

UPSMON PRO V.2.54

Monitoring Software USER MANUAL

Table of Contents

| Section | Page |
|-----------------------------------|------|
| 1. Overview | 3 |
| 2. UPS Connection | 4 |
| 3. Shutdown Configuration | 5 |
| 4. Email Notification | 6 |
| 5. UPS Control | 7 |
| 6. Historical Event | 8 |
| 7. Record Viewer | 8 |
| 8. Outlets Control | 9 |
| 9. UPS Schedule | 9 |
| 10. Multi OS Connect and Shutdown | 11 |
| 11. Web Portal | 13 |
| 12. Windows Auto Startup | 14 |
| 13. VMWare Support | 15 |

Section 1 - Overview

UPSMON PRO is compatible with the following windows:

1. Windows XP, Vista, 7, 8, and 10 (32-Bit and 64-Bit)

2. Windows Server 2000, 2003, 2008, 2012, 2016, and Hyper-V (32-Bit and 64-Bit)

NOTE: Administrator authority is necessary to execute windows shown here.



Section 2 – UPS Connection

To start the ups connection:

- 1. Connect Page
- 2. Choose the ups connecting interface:
 - a. USB Port
 - b. SNMP Card: Enter the SNMP card IP address
 - c. COM Port: The serial port cable is attached from the ups box

NOTE: The serial port cable is not suitable from the others.

d. UPSMON PRO: Enter the UPSMON PRO computer IP address

| • USB | |
|--------------|-----------------|
| C SNMP Card | 192.168.001.254 |
| C COM Port | 1 |
| C UPSMON PRO | 192.168.001.001 |

3. You should successfully see the UPS monitoring screens below:

| WIND PRO V2.4 | to Bac | | × |
|-----------------------------------|----------------------------|------------|-------|
| Power Source Battery Capacity | Load Level | UPSMON | PRO |
| Monitor System | Power Status | AC Utility | Power |
| Current Status | Input Voltage | 109 | (V) |
| UPS Event Log | Output Voltage | 109 | (V) |
| UPS Data Log | Input Frequency | 60 | (Hz) |
| UPS Connect | Battery Status | Normal | |
| Shutdown Setup | Battery Capacity | 100 | (%) |
| Email Notification UPS Control | Est. Backup Time | 270 | (Min) |
| UPS Schedule | UPS Status | ON-Line | |
| Outlet Control | UPS Load | 33 | (%) |
| terp and support | UPS Temperature | 31 | (C) |
| | The UPS is working normall | ly | |

| M UPSMON PRO V2.4 | | | _ | |
|-------------------|------------------|---------------------------|------------|-------|
| Power Source | Battery Capacity | Load Level | UPSMON | PRO |
| Monitor S | ystem | Power Status | Battery Po | ower |
| Current St | atus 🦌 | Input Voltage | 0 | (V) |
| UPS Even | t Log | Output Voltage | 110 | (V) |
| UPS Data | Log | Input Frequency | 0 | (Hz) |
| UPS Com | nect (| Battery Status | Discharge | |
| Shutdown | Setup | Battery Capacity | 99 | (%) |
| Email Not | ification | Est. Backup Time | 269 | (Min) |
| UPS Sche | dule | UPS Status | ON-Line | |
| Outlet Co | ntrol | UPS Load | 38 | (%) |
| Help and S | upport | UPS Temperature | 31 | (C) |
| | П | he UPS is working on batt | ery | |

Section 3 - Shutdown Configuration

How to shutdown windows and UPS when power failure occurs:

1. Run Time Page

| 🗷 Power failure windows shutdown delay (Sec) | | 300 | • | (b1) |
|---|-----------|------------|---|--------------------|
| Battery limited capacity shutdown (%) | | 30 | - | (b2) |
| ☑ Low battery shutdown (b3) | | | | |
| Execute Command File (d) | | | | |
| C:\Documents and Settings\Owne | | | | |
| Time to excute command file (sec) | | 60 | • | |
| | | | | |
| 🗖 Shutdown VMware Esxi | | Setup | | |
| Shutdown VMware Esxi Windows Shutdown type | Shut down | Setup | • | (a) |
| Shutdown VMware Esxi Windows Shutdown type UPS shutdown delay (Min) | Shut down | Setup 2 | • | (a) (c) |
| Shutdown VMware Esxi Windows Shutdown type UPS shutdown delay (Min) UPS start delay time (sec) | Shut down | Setur 2 | • | (a) (c) (e1) |

2. Windows Shutdown Type (a)

- a. None: No reaction for windows even blackout condition
- b. Shutdown: Running out of the procedures to save the programs to hard disk
- c. **Hibernate:** Power-saving state, puts open documents and programs on hard disk
- 3. Power Failure Windows Shutdown Delay (b1): After this period of time runs out, windows start to shutdown.

Battery Limited Capacity Shutdown (b2): Once the battery is declining to this level, windows start to shutdown.

Low Battery Shutdown (b3): If the battery is low, the windows shutdown.

If any of the (b1,2,3) item-conditions are fulfilled, UPSMON will shutdown windows or hibernate.

4. UPS Shutdown Delay (c): Duration to completely shutdown the computer.



5. Execute Command File (d): when (b1) seconds runs out, UPSMON will start to act your designated command.

a. **Time to Execute Command File:** The command has a few more seconds to run before the UPSMON commits to shutdown windows.

6. UPS Start Delay Time (e1): To charge more power, the UPS will delay its power supply.

UPS start battery capacity (e2): To charge more power, the UPS will supply power when the battery reaches this capacity %

Only when both (e1, 2) item-conditions are fulfilled, the UPS will supply power.

Section 4 – Email Notification

To deliver an active email notification:

1. Notification Page

2. Enter your SMTP Mail server information

(ex: SMTP Server, Username, Port, Authentication, Sender's mail, Receiver's mail)

NOTE: This feature requires your e-mail account support SMTP Server

- 3. Mail Test: Test the email configuration.
- 4. Daily Report: Sends a daily report summary of the UPS output power (Watts).

| SMTP Server | User Nan | ne |
|----------------------------|-------------------------|---------------|
| Using Secure Password | d Authentication | ********* |
| Port 465 🚔 | • Table Format | O Text Format |
| Sender E-Mail Address | | |
| Send To | info@marathon-power.com | |
| Mail Test | Daily Report | |
| Popup Message Notification | tion | |

Section 5 – UPS Control

1. UPS Control Page

| Battery Test Function | |
|--------------------------------|----------------|
| Quick Battery Test | ▼ 30 € Execute |
| UPS Function Setting | |
| Manual Bypass | - |
| Parameter | |
| OFF | ▼ Execute |
| 🗆 Enable Green Mode | |
| 💿 Green Mode ON | |
| 🕫 Green Mode OFF | |
| Enable Power Failure UPS Sound | |
| Sound ON | |
| Sound OFF | |
| Sound OFF | |
| From 上午 10:00:0 - To | 下午 08:00:0 |

2. Battery Test Function

- a. Quick Battery Test: UPS switch its power from battery.
- b. Battery Test for Specific Time: Exhaust battery power for this period of time.
- c. Test for Specific Battery Level: Exhaust battery capacity to this battery level.
- d. Deep Battery Test: Exhaust battery to low condition.
- e. Cancel Test: Stop battery testing
- **3. UPS Function Setting:** Select the UPS function. Select the corresponding parameter options. Press Execute to set the selected function.
- Green Mode:
 ON: The UPS automatically turns off power if the load is low.
 OFF: UPS will sustain the power to its limit.
- 5. Power Failure UPS Sound: Turn alarm on or off as needed.

Section 6 – Historical Event

| Event Date Ti | ime | Event Description | |
|---------------|----------|------------------------|--|
| 2017/6/13 | 03:37:49 | UPS Shutdown | |
| 2017/6/13 | 03:35:49 | System Shutdown | |
| 2017/6/13 | 03:31:28 | Connection Error | |
| 2017/6/13 | 03:30:51 | Power Failure | |
| 2017/6/13 | 03:23:31 | UPS Bypass Recover | |
| 2017/6/13 | 03:22:35 | UPS Bypass | |
| 2017/6/13 | 02:49:26 | Pro Connection Restore | |
| 2017/6/13 | 02:39:01 | Pro Connection Error | |
| 2017/6/13 | 02:09:31 | UPS Bypass Recover | |
| 2017/6/13 | 02:09:12 | UPS Bypass | |
| 2017/6/13 | 02:08:54 | Power Restore | |
| 2017/6/13 | 02:08:33 | Power Failure | |
| 2017/6/13 | 02:08:12 | Battery Normal | |
| 2017/6/13 | 02:08:01 | UPS Self Test | |
| 2017/6/13 | 02:07:43 | Battery Normal | |

Displays all UPS events that have taken place.

Section 7 – Record Viewer

Record Viewer Page

Records and actively shows UPS information: I/P Voltage, I/P Frequency, O/P Voltage, Battery Level, Load, and Temperature.

Check up the historical data by calendar (Upper Right Corner).



Section 8 – Outlets Control

- 1. Outlets Control Page
- 2. Turn ON/OFF the outlets power at once.
- 3. Set up the UPS-Outlet shutdown sequence for blackout condition.

NOTE: This feature requires the specific UPS to support.

| • | Enable Outlet Co | ontrol | | | | |
|---|---------------------|--------------------|---------------|-------|-----|----------|
| | Outlet 1 | N - | Outlet 2 | OFF 🗸 | | |
| | Master Outlet | Outlet 1 | • | | | |
| ſ | -Slave Outlet Setti | ng | | | | |
| | 🗆 Power failure ' | windows shutdown | n delay (Sec) | | 300 | • |
| | 🗆 Battery limited | l capacity shutdow | n (%) | | 30 | - |
| | 🗆 Low battery sl | hutdown | | | | |
| | UPS shutdown | n delay (Min) | | | 2 | - |

Section 9 – UPS Schedule

Supports automatic UPS OFF / ON / Battery self-test.

- 1. Schedule Page
- 2. Recurrence & Occurrences: Once / Daily / Weekly / Monthly
- 3. Event: UPS shutdown / ups start / battery test

| \triangleleft | | 2017 | | | | | | | |
|-----------------|--|-------------|------------|----------|-------|---------|-----------|---------|----------|
| Sunda | y Mond | ay Tues | day | Wednesda | y 1 | Thursda | y F | riday | Saturday |
| | | | | | | 1 | | 2 | 3 |
| 4 | 5 | E | 5 | 7 | | 8 | | 9 | 10 |
| 11 | 12 | 1 | 3 | 14 | | 15 | | 16 | 17 |
| 18 | 19 | 2 | 0 | 21 | | 22 | | 23 | 24 |
| 25 | 26 | 2 | 7 | 28 | | 29 | | 30 | |
| | | | | | | | | | |
| Recurren | Recurrence Occurrences Event1 Time1 Event2 Time2 | | | | | | | | |
| Daily | • Every da | | or 5 Shala | 13 | ,00 | 0133 | | 108.00 | |
| NO. | Recurrence | Occurrences | Event | :1 | Time1 | | Event2 | Tir | ne2 |
| 1 | Daily | Every day | UPS S | Shutdow | 19:00 | | UPS Start | ted 08: | 00 |

4. In UPS shutdown, all the UPSMON-Slaves will execute OS shutdown 30 seconds before UPSMON-Master.

NOTE: UPS shutdown must be before UPS start.

5. Check the last UPS schedule for the current status.



6. Monthly example: Monthly recurrent schedule.



- a. Will shut down windows and UPS output power at 20:00 every 7th
- b. Starts UPS output power at 07:00 every 10th
- c. Will shut down windows and UPS output power at 20:00 every 14th
- d. Starts UPS output power at 07:00 every 17th



Section 10 - Multi OS Connect and Shutdown

The UPSMON PRO can play the role as Master or Slave.

1. UPSMON PRO Master: Connect (RS232 / USB) with UPS

==> Master can share UPS information to other Slaves

==> EX: IP 10.192.136.231 (Master PC IP address)

2. UPSMON PRO Slave: Get the UPS information from UPSMON PRO Master via internet or intranet.

==> Other PC's with UPSMON PRO installed, can receive the UPS status from UPSMON PRO Master.

EX: UPSMON PRO Windows / Connect Page / UPSMON PRO: 10.192.136.231



The UPS is connected.

| or Winde | ows ¥2.3 | | | |
|--------------------------------|------------------|----------------------------|------------|-------|
| Fower Source | Battery Capacity | | PSMON | PRO |
| Monitor Syst | em 🚫 | Power Status | AC Utility | Power |
| Current Status | 5 | Input Voltage | 106 | (V) |
| Historical Eve Record Views | nt 🦻 🦻 | Output Voltage | 120 | (V) |
| Configuration | 1 🚺 | Battery status | Normal | |
| Connect Run Time | | Remaining battery capacity | 100 | (%) |
| Notification | | Est. Battery Backup Time | 229 | (Min) |
| UPS Control UPS Schedul | | UPS Status | ON-Line | |
| Outlet Contro | | UPS load | 5 | (%) |
| Help and Sup | port | UPS temperature | 27 | (C) |
| | The | UPS is working normally | | |

EX: UPSMON PRO Linux

==> Execute the UPSMON-PRO-for-Linux application: ./upsmon

==> Choose UPSMON-PRO (4) with Master IP address

==> UPSMON: Start Monitor ==> Connection is successful



Section 11 – Web Portal

UPS remotely monitoring via browser.

- 1. Connect Page
- 2. Enable Web Server UPSMON Function
- 3. IP Address: Make sure this Windows has a IP address (ex: 10.192.136.231)
- 4. Port: 8000 (default)
- 5. Username: UPSMON (default)
- 6. Password: UPSMON (default)

NOTE: This feature requires windows with a connectable IP address.

.....

0K

Cancel

| 🕒 UPSMON PRO WEE | × |
|------------------|----------------------|
| ← → C ⋒ | 10.192.136.231:8000 |
| UPSMON PRO | O WEB |
| | |
| Please enter Use | r Name and Password. |
| User Name | LIPSMON |
| | |
| Password | |



Section 12 - Windows Auto Startup

Below configuration will assist with auto startup windows when power is restored.

- 1. PC Restart
- 2. When the PC brand logo screen appears, press correct key on your keyboard to open to the BIOS Setup window (For general PCs, press the delete key)
- 3. Use arrow keys on the keyboard to select the correct power option
- 4. Select the correct setting to enable PC power always on. For general PCs, use your arrow keys to Enable "Restore on AC Power Loss"
- 5. Save your changes

NOTE: Each PC varies in how to enter and make changes to the BIOS settings.

Section 13 – VMWare Support



ESXi Server (EX : IP 210.202.53.149)

Get UPS Monitoring On VMWare-Windows

1. VMWare-Windows UPSMON get UPS connection from USB

==> Start VMWare ESXi

==> VMWare-Windows >> Actions >> Edit settings

==> Add other device >> USB device >> Powercom HID UPS Battery >> Save

| 🚰 Console 🗮 Monitor | Power on | Actions Win7Eng Couper Coup |
|---|--|---|
| General Information | wieZTeet EC | 🤹 Export |
| > 👷 Networking | Installed and running | 🤯 Edit settings |
| P marker invale | | B Decetioniene Edit |
| Storage Notes | 1 disk | Edit notes Rename |
| Storage Notes Performance summary las | 1 disk Edit notes t hour Consumed host CPU Ready Consumed host memory | Fermissions Edit notes Answer question Durregister Control |
| Performance summary las | 1 disk | Image: Second |

| Add hard disk 🛤 Add networ | k adapter | Add other device | | |
|----------------------------|-----------|--------------------------------------|-----|-----------|
| CPU | 1 | CD/DVD drive Flocey drive | | |
| Memory | 254 | Senal port | - | |
| Hard disk 1 | 50 | Parallel port | | G |
| SCSI Controller 0 | LSI | USB controller | • | c |
| SATA Controller 0 | 10 | Sound USB device | | 6 |
| B USB controller 1 | USE | PCI device | * | |
| Network Adapter 1 | VM | SCSI controller | • 2 | Connect C |
| Mdeo Card | Spe | SATA controller | • | |
| USB Device 1 | Pow | ercom HID UPS Battery | * | C |

2. VMWare-Windows install UPSMON PRO and choose **USB** connection.

| 📕 Win7Eng | | 🖓 🖓 🔤 🙀 🖨 Actions 🚳 |
|---|--|-------------------------------------|
| Recycle Bin M UPSMON PRO for Windows V2.3 | | |
| VMware vsphene Power Source Battery VMware vsphene Monitor System SDEssi Monitor System SDEssi Historical Event SDEssi Record Viewer Configuration Connect Run Time Notification UPS Control Schedule Multi-Outlets Multi-Outlets | Capacity Load Level © USB © SNMP Card © SNMP Card 192.168.001.254 © COM Port 1 © UPSMON PRO 192.168.001.001 © Web Server UPSMON Function Port Port 8000 User Name UPSMON Password UPSMON APP Control Password UPSMON | 210.202.53.151 |
| | The UPS is working normally | |
| (3) (2) (2) (2)(3) (2) (2)<!--</td--><td></td><td>▲ 133 PM ▲ 133 PM ▲ 133 PM ▲ 133 PM</td> | | ▲ 133 PM ▲ 133 PM ▲ 133 PM ▲ 133 PM |

| 👫 UPSMON PRO for Windo | ws ¥2.3 | | | |
|---------------------------------|------------------|----------------------------|------------|-------|
| Power Source | Battery Capacity | Load Level | SMON | PRO |
| Monitor Syste | em 🚫 | Power Status | AC Utility | Power |
| Current Status | 5 | Input Voltage | 114 | (V) |
| Historical Even Record Viewe | ut 🦻 🌾 | Output Voltage | 120 | (V) |
| Configuration | | Battery status | Normal | |
| Connect Run Time | | Remaining battery capacity | 100 | (%) |
| Notification | | Est. Battery Backup Time | 229 | (Min) |
| UPS Control UPS Schedule | | UPS Status | ON-Line | |
| Outlet Control | | UPS load | 8 | (%) |
| Help and Supp | oort 👃 | UPS temperature | 30 | (C) |
| | The | e UPS is working normally | | |

3. Successfully get UPS monitoring

4. UPSMON PRO >> Run Time >> Shutdown VMWare Esxi (Enable) >> Setup

🔽 Shutdown VMware Esxi

Setup

5. Filled in your VMWare Exsi IP / Username (administrator) / Password



VMWare OS Shutdown With Sequence Configuration



- 1. Install VMWare vSphere Client
- 2. Start VMWare vSphere Client and login to the VMWare Esxi

| 🕖 VMware vSphere Client | × |
|---|---|
| Vmware [*] | P |
| Client | |
| All VSphere features available only throug vSphere Client will o feature set as vSphe To directly manage a sing To manage multiple hosts, vCenter Server. | i introduced in vSphere 5.5 and beyond are gh the vSphere Web Client. The traditional ontinue to operate, supporting the same ere 5.0. le host, enter the IP address or host name. , enter the IP address or name of a |
| voenter server. | |
| IP address / Name: | 210.202.53.149 |
| User name: | root |
| Password: | ******** |
| | Use Windows session credentials |

3. VMWare host >> Software >> Virtual Machine Startup / Shutdown >> Properties

| 💋 210.202.53.149 - vSphere | Client | | | | | į | |
|--------------------------------|--|--|---|--|--|--|--|
| <u>File Edit View Inventor</u> | y <u>A</u> dministration <u>P</u> lug-ins <u>H</u> elp | | | | | | |
| 🖸 🖸 🛃 Home | 🕨 🚮 Inventory 👂 🎁 Inventory | | | | | | |
| r e | | | | | | | |
| □ □ 210.202.53.149 | localhost.UPS VMware ESXi, 6.5.0, 531 | 0538 | | | | | |
| LinuxUbuntu | Getting Started Summary Virtual Mac | chines Res | ource Allocation Perfor | mance Conf | iguration User: | s Events P | ermissions |
| UPS VMA TEST | Hardware | Virtua | Machine Startup and | Shutdown | | [| Properties |
| Win2012Eng Win2016Eng | Health Status Processors Memory | Start Defa Defa Startu | and Stop Virtual Machin ult Startup Delay ult Shutdown Delay 10 Order | es with the sy | stem E 1 1 | Enabled 10 seconds 15 seconds | |
| | Networking | Order | Virtual Machine | Startup | Startup Delay | Shutdown | Shutdown Del |
| | Storage Adapters Network Adapters Advanced Settings Power Management | Autom 1 2 3 4 | Hatic Startup UPS VMA TEST Win7Eng LinuxUbuntu LinuxSuse | Enabled Enabled Enabled Enabled | 10 seconds 10 seconds 10 seconds 10 seconds | Suspend Suspend Suspend Suspend | 15 seconds 15 seconds 15 seconds 15 seconds |
| | Software | 5 | 🛅 Win2012Eng | Enabled | 10 seconds | Suspend | 15 seconds |
| | Licensed Features Time Configuration DNS and Routing Authentication Services Virtual Machine Startup/Shutdown Virtual Machine Swapfile Location | 6 | Win2016Eng | Enabled | 10 seconds | Suspend | 15 seconds |

4. This window allows setup:

shutdown type / shutdown delay / shutdown order / startup order

| For each | Startu h virtu | p Delay al machine, delay sta | rtup for: | | -Default Sl | hutdown Delay — virtual machine, dela | ay shutdown for: | |
|----------------------------|-------------------|---|-------------------------------|--|--------------------|--|--------------------------|---------------|
| 10 □ Co | s ntinue | econds immediately if the VM | /ware Tools st | tart | 60 Shutdov | seconds | Suspend | 2 |
| artup wer on Order | Order the sp | ecified virtual machir ial Machine | nes when the s | system starts. Durir | ng shutdown, | they will be stopped | d in the opposite order. | |
| Auton | atic | startup | Juniap | 1 | Shoree Hin | 2 | Me | well |
| | 田 | Win2016Eng | Enabled | 10 seconds | Suspend | 120 seconds | | <u>9</u> |
| 1 | - | Win2012Eng | Enabled | 10 seconds | Suspend | 120 seconds | E Mov | e <u>D</u> ov |
| 1 2 | 山 | | Enabled | 10 seconds | Suspend | 60 seconds | | Alter South |
| 1 2 3 | 日日 | LinuxSuse | | NAME AND ADDRESS OF TAXABLE PARTY. | Suspend | 60 seconds | | un craa |
| 1 2 3 4 | 999 9 | LinuxSuse LinuxUbuntu | Enabled | 10 seconds | Juspein | 000000000000000000000000000000000000000 | | |
| 1 2 3 4 5 | 9999 | LinuxSuse LinuxUbuntu UPS VMA TEST | Enabled Enabled | 10 seconds 10 seconds | Suspend | 15 seconds | | |
| 1 2 3 4 5 6 | 99999 | LinuxSuse LinuxUbuntu UPS VMA TEST Win7Eng | Enabled Enabled Enabled | 10 seconds 10 seconds 10 seconds | Suspend Suspend | 15 seconds 15 seconds | | |

Ex: Above example: Win7Eng shutdown first / Win2016Eng shutdown last

5. Power failure and the VMWare shutdown as sequence

| <u>File Edit View</u> Inventory | Administration Plug | j-ins <u>H</u> elp | | | | |
|---------------------------------|---------------------|--------------------|---------|--------------|----------------------|----------------------|
| Name | Target | Status | Details | Initiated by | Requested Start Ti 💬 | Start Time |
| Suspend virtual machi | Win2016Eng | 22% |) | root | 6/16/2017 9:38:30 PM | 6/16/2017 9:38:30 PM |
| Suspend virtual machi | 🔂 Win2012Eng | 62% |) | root | 6/16/2017 9:38:15 PM | 6/16/2017 9:38:15 PM |
| Suspend virtual machi | 🗗 LinuxSuse | 45% |) | root | 6/16/2017 9:38:00 PM | 6/16/2017 9:38:00 PM |
| Suspend virtual machi | 🗗 LinuxUbuntu | Completed | | root | 6/16/2017 9:37:46 PM | 6/16/2017 9:37:46 PM |
| Suspend virtual machi | DUPS VMA TEST | Completed | | root | 6/16/2017 9:37:31 PM | 6/16/2017 9:37:31 PM |
| Suspend virtual machi | 🔂 Win7Eng | Completed | | root | 6/16/2017 9:37:16 PM | 6/16/2017 9:37:16 PM |
| Auto power Off | 210.202.53.149 | Completed | | root | 6/16/2017 9:37:16 PM | 6/16/2017 9:37:16 PM |
| Initiate host shutdown | 210.202.53.149 | Completed | | root | 6/16/2017 9:37:16 PM | 6/16/2017 9:37:16 PM |



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