

# PowerManager II

Uninterruptible Power Supply Software User's Manual

Surport:

MS-Windows<sup>®</sup> 98 MS-Windows<sup>®</sup> NT MS-Windows<sup>®</sup> 2000 MS-Windows<sup>®</sup> 2003 MS-Windows<sup>®</sup> 2003 MS-Windows<sup>®</sup> Vista SCO Unix LINUX FreeBSD

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**TECHNICAL SUPPORT** 

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Introduction	4
Packing including	5
Powermanager II operation manual	5
System requirements	5
PowerManager II for Windows	6
Featuresa	6
Software Installation	7
Start-up and Quit Powermanager II	.12
Sytem Settings	.14
A.Base setting	14
B.Shutdown settings	.18
C.Crisis process	.19
D.History data saving setting	.22
BP Alarm	.23
Broadcast alarm	.25
Email	.26
SMS	.28
Sound	29
Telephone Voice	.30
Windows	31
Check History Event	.33
Check History Data	.34
Check curve map	.38
Check State Map	.39
UPS Control	.48
PowerManager II for LINUX	.51
1.Software installation and operation	.51
2.software package	.52
PowerManager II for SCO UNIX	.53
1.Software installation and operation	.53
2.software package	.54
PowerManager II for FreeBSD	.55
1.Software installation and operation	.55
2.software package	.56
3.contact us and technical support	.56



# Introduction

PowermanagerII is smart UPS monitoring and control software. It offers local monitoring and network agent monitoring functions through the COM port and USB port. PowermanagerII displays the real time status of the UPS (e.g. input & output voltage, frequency, load, temperature and battery

capacity) in numeric and graphic forms, which can help the user monitor the quality of power supply. Simultaneously, the user can remotely monitor the UPS via a network and manage the power system more effectively. In AC failure or UPS battery low cases PowermanagerII will perform its monitoring functions automatically. In addition to auto saving files and performing safe system shutdown, PowermanagerII has some new ways to send warning messages by auto dialing a modem and by sending E-mail. Users can be sure not to lose any information due to power interruptions and can take appropriate actions at once. The system can record UPS performance history data for long term monitoring. In addition, PowermanagerII has a new Windows NT service function, which allows the monitoring program to be executed automatically and does not require a user to be logged in. PowermanagerII is available in many

languages, you can select the one that is the most familiar for you to carry out the software configuration and operation.

Today, with the widespread use of the internet, we have come to a time where information is critical. Both PCs and Servers are used to receive and send information round the clock, so automated power management equipment for the UPS has become a necessity PowermanagerII with its full range of functions will be the best partner for your smart UPS.



# Packing including

Powermanager II Installation CD 1pcs DB9F/DB9M cable 1pcs

## Powermanager II operation manual System requirements

Powermanager II hardware and software requirements as follows: Computer system RS232 communication port Adopt real RS-232 communication intelligent

> for MS-Windows<sup>®</sup> 98 MS-Windows<sup>®</sup> Me MS-Windows<sup>®</sup> 2000 MS-Windows<sup>®</sup> 2003 MS-Windows<sup>®</sup> 2003 MS-Windows<sup>®</sup> Vista SCO Unix LINUX



# PowerManager II for Windows

#### **Featuresa**

- uIntuitionistic and clarity display pressure , frequency, load , batteries of UPS etc diversified parameter real time fettle communication as data and figure,
  - help users know circs of currently electric power accommodate

uSupporting Windows NT Service function.

uSupporting many kinds of languages.

uTransmitting the warning message by e-mail automatically.

uCalling the warning message automatically.

uMonitoring UPS remotely via TCPIP or Internet.

uDetecting the AC fail and the UPS battery low automatically.

uSetting the turning on/off time automatically.

uDisplaying the UPS status in drawing, such as the

temperature, voltage, load, line frequency etc.

uBroadcasting the warning message.

uPop-up alarm message on the computer with Windows OS through Windows

NT Messenger service.

uCan select save application files before shutdown system or let computer enter sleep mode directly (need the computer support this function) uAuto send alarm message via GSM SMS.

uAuto send alarm message via BP-call.

uAuto send alarm voice to via telephone. uSeamless connect to controlplane, realize nobody on duty.

uSetting the countdown time and the interval of each warning.

uSetting UPS diagnostic and self testing time.

uBefore removing the system, automatically close and

store the applicable programs.

uRecording and analyzing the UPS status



# Software Installation

Following the steps below:

1. Turn on UPS and PC.

2. Place the Powermanager II CD to the CD ROM, will show the install interface:

2.1>Button 'Introduce' is the default interface is introduce the CD include:

PowerManager					
Introduce	PowerManagerII CD include:				
Readme	1. PowerManager II for Windows (Ver3.4)				
	2. PowerManager II(V1.0) for Linux				
Install	3. Powermanager II(V1.0) for SCO Unix				
	4. Powermanager II(V1.0) for FreeBSD				
About	5. User's manual				
RC-CD04-001 Copy	right (C) 2006 Richcomm Corporation				

2.2>Button 'Readme' is the CD is support system and Language:



	Pow	erManager
	***** Installation ?	****
Introduce	This product include som Chinese(Simplified), Chinese(7	e version as follows: Fraditional),
	English ,French,German,Italia	n,polish, Spanish
	*** Operating Syste	m support ***
Readme	MS-Windows 98	(RS232/USB)
	<ul> <li>MS-Windows Me</li> <li>MS-Windows NT</li> </ul>	(RS232/USB) (RS232 Only)
	<ul> <li>MS-Windows 2000</li> </ul>	(RS232/USB)
Install	<ul> <li>MS-Windows XP</li> <li>MS-Windows 2003</li> </ul>	(RS232/USB) (RS232/USB)
	MS-Windows Vista	(RS232/USB)
About	Linux	(RS232/USB)
About	<ul> <li>SCO Unix</li> <li>FreeBSD</li> </ul>	(RS232 Only) (RS232 Only)
	000	1 Chi Marker Thank
		Exit
RC-CD04-001 Copt	vright (C) 2006 Richcomm Corpo	pration

#### 2.3>Button 'Install' is setup the PowerManagerII



following the install wizard



Customer Information       Image: Customer Information.         Please enter your information.       Image: Customer Information.         Please enter your parse, the parse of the company for where you work, and the product
Please enter your minimation.
Please enter your name, the name of the company for whom you work and the product
scrial number.
User Name:
xp_udako
Company Name:
richcomm
Serial Number:
Install5hield -
K Back Next > Cancel

on the serial number input box please enter the serial number which is on the cd packet and following the install wizard continue to next, make sure the setup dir and continue to enter the language which you will to install, After installation,

Powermanager II files will be copied into the directory you appointed.

InstallShield Wizard	<u>×</u>
<b>Customer Information</b> Please enter your information.	
Please enter your name, the name of the company for whom y serial number.	ou work and the product
User Name:	
xp_Jidak.o	
Company Name:	
richcomm	
Serial Number:	
PM-0ed90-054a0-0dca0-076e0	
Install5hreld	
< Back	Next > Cancel



InstallShield Wizard			×
Choose Destination Location Select folder where Setup will install files.			
Setup will install PowerManagerII in the following	g folder.		
To install to this folder, click Next. To install to a another folder.	different folder.	olick Browse an	d select
Destination Folder C:\Program Files\richcomm\PowerManagerII		L	Drowse
Installahield	< Back	Next >	Cancel
InstallShield Wizard			×
Select Components Select the options you want to install.			
Select the components you want to install, clea	r the componen	ts you do not wai	nt to install.
<ul> <li>✓ English</li> <li>Chinese(Simplified)</li> <li>Chinese(Traditional)</li> <li>French</li> <li>German</li> <li>Italian</li> <li>Japanese</li> <li>Portuguese</li> <li>Spanish</li> </ul>			
Installähield	< Back	Noxt>	Cancol





2.4>Button 'About' is PowerManagerII development 'Welcome'





#### Start-up and Quit Powermanager II

Start-up Powermanager II

After installation, please restart the computer. For Windows98, check if there is a 'PowerManagerII' icon in task bar. For Windows NT, go to 'control panel->service' and check if 'PowerManagerII' service has started. If you want to change the function configuration, please run the Powermanager II in the task bar directly or select " Powermanager II for Windows" from " Powermanager II " in program group of start menu in Windows.



Powermanager II in gear

Powermanager II un-start up or not on line

#### Quit Powermanager II

After installation, there is 4 selection as below under" Powermanager II " in Windows start menu. If you want to remove the Powermanager II from the system, please select " Quit ".



Start Monitor( <u>W</u> )	Ctrl+₩
Help( <u>H</u> )	Ctrl+H
About( <u>A</u> )	Ctrl+A
Quit( <u>Q</u> )	Ctrl+Q

## Description

#### The main interface window of PowerManager II



- (1) menu bar
- (2) UPS status chart
- (3) UPS warn parameter display area



# **Sytem Settings**

#### A. Basic Setting

After clicking on system setting, enter the following interface :



This is to configure the mode of monitoring UPS

1:Default activate "Local UPS", and can choose "AUTO", "COM", "USB"





a: Choose "AUTO", it will automatically search for communication mode with UPS

b: Choose "USB", it will only search for communication mode between USB and UPS after choosing USB port, network monitor authorization can be activated

Network monitoring function: one UPS can be monitored by multi computer and protect multi computers against crisis

Network Monitoring condition: computers need monitoring must be installed by our software and choose

long-distance UPS in basic setting

The PowerManager II under monitoring must be USB communicated



- 1	cong   crisis ire	cess   Saved Settin
← Local UPS	USB	▼ Testing
🔽 Authorization:	*****	
C Remote UPS		
IP:	172 . 16 . 0	.130 search
12		
Authorization :	richcomm	

c: Choose "COM", it will only search for communication mode between COM and UPS need to choose correct COM, or it will not be communicated

C Local UPS	COM2	Testing
🔽 Authorization	****	
Your UPS can not use the serial po use the USB port.	be monitored by remote comp ort to connect it.If you war	outer when you at to do it,
IP:	172 . 16 . 0 . 130	search
Authorization :	richcomm	

2: "testing", after choosing interface, click on "testing" we can test the communication mode to see if communication is normal.

3: "long-distance UPS", it's non-LAN UPS being activated and input IP address for the computer that has PowerManager II installed and is under monitoring. or click "search", all IP addresses for computers that have PowerManager II installed can be listed up so you can choose



one in need of being monitored; After "authorization", the text must be same as the one authorized by monitored PowerManager II network, or could be failed to monitor

C Local UPS	COM2 T	esting
Authorization	*****	
use the serial por use the USB port.	rt to connect it. If you want to	) do it,
IP:	172 . 16 . 0 . 130 se	earch
Authorization :	richcomm	
- Auda adama Remai	Monagor III when login system	

4: After "Start PowerManager II when log in WINDOWS" being activated, the monitoring interface can be automatically opened after computer started and remind you to start this software's services at the same time;



Cocal WPS	AUTO  Testing
🗖 Authorization	****
Your VPS can not be use the serial port use the VSB port.	e monitored by remote computer when you to connect it.If you want to do it,
IP:	172 . 16 . 0 .130
Authorization :	richcomm

it enters the main monitoring interface after confirm:

(this interface will not appear if PowerManager II service is started automatically and as defaulted)

Powe	rlanag	er			×
The	service	is not	running,	start	it?
	(	E )	取消		

#### B.Shutdown settings Choose shutdown setting and enter interface as below:





1, self-saving function (activate it as advice)

1) when set this function valid, software will save some files under operating when system is shut down

2) when set this function invalid, software will not save files under operating when system is shut down

2 shut down UPS at the same time and shut down UPS in X minutes

( please set shutdown time according to UPS's power supply time and computer shutdown time)

when set it valid, UPS will shut down in X minutes when system is closed
 when set it invalid, UPS will not shut down when system is closed

3 showing file-saving when starting

1) when set it valid, there will be a window popped up and tell where the saved files are and the last program closed upon starting the software

2) When set it invalid, there will not be a window popped up telling where the saved files are upon starting the software.

4 External program execution before shut down: after choosing, software will carry out program set by user before the system is shut down

**C.Crisis process** 



1) Choose to close computer

System Setting		×
Base Setting   Shutdown Setting Crisis Process	Saved	settings () >
Shutdown System		
Sleep (need Windows 2000 or above)		
🔽 When AC failure Keep on	1	Mins
🔽 When Battery Volt low Keep on	2	Mins
🔽 When UPS Bypass Keep on	2	Mins
🔽 When UPS Overheat(>65) Keep on	2	Mins
🔽 When UPS Overload(>100%) Keep on	2	Mins
🔽 When UPS Failure Keep on	2	Mins
🔽 When UPS Disconnect Keep on	2	Mins
T When UPS will turnoff Keep on	2	Mins
	2 1	
UA	et	

Please activate the parameters if need to close and protect computer when alarming; if not, please don't activate;

When city power is cut, battery voltage is low, UPS bypass, UPS is overheated, UPS is overloaded,

UPS is malfunctioned, UPS is disconnected, UPS is turned off etc, this software will count down before turned off.

Now we take UPS was disconnected and execute in 2 minutes as example, i.e. the countdown frame will appear when UPS is disconnected

UPS warning ,this computer will be shutdown
[DisConnected]System will be shutdown after 113 seconds
Do not shutdown this computer Hide

After 2 minutes countdown, will close all ongoing programs and computer

If click "refrain from turning off the PC automatically", it will not protect the computer

If click "hide", the countdown frame will not appear and computer will turn off automatically in 2 minutes



2) Choose sleep, please note "sleep" function can only be activated by Win2000 and UP system and

PC machine supports this function as well.

UPS Manager Expert

When city power is cut, battery voltage is low, UPS bypass, UPS is overheated, UPS is overloaded,

UPS is malfunctioned, UPS is disconnected, UPS is turned off etc, it will count down the sleep time.

Now we take UPS was disconnected and execute in 2 minutes as example, i.e. the countdown frame will appear when UPS is disconnected

Crisis Process Saved settings O or above) on 2 Mins 2 Mins	ystem Setting		
on 2 Mins ep on 2 Mins eep on 2 Mins eon 2 Mins en 2 Mins m 2 Mins m 2 Mins m 2 Mins	ase Setting   Shutdown Setting Crisis Process	Saved :	settings 4
on 1 Mins on 2 Mins 2 Mins 2 Mins 2 Mins eep on 2 Mins 2 Mins 2 Mins on 2 Mins	C Shutdown System		
on 2 Mins 2 Mins 2 Mins 2 Mins eep on 2 Mins 2 Mins 2 Mins on 2 Mins on 2 Mins	(* Sleep (need Windows 2000 or above)		
on 2 Mins 2 Mins ep on 2 Mins eep on 2 Mins 2 Mins on 2 Mins on 2 Mins	🔽 When AC failure Keep on	1	Mins
eep on 2 Mins eep on 2 Mins 2 Mins 2 Mins 2 Mins on 2 Mins o on 2 Mins	🔽 When Battery Volt low Keep on	2	Mins
eep on 2 Mins eep on 2 Mins 2 Mins 2 Mins on 2 Mins o on 2 Mins	🔽 When UPS Bypass Keep on	2	Mins
eep on 2 Mins 2 Mins on 2 Mins o on 2 Mins	🔽 When UPS Overheat(>65) Keep on	2	Mins
on 2 Mins on 2 Mins o on 2 Mins	🔽 When UPS Overload(>100%) Keep on	2	 Mins
on 2 Mins	🔽 When UPS Failure Keep on	2	 Mins
on 🛛 🖉 Mins	🔽 When UPS Disconnect Keep on	2	Mins
	🥅 When UPS will turnoff Keep on	2	Mins
	♥ When UPS Failure Keep on ♥ When UPS Disconnect Keep on ♥ When UPS will turnoff Keep on	μ μ μ	2 2

UPS warning ,this computer will be shu	ut down
[DisConnected]System will be shutdown after 1	119 seconds
Do not shutdown this computer	Hi de

If click "Refrain from turning off the PC automatically",

the countdown frame will disappear and the computer will not transfer to SLEEP status.

If click "hide", the countdown frame will disappear and enter "SLEEP" status in 2 minutes



#### History data saving setting

System Setting			×
Shutdown Setting   Cris	is Process (Sa	ved settings history	<u>+ +</u>
🔽 Record VPS hist	ory data		
Interval:	3600	Seconds	
OK	]	Cancel	

When set "whether save history data" as valid, software will save UPS history data at user's predefined interval (can set the interval as one hour or longer if no special need)

When set "whether save history data" as invalid, software will not save UPS history data



#### **BP** Alarm

Please start BP alarm function before use BP alarm

According to factual conditions, choose serial port in drop menu.

(this serial port should not conflict with UPS)

Alarm message, users themselves define the alarm code and alarm cancellation code For example: set "city power cut" by "123" and "alarm cancellation code" "456", BP machine will receive "123" message when city power is cut and will receive "456" when cancel alarm for city power cuthow to send alarm message, alarm code and alarm cancellation code to target?

Please refer to illustration as below

( please activate alarm function and set alarm code and alarm cancellation code before use BP alarm function)

arn parameter settin	g	
Pager BP Broadcast Email	SMS Sound	Telephone voice 🔳
🔽 Enable BP Call Warn	ing	
MODEM connected to :	COM2	
-Warning code		
Warningmessage	WarningCode	WarningCancelledCode
🔽 AC fail	123	456
I ■ Battery Volt low	1234	5678
└─ VPS Bypassed	0	0
🖵 VPS Overheat	0	0
T UPS Overload	0	0
T UPS Fail	0	0
T UPS disconnect	0	0
T WPS Testing	0	0
[		Cancel

Choose alarm receiver, please enter the interface as below



Туре	User	Contact	
			2

Click "add" as below:

'arn Mode:	BP Warning 🔽
/ser:	test
'ager Number:	8016
nfomation Code:	123

Choose alarm mode as BP alarm and complete others according to prompts

Click "add" as below:



Гуре	User	Contact	
P Warning	test	8016, 123	

Now, BP alarm is well added

#### Broadcast alarm

Please start network message alarming as below before using network broadcast alarming





Click "confirm" and when UPS status is changed software will send network message alarming according to the broadcast frequency set by user

When alarm is occurred, all computers in LAN and turned on messaging service will receive alarm as below( If broadcast frequency is set by N, will receive N windows like below when alarming)

信使	服务	×
从	HostName:QQ 到 2007-7-31 16:17:40 上 *	的消息
AC	Fail	
	(	

#### Email

#### Please start Email alarm function before using Email alarming

Please set correct SMTP address, Email address, users and password etc. How to send alarming message by Email to target? Refer to map as below:

'ager BP   Broadcast [Email	] SMS	Sound	Telephone	voice_
🔽 Enable E-mail warning	ş			
SMTP Server:	Г		_	
Send Email Address:	Γ		_	
SMTP Authentication	a			
User Name:				
Password:	-			

For example: if the sender's Email is test@163.com, please input as below:



Varn parameter settin	e 🛛 🛛
Pager BP   Broadcast Email ▼ Enable E-mail warning SMTP Server: Send Email Address: ▼ SMTP Authentication User Name: Password:	SMS   Sound   Telephone voice smtp. 163. com test@163. com test *****
OK	Cancel

Choose alarm receiver as below:

Туре	Vser	Contact	
<		100	13

Click "add" as below:



urn Mode.	Email Warning 💌
ser:	incept
ail Address:	incept@yahoo.com.c

Choose alarm mode by Email alarming and complete others according to prompts Click "add" as below

Гуре	User	Contact	
Mail Warning	incept	incept@yahoo.com.cn	

Now, Email alarming is well added

#### SMS

Please start SMS alarming function before using





Set GSM Modem serial port and set baud rate according to Modem parameters and set correct message center.

For example: the message center is +8613800200500

#### Sound

Please start sound alarm before using



BP   Broadcast   Email	SMS Sound Telephone voice	1
Enable sound warning		
Play Times 1		
ound files:		
Warning Infomation	Resource File	~
Battery Voltage Low	hatlowfaile way	
Battery Normal	batlowsucce way	
AC Input Failed	ntilfail way	
AC Normal	utilsucce way	
Remote IPS is sh	closenns way	
Remote UPS shutd	nocloseups way	
UPS Bypassed	bypass, way	_
UPS Inverter Normal	nobypass. way	
Overheated	tempfaile.wav	
Temperature Normal	tempsucce.wav	
Overloaded	overload. wav	
Load Normal	nooverload. wav	~
<		
	Modify	

According to sound frequency set by user, software will send corresponding alarm frequency when UPS status changed.

For example: when battery voltage is low, software will tell by speaker or other acoustics equipments connected with computer that "please note, UPS battery voltage is low now"

#### **Telephone Voice**

#### Please start telephone voice alarm before using



- Frahla Talarbara Wa		
oice Modem:		
ound Resource:		
Warning Infomation	Resource File	~
Battery Voltage Low	batlowfaile way	
Battery Normal	batlowsucce.wav	
AC Input Failed	utilfail.wav	
AC Normal	utilsucce.wav	
Remote VPS is sh	closeups. wav	
Remote VPS shutd	nocloseups. wav	
UPS Bypassed	bypass, wav	
UPS Inverter Normal	nobypass. wav	
Overheated	tempfaile.wav	
Temperature Normal	tempsucce.wav	222
Overloaded	overload wav	Y
<		

If there is voice Modem installed in system, please choose exact model in voice Modem; if no, please there is no exact model available in voice Modem

#### **Wi ndow**

Please start window alarm pop-up before using





When alarming, there will be dialogue box popped up as below

Closing this dialogue box, it will appears again when next alarm; minimizing it, it will not pop up when next alarm and you need to maximize it before reading it

Need to delete alarm message, please click "clear" and all alarm messages will be cleared up

Туре	N	Date	Datetime	From	Event	
🔺 ₩	0029	2007-7-31	16:10: 2	User:SYSTEM	UPS Bypass	
<b>]</b> I	0028	2007-7-31	16:10: 1	User:SYSTEM	VPS Test Completed	
DI	0027	2007-7-31	16: 9:36	User:SYSTEM	VPS Testing	
Ī1	0026	2007-7-31	16: 9:34	User:SYSTEM	UPS Normal	
🛕 W	0025	2007-7-31	16: 9: 9	User:SYSTEM	UPS Failure	
1)I	0024	2007-7-31	16: 9: 7	User:SYSTEM	Turn Off VPS Cancelled	
A W	0023	2007-7-31	16: 8:41	User:SYSTEM	WPS Turn Off	
①I	0022	2007-7-31	16: 8:36	User:SYSTEM	UPS Battery Normal	
A W	0021	2007-7-31	16: 8: 7	User:SYSTEM	UPS Battery Voltage Low	
1)I	0020	2007-7-31	16: 8: 3	User:SYSTEM	AC Resume	
A W	0019	2007-7-31	16: 7:29	User:SYSTEM	AC Fail	
1)I	0018	2007-7-31	16: 7:21	User:SYSTEM	VPS Connected	
A W	0017	2007-7-31	16: 6:30	User:SYSTEM	WPS DisConnected	
1)I	0016	2007-7-31	15:59:25	User:SYSTEM	AC Resume	
<b>D</b> I	0015	2007-7-31	15:59:25	User:SYSTEM	UPS Battery Normal	
DI	0014	2007-7-31	15:59:25	User:SYSTEM	UPS Inverter Normal	
DI	0013	2007-7-31	15:59:25	User:SYSTEM	Turn Off UPS Cancelled	
A W	0012	2007-7-31	15:59:22	User:SYSTEM	WPS Turn Off	
<						





#### **Check History Event**

Click history event record and enter

Filtrate Event level:	All Events 🔻	Date: f	from 2007- 7- 1 ·	- 2007- 7-31 -
Time	Level	Name	IP address	
2007-7-31 15:59:25	General	AC Resume	USB	AC Resume
2007-7-31 15:59:25	General	Battery	USB	Battery Normal
2007-7-31 15:59:25	General	Inverter	USB	Inverter Normal
2007-7-31 15:59:25	General	Turn Off	USB	Turn Off Cancelle
2007-7-31 15:59:22	Serious	UPS Turn	USB	UPS Turn Off
2007-7-31 15:59:20	General	UPS Normal	USB	UPS Normal
2007-7-31 15:59:19	Warning	UPS Bypass	USB	UPS Bypass
2007-7-31 15:59:19	General	VPS Test	USB	UPS Test Complete
2007-7-31 15:59:19	General	Turn Off	USB	Turn Off Cancelle
2007-7-31 15:59:13	Serious	AC Fail	USB	AC Fail
2007-7-31 15:59:13	Warning	Battery	USB	Battery Voltage
2007-7-31 15:59:13	Warning	UPS Failure	USB	UPS Failure
2007-7-31 15:59:13	General	UPS Testing	USB	UPS Testing
2007-7-31 15:59:13	Serious	UPS Turn	USB	WPS Turn Off
2007-7-31 15:48:46	General	UPS Conn	USB	UPS Connected
2007-7-31 15:47:44	Serious	DisConne	Auto	DisConnected
<				10

In this list, there are UPS event's rating, time, title and its monitoring PC address recorded

1) Providing filter mode by event's rating

2) Providing filter mode by time

3)Also providing filter mechanism for deleting history event





Choose different deleting mode. Like

- 1) deleting dated from 2007-7-1 to 2007-7-31;
- 2) deleting all dated one day ago;
- 3) deleting all records

#### **Check History Data**

Click "history data record" and enter:



Time	IP Address	Input Voltage	Frequency	Output Vol	Output Los	-
2007-7-31 16:40:57	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:40:51	USB	220.00	50.00	230.00	30.00	-
2007-7-31 16:40:46	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:40:41	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:40:36	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:40:31	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:40:26	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:40:21	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:40:16	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:40:11	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:40:06	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:40:01	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:39:56	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:39:51	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:39:46	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:39:41	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:39:36	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:39:31	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:39:26	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:39:21	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:39:16	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:39:11	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:39:06	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:39:01	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:38:56	USB	220.00	50.00	230.00	30.00	
2007-7-31 16:38:51	USB	220.00	50.00	230.00	30.00	*
<	1				>	

All that listed are UPS history data and the time interval is defined by users themselves.

Now there are input voltage, Frequency, Output voltage and output load etc

IP address: if the UPS is LAN connected, it shows your chosen communication interface like USB, COM1

If the UPS is long-distant, it shows long-distance monitoring IP address like 192.168.0.2

1) Filtering record function



_			150
N	Farameter ID	TR Allerer Name	-^
(impo)		Ir Address	
		Input voltage	
		Output Voltogo	
		Output Ford	
		Battery Canability	

Providing filtering mode by UPS relative parameters and mode by time

2) Deleting record function

Delete Record	
Please select the mode and then click "execut	e before you delete the records, .e" button to delete the records.
	2007- 7- 1 💌 to 2007- 7-31 💌
C Delete the records before	1 Days
C Delete All Record	
	Execute Cancel

Providing 1, deleting by period; 2, deleting certain day's record; 3, deleting all three modes

3) Checking curve map



Date:	2007- 7	-31 🔹	Start Tim	e:	one day	<b>•</b>	Filtrate
— 🔽 InputV — 🔽 Batter	Voltage y Capability	, =	✓ OutputVol ✓ Frequency	tage		- 🔽 Output I▼ Tempera	Load ature
240			traileante		In the second		lumium tumi
220-							
200							
180-							
160							
140							
120							
100-							
80							
60 -							
40 -							
20							
0							
00 01 02	03 04 05	06 07 08 0	9 10 11 12	13 14	15 16 17	18 19 20 2	21 22 23 00
							Time

Checking UPS status by curve map, filtering by parameters and choose time and period, reflecting

UPS status by form of curve



#### Check curve map

Click "check curve map" as below

In the curve map, we can clearly read different colors representing input voltage, output voltage, battery capacity and loads change in a period

📴 Power Lanager: 1	JSB			
<u>S</u> ystem <u>V</u> iew <u>C</u> ontrol	Help			
	🧕 🛃 🖉	湊 🛞 🔀 🎉	22	
240 220 - 200 - 180 - 160 - 140 - 120 - 80 - 80 - 40 - 20 -				
0 9	16:01:38	16:02:08	16:02:38	Time
Input Voltage	(v) — Output Voltage(v)	) —— Battery Capac	ity(%) Load(%)	
State Curve Data	AL Normal 👹 Battery .	Normal 🤝 UPS Normal	Wot Self-Test	Or'S UnLine
Time	Event Information			
)7/31/07 15:59:26	AC Resume		54C	1
J7/31/07 15:59:25	Battery Normal			
07/31/07 15:59:25 07/31/07 15:59:25	Inverter Normal Turp Off Congollod			
17/31/07 15:59:22	MPS Turn Off			
17/31/07 15:59:20	IIPS Normal			11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
	100 H. J.1.100 EV-11	100 10 11 1 0		18.00.00



#### **Check State Map**

Click check state map as below (this is UPS normal state map)



By this state map, we can read data like input voltage, output voltage, frequency, battery capacity, temperature inside UPS and load etc,



It means the input voltage now is 220.00V;



Output Voltage

it means the output voltage now is 220.00V;



it means the voltage frequency now is 50.00Hz



It means the battery capacity now is 100%;



it means the temperature inside UPS now is 30.50 Celsius degrees;



it means the output load now is 5%

By this map, we can check alarming situation: UPS disconnected, city power cut, low battery voltage, UPS shutdown, UPS malfunction, testing and bypass etc

1: When UPS is disconnected as map below: the streaming line stopped, the indicator for UPS disconnected turns red and





UPS communication disconnected is messaged in alarming column.

2: When city power is cut as map below: the streaming line is extended from battery, the indicator for city power

cut turns red and city power cut is messaged in the alarming column



📴 Powerlanager: U	SB	
<u>System View Control</u>	<u>H</u> elp	Annual Inc. 2016 - 19
	🧕 🚾 🗉 🕶 🍉 🚟 🏹 😵	
0 60 120180 240 300 IN:220.00V Input Voltage	BYPASS RECTIFIER INVERTER	0 60 120180 240 300 OUT:230.00V Output Voltage
0 20 40 60 80 100 F:50 00Hz	88% 30,50 °C Temperature	30%
Frequency	Battery Capability	Load
Connected State Curve Data	AC fail \varTheta Battery Normal \varTheta UFS Normal 🍚 Not Se	lf-Test \varTheta UPS OnLine
Time	Event Information	A
07/31/07 16:07:29	AC Fail	
07/31/07 16:06:30	DisConnected	
07/31/07 15:59:26	۵ Regime	
07/31/07 15:59:25	Battary Normal	
07/31/07 15:59:25	Inverter Normal	~
lanufacturer:richcomm	UPS Model:UPS 5K-11A UPS Ver:Version1.0	16:07:33

3: when battery voltage is low as map below: the indicator for low battery voltage turns red and abnormal battery voltage

is messaged in the alarming column





4: When UPS is shut down as map below: the streaming line is fixedly and UPS shutdown is messaged in the alarming column



B Poverlanager: I	ISB	
System View Control	Help	
	🧕 🚾 🗉 🕶 🍉 🊟 💐 🤣	
0 60 120180 240 30 IN:220.00V Input Voltage	BYPASS	0 60 120180 240 300 OUT:230.00V Output Voltage
0 20 40 60 80 10 <b>F:50-00Hz</b>	88% <u>30.50</u> °C Temperature	30%
Frequency		
	Battery Lapability	Load
Connected G	AC Normal \varTheta Battery Normal <table-cell> UPS Normal 💮 Not S</table-cell>	Self-Test \varTheta VPS OnLine
ime	Event Information	
7/31/07 16:08:41	UPS Turn Off	1
7/31/07 16:08:07	Battery Voltage Low	
7/31/07 16:08:03	AC Resume	
7/31/07 16:07:29	AC Fail	
7/31/07 16:07:22	IPS Connected	
nufacturer richcomm	JES Model JES 5K-11A JES Ver Version1 0	16:08:42

5: When UPS is malfunctioned as map below: the streaming line is fixedly and there is exclamatory mark in the middle,

the indicator for UPS malfunction turns red and UPS malfunction is messaged in the alarming column



🛐 Powerlanager: US	зВ	
System View Control H	<u>[</u> elp	
	◙ 🚾 🗉 🕶 🏊 🚟 ⋜ 🜠 🖓	
0 60 120180 240 300 IN:220.00V Input Voltage	BYPASS	0 60 120180 240 300 OUT:230.00V Output Voltage
0 20 40 60 80 100 F:5000Hz	88% 30.50 °C Temperature	30%
Connected	Battery Capability AC Normal \varTheta Battery Normal 💽 UPS Failure 🎯 Not Se	Load
State Curve Data		
Time	Event Information	<u>^</u>
07/31/07 16:09:09	VPS Failure	
07/31/07 16:09:07	Turn Off Cancelled	
07/31/07 16:08:41	UrS Turn Uff	
	Battery Normal Bettern W.Ttern Tem	
07/31/07 16:08:03	Dattery vortage LOW	*
Manufacturer:richcomm	UPS Model:UPS 5K-11A UPS Ver:Version1.0	16:09:11

6: When testing as map below: the streaming line is extended from the battery, the indicator for testing turns red and

UPS testing is messaged in the alarming column



System View Control Help         Image: 1000 Control Help         Image: 10	X
System View Control Help         Image: Contr	300 7 1ge
System Yiew Control Help         Image: System Yiew Control Help     <	300  7 / 1ge
Image: Second	'300 7 1ge
0       60       120180 240 300         Input Voltage       BYPASS         0       20       40       60       88%       30.50       C       30%	300 7 1
F:50-00Hz	
Frequency Battery Capability Load	
Connected Corve Data	3 OnLine
The True True Inc.	
Ime Event Information	
07/31/07 16:09:34 UPS Normal	
07/31/07 16:09:09 UPS Failure	
07/31/07 16:09:07 Turn Off Cancelled	
07/31/07 16:08:41 UPS Turn Off	-
N7/31/N7 18:08:38 Rottory Normal	
Manufacturer richcomm IPS Model IPS 5K-114 IPS Ver Version1 0	

7: When bypass as map below: the streaming line passed by BYPASS, the indicator for BYPASS turns red and

UPS BYPASS is messaged in the alarming column



🗃 Powerlanager: U	5B		
System View Control	felp		
	] 📃 🔀 💿	ð 🔌 🏼 🔁 🜠 💈	ł
0 60 120180 240 300 IN:220.00V Input Voltage	RECTI		0 60 120180 240 300 OUT:230.00V Output Voltage
0 20 40 60 80 100 F:5000Hz		88% <u>30,50</u> °C Temperature	30%
Frequency		Battery Capability	Load
Connected O State Curve Data	AC Normal \varTheta Batt	ery Normal \Theta UPS Normal 🛛 <table-cell></table-cell>	ot Self-Test OFS Bypassed
Time	Event Information		
07/31/07 16:10:03	UPS Bypass		
07/31/07 16:10:01	UPS Test Completed		
07/31/07 16:09:36	VPS Testing		
07/31/07 16:09:34	UPS Normal		
07/31/07 16:09:09	VPS Failure		
07/31/07 16:09:07	Turn Off Cancelled		
Manufacturer:richcomm	UPS Model:UPS 5	K-11A UPS Ver:Version1.0	16:10:04



#### **UPS** Control

#### Scheme Task

click "UPS Scheme Task" as belo	click	"UPS Scher	ne Task"	as	belo
---------------------------------	-------	------------	----------	----	------

Task Name	Execute	. Running	Start time	
• WPS Self-Test for 10 • WPS Self-Test Until B • WPS Self-Test :	Secs	<ul> <li>Turn off UPS,</li> <li>Turn off UPS,</li> <li>and reboot UPS</li> <li>Intraday</li> <li>Shunt down th</li> </ul>	delay 2 delay 2 5, in y 16: ie computer, now?	minute minute
Task Everyta Tima			15.56.57	

#### Planning by:

- 1) UPS self-diagnose 10 seconds
- 2) UPS stops self-diagnose until the battery voltage is low
- 3) UPS self-diagnose X minutes
- 4) shut down UPS in X minutes
- 5) Shut down UPS in X minutes and restart in Y minutes

#### Carrying out on regular basis as below:

1) once

- 2) EveryDay
- 3) EveryWeek
- 4) Everymonth
- 5) Every Day

User can click "add" according to planning and carrying out on regular basis, it will be well added as below:



Task Name	Execute	Running	Start time	
VPS Self-Test for 10 Secs	Once	e 2007-7-31	15:56:57	
Task • VPS Self-Test for 10 Secs • VPS Self-Test Vntil Batter • VPS Self-Test : 1	y Low minute	<ul> <li>C Turn off UPS,</li> <li>C Turn off UPS,</li> <li>and reboot UP</li> <li>Intraday</li> <li>Intraday</li> </ul>	delay 2 delay 2 S, in y 1 he computer, now	minute minute 6:01:57
		Start Time:	15:56:57	

After it's added, software will carry it out automatically when set time

## Turn off and Turn on

🕫 Turn off VPS, delay	1	. Minutes
C Turn off WPS, delay	1	- Minutes
and reboot WPS, after	1	
C Cancel ups command of tur	noff	

Provide 3 functions as follows



- 1) Shut down UPS in X minutes and click on "execute" UPS will automatically shut down in X minutes
- 2) Shut down UPS in X minutes and restart in Y minutes, click on "execute", UPS will automatically

shut down in X minutes and restart in Y minutes.

3) Cancel command of shut down UPS. When the command of shut down UPS was sent but UPS is still

waiting for shutdown, we can cancel the command.

#### Testing

Click "test" as below

PS	Testing
¢	VPS Self-Test for 10 Seconds
C	UPS Self-Test Until Battery Low
C	UPS Self-Test for 1 📰 Minutes
C	Cancel UPS Self-Test

**Providing 4 functions:** 

1) UPS self-diagnose 10 seconds: click "execute", testing is finished after UPS self-diagnose for 10 seconds

2)UPS self-diagnose till the battery voltage is low: click "execute", testing is finished when UPS battery voltage is low

3) UPS self-diagnose X minutes: click "execute", testing is finished in X minutes

4) Cancel UPS self-diagnosis: UPS cancels testing when execute cancel UPS self-diagnosis

#### **About PowerManager II**

Click on the icon of PowerManager in the panel and further click on "about" in the pop-up menu then you can open "PowerManager" window



# **PowerManager II for LINUX**

# 1.Software installation and operation

i) soft installation

copy the package ups\_manager to you favorite directory , example :/root/tmp Use the tar command to extract files from the diskette or software package:

tar -xzvf ups\_manager.tar.gz

Change the working directory to /tmp.

cd /root/tmp

Execute the installation program:

./install.linux.sh

The installation program will not execute in some shell scripts. If this happens, change to another shell script and try again.

the installation program will automatically copy files to the default location "/etc/RichComm/ups\_manager/" and modify the system startup file to contain the ups\_manager for UNIX daemon process.

ii) start program

The installation program will automatically start the main program .

you can start it use following command:

./ups\_manager start

iii) stop program

you can start it use following command:

./ups\_manager stop

iv) config program

you can start it use following command:

./ups\_manager config



# 2.software package

./ups\_monitor

./ups\_status

./ups\_config

./shutdown.sh

./ups\_manager

./ups\_manager start

./ups\_manager stop

./ups\_manager config

./ups\_manager status

./ups\_manager restart

./TimeCfg.conf

./install.linux.sh

./Readme

./SendMSG.sh

./startup.add



# **PowerManager II for SCO UNIX**

# 1.Software installation and operation

i) soft installation

copy the package ups\_manager to you favorite directory , example :/root/tmp Use the tar command to extract files from the diskette or software package:

tar -xvf ups\_manager.tar

Change the working directory to /tmp.

cd /root/tmp

Execute the installation program:

./install.sco.sh

The installation program will not execute in some shell scripts. If this happens, change to another shell script and try again.

the installation program will automatically copy files to the default location "/etc/RichComm/ups\_manager/" and modify the system startup file to contain the ups\_manager for UNIX daemon process.

ii) start program

The installation program will automatically start the main program .

you can start it use following command:

./ups\_manager start

iii) stop program

you can start it use following command:

./ups\_manager stop

iv) config program

you can start it use following command:

./ups\_manager config



# 2.software package

/ups\_monitor

./ups\_status

./ups\_config

./shutdown.sh

./ups\_manager

./ups\_manager start

./ups\_manager stop

./ups\_manager config

./ups\_manager status

./ups\_manager restart

./TimeCfg.conf

./install.sco.sh

./Readme

./SendMSG.sh



# **PowerManager II for FreeBSD**

### 1.Software installation and operation

i) soft installation

copy the package ups\_manager to you favorite directory, example :/root/tmp Use the tar command to extract files from the diskette or software package:

tar -xzvf upsmanager1.0v.bsd.tar

This demand will create a directory: upsmanagerinstall. Enter this directory, executefile:./install.freebsd.sh . Converse the file installation.the installation program will automatically copy files to the default location "/etc/ups\_manager/" and modify the system startup file to contain the ups\_manager for freebsd daemon process.

ii) start program

The installation program will automatically start the main program .

you can start it use following command:

./ups\_manager start

iii) stop program

you can start it use following command:

./ups\_manager stop

iv) config program

you can start it use following command:

./ups\_manager config

55



# 2.software package

./ups\_monitor

./ups\_status

./ups\_config

./shutdown.sh

./ups\_manager

./ups\_manager start

./ups\_manager stop

./ups\_manager status

./ups\_manager config

./ups\_manager restart

./TimeCfg.conf

./install.freebsd.sh

./Readme

./SendMSG.sh

./startup.add

### 3.contact us and technical support

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