Belkin

Automatic Power Management Software

User's Manual

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Chapter 1 **Belkin Automatic Power Management Software** Introduction

Belkin Automatic Power Management Software profile

Belkin Automatic Power Management Software (Belkin APM Software) is a UPS monitoring software which supports both stand alone computers and network (including LAN / Internet) connected computers.

Belkin APM Software monitors the intelligent UPS and safeguards computer systems from unexpected crash when power fails. With Belkin APM Software, users are able to monitor and configure the UPS on any computers in the network. With this software, one UPS can protect computers in network with security simultaneously, including shutting down system in security, saving application data and shutting down the UPS when AC power fails.

Belkin APM Software structure

Belkin APM Software is composed with components: Agent, Monitor and Traylcon.

Note: The concrete meaning of Agent refer to Appendix A - glossary explanation.

Agent

The core component of Belkin APM Software runs as a system service in the background. Also communicates with the UPS, logs events, notifies users of events and arranges actions according to user's requirement and shutdowns the system when necessary. Agent can be managed by Monitor.

Monitor

The user interface of Belkin APM Software. Relying on Agent, it gathers real-time UPS information, UPS status, server information and allows user to set the UPS parameters. It works on any computer in the LAN.

Tray Icon

The management tool of Belkin APM Software, and works in Windows platform only. It shows on the system tray. Traylcon has two different icons for displaying current Agent status. Please refer the listed table below for the status illustration:



The Agent is stopped.

The Agent is running.

A short cut menu pops up when right-clicking on the icon on the system tray.



The relationship between Agent and Monitor.



Belkin APM Software Application Range of stand alone computers.

Application in the LAN.



Application on the Internet.



Belkin APM Software functions & advantages

- When the Agent starts, it will run continuously to protect your equipment in every minute. To uninstall is easily and clearly with no trace. This software will not increase spend on system and is a Green software. You can have a full view of all the information, including utility power, UPS, loads and battery and the information will be listed in the same window.
- Auto searching and telemonitoring any UPS in LAN.
- Manual searching and telemonitoring any UPS in Internet.
- Security protection: The system administrator can set the password to prevent damage from others. Only the system administrator has the authority of full access, while other users have the authority of view only.
- Data auto protection: It can close most of the running applications and save the related files.
- Time turning on and off the UPS: It can give maximum protection to your computer system.
- Time self test of the UPS: It provides the maximum protection to your UPS system.
- Network shutdown: It supplies your network system the maximum protection.
- Data logging (including UTILITY POWER, UPS, LOAD and BATTERY) and event logging: The system administrator can carry out the UPS system daily maintenance.
- Flexible means of information transfer allows the user to control the UPS status at anytime and anywhere. Important information will never be missed because of the change of time and place.
 - o Broadcasting messages to every user in the network.
 - Sending messages via pager.
 - Sending messages by EMAIL.
 - Sending messages via mobile phone sending SMS.

Chapter 2 Installing, Starting & Uninstalling of Belkin APM Software

System requirements

- 128 MB RAM of memory at least (256MB is recommended)
- 256 colors and 800 * 600 resolution or above display is recommended
- 160 MB of disk space or above
- An available communication port (RS-232 Serial Port or USB port) is needed while connecting to UPS with a special connecting cable.
- For Mac OS X, Linux or Unix operating system, the user must have the access authority as the administrator
- TCP/IP protocol must be installed to support network management and the port 2099 should be opened in the firewall.

Platforms supported by Belkin APM Software

The following operating system (OS) is arranged by the alphabetical order:

- AIX 4.3.3, 5.1, 5.2
- Compaq Tru64 Alpha
- FreeBSD x86
- HP-UX 11.x, 11i.x
- Linux
- Mac PPC OSX
- SCO UnixWare 7.1.1, 7.1.3, SCO Unix 8.0, and SCO OpenServer 5.0.6, 5.0.7
- SGI Irix 6.5.x
- Solaris / Sparc 2.6, 7, 8, 9, and Solaris / Intel 2.6, 7, 8, 9
- Windows XP / 2003 / 2000 / ME / 98 / NT 4.0 (SP6) / Vista.

Installing Belkin APM Software

Note: The installation must be started with "root" account in Linux and Unix systems. After installing, you must restart the system before running the Belkin APM Software.

Enter the correct directory of the CD-ROM according your OS and PC type.

GUI mode environment

Insert the Belkin APM Software CD; find the OS of your computer under the CD directory.

Windows platform

2.

 Enter the directory: \Windows\Disk1\InstData\VM in the address bar, run setup.exe to start the installation.

> Notice: In Vista, you should run setup.exe as administrator. Right click on the setup icon, then select "Run as administrator". If a "user account control" dialog pops up, then select "Allow".

Read the introduction, and click **NEXT** to continue.

3. Select a folder directory to install Belkin APM Software.

(Refer to installing directory in the following)







4. Review the Pre-installation Summary, and click Install to start the installation.

5. To stop the installing, click Cancel to stop.

6. Click **Done** when the installation is complete.

7. Belkin APM Software application can be found in the Start menu > Programs.

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Mac OS X platform

1. Enter the directory: \MacOSX\Disk1\InstData in the address bar, and double click the setup.app to start the installation.



🖫 Belkin Automatic Powe	er Management Software
	Pre-Installation Summa
Introduction	Please Review the Following Before Continuing:
😑 Enter Serial Number	Product Name:
Choose Install Folder	Belkin Automatic Power Management Software
Pre-Installation Summary	
Installing	Install Folder:
Install Complete	C:\Program Files\Belkin Automatic Power Management
	Software
	Shortcut Folder:
	C:\Documents and Settings\zouj\Start
	Menu\Programs\Belkin Automatic Power Management
	Software
BEIKIN	Dick Space Information (for Installation Tarcet)
BEERIN	Bik Space Information (for fusialianon faiger).
InstallAnywhere by Zero G	
Cancel	Previous
🗑 Belkin Automatic Powe	er Tanagement Software
in	stalling Belkin Automatic Power Management Softwa
Introduction	
Enter Serial Number	
Choose Install Folder	
Pre-Installation Summary	
Installing	
Install Complete	
BELKIN	
DEEKIN.	Installing Java Runtime Environment
InstallAnywhere by Zero G	1.
Cancel	
<u>.</u>	
🖫 Belkin Automatic Powe	r Hanagement Software
	Install Comple
Introduction	Commente de la commenta de la
Cates Seciel Number	Congratulations! Belkin Automatic Power Management Software has been successfully installed to:
Chasse Install Selder	been successiony instaned to.
Choose Install Folder	C:\Program Files\Belkin Automatic Power Management Software
 Pre-Installation Summary 	
installing	Press "Done" to quit the installer.
install Complete	
DELVIN	
DELKIN.	
Installânwebara by Zora C	J
Instantwinywhere by zero G	
Cancel	Previous Done
oboHelp Enterprise	•
elkin Autonatic Power Management Software	 Belkin Automatic Power Management Software
itraEdit	 Uninstall Belkin Automatic Power Management Software
inRAR	* # 145
indows Media Player	
indows Messenger	
神	•
动	soft Of.

2. Enter the Administrator name and password, and click **OK**.

6		Authenticate	0
R	setup.app	requires that you type your password.	
	Name:	apple	1
	Password:		
▶ Details			
?		Cancel OK)

Other operating systems

1. Execute ./setup.bin to carry out the installation. Notice: If you can't install on CD directly, please try to copy the content of CD to your disk, then install.



Consoling mode environment

Enter the directory according the OS and run setup_console.bin to start the installation program.

Read the information provided, and then press **ENTER** to continue the installation. Click **Done** when the installation is complete. Reboot the Linux and Unix system after installation.

The installation will set environment variables for Belkin APM Software in *letc/profile* file (details see "Set environment variable" below). Rebooting the system will apply the settings.

Note: For UnixWare platform, make sure JRE1.3.1 has been install in your system, and then enter the /GenericUnix directory to start the setup. Only in Linux and Unix platform, you can use the consoling mode environment.

Start / stop Belkin APM Software

Windows Vista

When the computer boots up, the Belkin APM Software will run automatically. You can see the green icon on the system tool bar when you logon.

To start the Monitor, right click the Belkin APM Software tray icon, and select **Start Monitor**, or double click the icon.

• To stop the Agent, right click the Belkin APM Software tray icon, and select **Stop** Agent.



• To start the Agent again, right click the Belkin APM Software tray icon, and select **Start Agent**.



To exit, right click the Belkin APM Software tray icon, and select **Exit**. Once you exit it, you should restart the computer to start it automatically. But if you have administrator privilege, you can start it again without restart. There are two steps: the first to start the agent, open the "Services" from the "Start menu" > "Control Panel" > "Administrative tools", and find the service "BelkinAPMmonitor", right click on it, select "Start". The second to start Trayicon, click the Belkin APM Software form Start menu > Program \ Belkin Automatic Power Management Software

Other Windows

Run the Belkin APM Software form Start menu > Program \ Belkin Automatic Power Management Software to start the Traylcon and Agent.

CuteFTP Pro	🛅 RoboHelp Enterprise	•	-
~	🝘 Belkin Automatic Power Management Software	• 🗨 Belkin Automatic Power Management Software	
Microsoft Office 2003	🛅 UltraEdit	🕨 🥘 Uninstall Belkin Automatic Power Management Software	
	m WinRAR	•	
所有程序(P) 👂	🕑 Windows Media Player		
	🔏 Windows Messenger		
	前時	•	
🣲 开始 🔰 🔛	自动	soft Of	

- The Agent can be start by right clicking on the Belkin APM Software icon on the system tool bar and select **Start Agent**. For Windows OS, the Agent can be start up automatically when the computer boots up.
- To start the Monitor, right click the Belkin APM Software tray icon, and select **Start Monitor**.
- To stop the Agent, right click the Belkin APM Software tray icon, and select **Stop** Agent.



Mac OS X

Set Agent to be auto started when the OS boots up:

Open System Preferences > Accounts > Login items, and click the + icon to add the Applications / Belkin Automatic Power Management Software / Agent as auto login item.



- To start the Agent, double click the executable agent link in **Applications / Belkin Automatic Power Management Software /** directory.
- The Agent can also be started by enter the installing directory and execute the command ./agent start.
- To start the Monitor, double click the executable monitor link in **Applications / Belkin Automatic Power Management Software /** directory.
- The Monitor can also be started by enter the installing directory and execute the command: ./monitor.
- To stop the Agent, enter the installing directory and execute the command: ./agent stop.

Linux and UnixWare

- To start the Agent, enter the **/opt/upspilot** in the address bar and execute the command: **./agent** start.
- To start the Monitor, enter the **/opt/upspilot** in the address bar and execute the command: **./monitor**.
- To stop the Agent, enter the **/opt/upspilot** in the address bar and execute the command: **./agent stop**.

Uninstall Belkin APM Software

Note: Before uninstall Belkin APM Software, all Belkin APM Software program must be stopped first. Otherwise the uninstalling can not be run completely.

Windows operating system

- 1. There are two ways of uninstalling Belkin APM Software:
 - a. Click directly on the Uninstall Belkin Automatic Power Management Software from the Start menu > Belkin Automatic Power Management Software. Notice: in Vista, make sure you have administrator privilege, right click and select "Run as administrator".
 - b. Use the Add / Remove Program under Control Panel, Select Belkin Automatic Power Management Software, and click the Change / Remove button.

2. The Uninstall Program will pop up a prompt, and click **Uninstall** to start the uninstalling.

To exit the uninstall, click Cancel.





3. Click **Done** when the uninstall completes.

		Uninstall Complete
 Introduction Uninstalling Uninstall Complete 	All items were successfully uninstalled.	
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Mac OS X system

- 1. Open the Terminal from Applications > Utilities > Terminal , enter the installation directory (/opt/upspilot by default) and execute the command: sudo ./Uninstall.
- 2. Enter the system account password when it prompts. The installation will be carried out with super user privilege and can completely uninstall all the files.
- 3. If you just execute the **./Uninstall** command, the installation may not has the permission to uninstall all the files.

Linux and UnixWare system

Open the Terminal, enter the **/opt/upspilot** directory and execute command: **./Uninstall**.

Chapter 3 Belkin APM Software User Interface

Belkin APM Software manage window

Belkin APM Software Monitor shows "Belkin Automatic Power Management Software Manager" window which lists all Agents within the LAN.

There is a tree menu on the left side of the window that lists all hierarchical items, such as Root, networks, the Agents, the COM port, or USB port and the UPS models. By clicking any of them, the user can expand or collapse the associated list of sub-items.



If you select one of the UPS model from the UPS List, the detailed information will be displayed on the right column. See the following graphic for detailed illustration.



UPS status bar

Five elements are in the Ups status figure: AC LINE, BYPASS, UPS, BATTERY, and LOAD. Each part connects with the power cord.

Menu and Dialog

System Menu

Auto Search UPS

To open this option, selects **Auto Search UPS** from **System** menu, and Belkin APM Software starts searching for the UPS connection with the computer's serial port.



By clicking the item under the tree menu, the user is able to get the information as below:

- 1. All computers running Belkin APM Software Agent in the LAN.
- 2. UPS COM port or USB port.
- 3. The UPS model and Agent connecting information.
- 4. The Agent status and user connecting information.



Administrator

To open this option, selects **Act as Administrator** from **System** menu. Enter the administrator password in the dialog box and then click **OK**. If the entry is not correct, a prompt pops up to give the warning message. Or users can get the administrator access right and set up the Agent.

Note: Default password is blank.

Admi	nistrator			×
Pas	sword:	Γ		
	<u>0</u> K		<u>C</u> ancel	

Administrator Password Settings

To open this option, selects **Modify Administrator Password** from **System** menu.

Administrator password only can be set or changed by super user on local machine. If you are not a super user, the Administrator prompt pops up and tell to log in as an administrator first.

Users need to enter a new password in the **New Password** line and re-enter the new password again to confirm the password. If the passwords are not consistent with each other, a prompt pops up to notify the consistency problem and request to enter the new password again. Click **OK** when the entry is done. Now the new password is applied.

Administrator Passwo	rd Settings 🛛 🔀
New Password:	
Confirm Password:	
Notice: Leave Password Bla	nk to Enable Full
Administrator Privileg	jes to All Users.
<u>0</u> K	<u>C</u> ancel

Leaving the password blank enable full administrator

privileges to all users. It means that anyone can have full access without logging in as an administrator. So ,if you want users to have full administrator privileges only by logging in, set the password non-blank.

Communication Port Settings

To open this option, selects Communication Port Settings from the System menu.

For Linux and Unix platform, the Belkin APM Software is not able to auto detect the Serial Port Devices. If the System has a Serial Port that not being found in the default setting table, you must add it manually in the "Communication Port Settings" window before using it. To add a new COM port, enter the port in the blank column first and then click **Add**.

Read the followed table for detailed information on Serial Port Devices setting:

Platform	Serial Port Devices	Communication Port Settings				
AIX	/dev/tty0 /dev/tty1	COM Port List				
FreeBSD	/dev/ttyd0 /dev/ttyd1	/dev/ttyS0 /dev/ttyS1				
HP-UX	/dev/tty0p0 /dev/tty1p0 /dev/tty0p1 /dev/tty0p2	<u>A</u> dd				
Linux	/dev/ttyS0 /dev/ttyS1.	<u>R</u> emove]			
Solaris	/dev/ttya /dev/ttyb					
Tru64	/dev/tty00 /dev/tty01					
UnixWare	/dev/tty1A /dev/tty2A					

Note: If **OK** is not available, which means your access authority of the current Agent is "Read Only" and the settings can't be changed. To log in as an administrator, refer to *on page 14* for detailed information.

Log Menu

Event Log Viewer

Three methods to open the Event Log Viewer:

- 1. Selects Event Log from Logs menu,
- 2. Click buttons from the toolbar,
- 3. Click View log button of Event Log in the Record Setting window.

Then the Event Log Viewer pops up, which shows a list of history events.

ven	it Log			Record No:	1 - 5 of 5	
~	DATE	TIME	EVENT TYPE			DELETE
Ð	2006/07/11	08:31:29	Start Agent			
Ð	2006/07/11	09:39:08	Stop Agent			Г
Ð	2006/07/11	10:00:04	Start Agent			Г
Đ	2006/07/11	10:13:02	Stop Agent			Г
Ð	2006/07/11	10:32:03	Start Agent			Г
-						Г
						Г
						Г
1						Г
						Г
						Г
						E
						Ē
						F
						F

Deleting an event:

Check in the **DELETE** column on the event which you wish to delete, and click **Delete** at the bottom of the window.

Deleting all events:

Click Purge All at the bottom of the window to delete all events.

Note: If Delete or Purge All is not available, which means your access authority of the current Agent is "Read Only", and can't carry out the operation. To log in as an administrator, refer to *on page 14* for detailed information.

Data log Viewer

To open this option, selects **Data Log Viewer** from the **Logs** menu, or click **View log** button of Data Log in the **Record Setting** window, and the Data Log Viewer pops up to show history data. Users can click **Next**, **Prev**, **Home** and **End** to display the data log.

Data Lo	ata Log Viewer 🔀															
Port:	ALL	-	UPS:	ALL	Ψ.	Recor	d No:	1 - 1	5 of 21							
C	DATE	TIME	Port	Model	IN-V	IN-V	IN-V	OUT-V	OUT-V	OUT-V	BATT-V	IN-F	OUT-F	LOAD	TEMP	DELETE
200	4/11/22	11:25:35	COM1	ON-LINE	218			221			110.2	50.1		7	32	
200	4/11/22	11:26:35	COM1	ON-LINE	218			221			110.2	50.1		7	32	
200	4/11/22	11:27:35	COM1	ON-LINE	218			221			110.2	50.1		7	32	
200	4/11/22	11:28:35	COM1	ON-LINE	218			221			110.2	50.0		7	32	
200	4/11/22	11:29:35	COM1	ON-LINE	218			221			110.2	50.0		7	32	
200	4/11/22	11:30:35	COM1	ON-LINE	217			221			110.2	50.0		7	32	
200	4/11/22	11:31:35	COM1	ON-LINE	218			221			110.2	50.0		7	32	
200	4/11/22	11:32:35	COM1	ON-LINE	217			222			110.2	50.0		7	32	
200	4/11/22	11:33:35	COM1	ON-LINE	217			221			110.2	50.1		7	33	
200	4/11/22	11:34:35	COM1	ON-LINE	217			221			110.2	50.0		7	32	
200	4/11/22	11:35:35	COM1	ON-LINE	215			221			110.2	50.0		7	32	
200	4/11/22	11:36:35	COM1	ON-LINE	220			221			103.9	50.0		7	32	
200	4/11/22	11:37:35	COM1	ON-LINE	218			221			110.2	50.0		7	32	
200	4/11/22	11:38:35	COM1	ON-LINE	220			221			110.2	49.9		7	32	
200	4/11/22	11:39:35	COM1	ON-LINE	220			221			110.2	49.9		7	32	
	Next Prev Home End Delete Purge All Close															

Deleting a data log:

Check in the **DELETE** column on the data log which you want to delete, and click **Delete** at the bottom of the window.

Deleting all events:

Click **Purge All** at the bottom of the window to delete all events.

Note: If Delete or Purge All is not available, which means your access authority of the current Agent is "Read Only", and can't carry out the operation. To log in as an administrator, refer to *on page 14* for detailed information.

Record Setting

Event Log and Data Log are contained in this setting.

Event Log

To open this option, selects **Record Setting** from the **Logs** menu.

The default value of the maximum file length of Event Log Viewer is 32KB (The maximum value is 1MB) Click **View Log** to open **Event Log Viewer**.

	Record Setting				×	
	Event Log					
	Max File Len <u>c</u>	th	3200)0 byte(s	3)	
	Viev	v Log	Se	ttinas		
	Data Log					
	Max File Len <u>c</u>	th - '	3200)0 byte(s	5)	
	Record Interv	aı	160	∃ sec(s		
	Viev	v Log				
	Defa	ult	<u>0</u> K	Canc	el	
	a canada da					
Event Log Vi	ever					—
Event Log	TIME	EVENT TYPE	Record IN	0:	1-5015	DELETE
A 2006/07/1	1 08:31:29	Start Agent				
2006/07/1	1 09:39:08	Stop Agent				T T
2006/07/1	1 10:00:04	Start Agent				F
2006/07/1	1 10:13:02	Stop Agent				Ē
2006/07/1	1 10:32:03	Start Agent				Г
						Г
						Г
Next	Prev Home	End	<u>D</u> elete	<u>P</u> urge All	Close	

Data Log

To open this option, clicks **Settings** of Event Log in Record Setting window.

Record Setting	×
Event Log	
Max File Length	32000 byte(s)
⊻iew Log	Settings
Data Log	
Max File Length Record Interval	32000 byte(s) 60 🛓 sec(s)
Vi <u>e</u> w Log	
<u>D</u> efault	<u>O</u> K <u>Cancel</u>

Event Action			
Event Action Event List UPS Battery Low UPS Battery Time Exhaust UPS Output Overload Communication Lost AC Fail On Bypass Bypass without output Self-test Fail Phase sequence input error Battery connection fail Load unbalance Over load Internal warning Maintain cover is opened Maintain cover is opened Maintain cover is opened		I⊽ R <u>e</u> cord ¯ <u>B</u> roadcast ¯ E <u>M</u> ail ¯ <u>S</u> end SMS ¯ Send <u>P</u> ager	Setting Setting Setting Setting
AC Restore Communication establish	-	ок	Cancel

The default **Max File Length** in Data Log is 32KB (the maximum is 1MB). The default **Record Interval** in Data Log is 60 second (the maximum is 3600 seconds). Click **View Log** to open Data Log dialog.

DATE TIME 2004/11/22 11.28:35 2004/11/22 11.26:35 2004/11/22 11.27:35 2004/11/22 11.20:35 2004/11/22 11:30:35 2004/11/22 11:30:35 2004/11/22 11:31:35	Port COM1 COM1 COM1 COM1 COM1	Model ON-LINE ON-LINE ON-LINE ON-LINE	1N-V 218 218 218 218 218	IN-V 	IN-V 	221 221	0UT-V 	 BATT-V 110.2	IN-F 50.1	OUT-F	LOAD	TEMP 32	DELETE
2004/11/22 11:25:36 2004/11/22 11:26:35 2004/11/22 11:27:35 2004/11/22 11:20:35 2004/11/22 11:29:35 2004/11/22 11:30:35 2004/11/22 11:30:35	COM1 COM1 COM1 COM1 COM1	ON-LINE ON-LINE ON-LINE ON-LINE	218 218 218 218 218			221		 110.2	50.1		7	32	
2004/11/22 11:26:36 2004/11/22 11:27:35 2004/11/22 11:28:35 2004/11/22 11:29:35 2004/11/22 11:30:35 2004/11/22 11:31:35	COM1 COM1 COM1 COM1	ON-LINE ON-LINE ON-LINE	218 218 218			221							
2004/11/22 11:27:35 2004/11/22 11:28:35 2004/11/22 11:29:35 2004/11/22 11:30:35 2004/11/22 11:30:35	COM1 COM1 COM1	ON-LINE ON-LINE	218 218					 110.2	50.1		7	32	
2004/11/22 11:28:35 2004/11/22 11:29:35 2004/11/22 11:30:35 2004/11/22 11:31:35	COM1 COM1	ON-LINE	218			221		 110.2	50.1		7	32	
2004/11/22 11:29:35 2004/11/22 11:30:35 2004/11/22 11:31:35	COM1	ONLINE				221		 110.2	50.0		7	32	
2004/11/22 11:30:35 2004/11/22 11:31:35		ALL FILLE	218			221		 110.2	50.0		7	32	
2004/11/22 11:31:35	COM1	ON-LINE	217			221		 110.2	50.0		7	32	
	COM1	ON-LINE	218			221		 110.2	50.0		7	32	
2004/11/22 11:32:35	COM1	ON-LINE	217			222		 110.2	50.0		7	32	
2004/11/22 11:33:35	COM1	ON-LINE	217			221		 110.2	50.1		7	33	
2004/11/22 11:34:35	COM1	ON-LINE	217			221		 110.2	50.0		7	32	
2004/11/22 11:35:35	COM1	ON-LINE	215			221		 110.2	50.0		7	32	
2004/11/22 11:36:35	COM1	ON-LINE	220			221		 103.9	50.0		7	32	
2004/11/22 11:37:35	COM1	ON-LINE	218			221		 110.2	50.0		7	32	
2004/11/22 11:38:35	COM1	ON-LINE	220			221		 110.2	49.9		7	32	
2004/11/22 11:39:35	COM1	ON-LINE	220			221		 110.2	49.9		7	32	

Note: Click **Default** and all parameters in this page will return default value. If the **OK** is not available, which means your access authority of the current Agent is "Read Only", and the parameters can't be changed. To log in as an administrator, refer to *on page 14* for detailed information.

UPS Menu

UPS Control Parameters

To open this option, selects **UPS Control Parameters** from **UPS** menu. Read the followed table for detailed information on UPS Control Parameters setting.

Input Frequency Range	Lower Limit(40.0 49.0)		46.0 - H
	Upper Limit(51.0 60.0)		55.0 ÷ H
Voltage Range on Bypass	Lower Limit(80 219)		80 - \
	Upper Limit(221 286)		265
Panel Control			_
Allow OFF-Key to Enable/Disable Audible	н.	C Yes	
Warning When UPS Works on Bypass			
Allow ON-Key to Enable/Disable Audible	C Yes	No	
Warning When UPS Works on Battery Mo	de		
Audible Warning			
Bypass Audible Warning		🖲 On	C Silent
Battery Mode Audible Warning		C On	Silent
Operation Option			
Work On Bypass When UPS Turned Off		Yes	C No
Auto Reboot UPS When AC Input Restore	ed	C Yes	No

Parameter	Unit	Maximum	Minimum	Default
Upper limit of input frequency on bypass	Hz	60.0 (for 50Hz system) 70.0 (for 60Hz system)	51.0 (for 50Hz system) 61.0 (for 60Hz system)	54.0 (for 50Hz system) 64.0 (for 60Hz system)
Lower limit of input frequency on bypass	Hz	49.0 (for 50Hz system) 59.0 (for 60Hz system)	40.0 (for 50Hz system) 50.0 (for 60Hz system)	46.0 (for 50Hz system) 56.0 (for 60Hz system)
Upper limit of input voltage on bypass	V	286 (for 1~3K 220V UPS) 132 (for 1~3K 110V UPS) 261 (for 6~20K UPS)	221 (for 1~3K 220V UPS) 110(for 1~3K 110V UPS) 231 (for 6~20K UPS)	264(for 1~3K 220V UPS) 132 (for 1~3K 110V UPS) 261 (for 6~20K UPS)
Lower limit of input voltage on bypass	V	219(for 1~3K 220V UPS) 110 (for 1~3K 110V UPS) 209 (for 6~20K UPS)	80(for 1~3K 220V UPS) 40 (for 1~3K 110V UPS) 140 (for 6~20K UPS)	80(for 1~3K 220V UPS) 50 (for 1~3K 110V UPS) 176 (for 6~20K UPS)
ON button can control battery mode audible warning	-	-	-	Yes
OFF button can control bypass mode audible warning	-	-	-	Yes (for 1~3K UPS) No (for 6~20K UPS)
Do audible warning when on bypass mode	-	-	-	Yes
Do audible warning when on battery mode	-	-	-	Yes
Restore line mode when AC restored	-	-	-	Yes
Work on bypass when UPS turned off	-	-	-	No (for 1~3K UPS) Yes (for 6~20K UPS)

Note: Press Default, all parameters in this page will return to default value.

For regular LINE-INT UPS, users can enable / disable the battery mode alarm audible warning in this window.

UPS Control Parameters			×
Audible Warning			
Change Battery Mod	e Audible Warning(Al	arm/Silent)	
	<u>0</u> K	<u>C</u> ancel	

For special LINE-INT UPS, read the followed table for detailed information.

Battery Mode Audible Warning	ତ (Dr	C Silent
Operation Option		
Power Saving	C Yes	
Auto Reboot UPS When AC Input Restored	Yes	C No
Automatic Self-Test	⊙ Yes	C No
Parameter Option		
Input Type	Normal	-
Output Voltage Rating	220V	-
External battery module number	0	•

Parameter	Value
Battery Mode Audible Warning	Yes – Allows audible warning in battery mode.
	No – Keeps silence in battery mode.
Power Saving	Yes – If the loading is light, the system will shut down UPS in 5 minutes when AC Fail.
	No – UPS won't be shut down until battery backup time exhausts.
Auto Reboot UPS When AC Input	Yes – Enables auto-restart.
Restored	No – Disables auto-restart.
Automatic Self-Test	Yes – Enables automatic self-test.
	No – Disables automatic self-test.
Input Type	Normal – Accepts normal AC line range.
	Wide range – Accepts wide AC line range.
	Generator – Accepts generator's output.
Output Voltage Rating	110V, 120V, 127V, 220V, 230V, or 240V.
External battery module number	Only long time discharged model has this selection, the number is from 00 to 10.

Note: If **OK** is not available, which means your access authority right of the current Agent is "Read Only", and you can't change the settings here. To log in as an administrator, refer to *on page 14* for detailed information.

Event Action

To open this option, selects **Event Action** from the **UPS** menu or button in the toolbar. In **Event Action** window, users can select which action to be carried out to when certain event occurs. Users can select

Record, Broadcast, Email, Send SMS or Send Pager as the warning message. Events are divided into three types of icons:

- Severity (red),
- Warning (yellow), and
- Message (blue)



Note: To use **Email** function, you must setup an available SMTP server. For detailed information please refer to "How to realize sending event message by e-mail".

Shutdown Settings

To open this option, selects Shutdown Parameter from the UPS menu.

Shutdown Options	
COM4 OFF-LINE	
Battery Backup Time	10 ÷min
Shutdown Immediately while Battery Low	
Begin Shutdown when UPS Battery is at 40 🚽 ful	I Capacity or lower
🗆 System 🙃 Shutdown 🔿 Suspend	
System shutdown need time	2 🕂 min
Accept Remote Shutdown signal from other Agent	Add
i	Remove
Run Command File before Shutdown	Browse
Shutdown File Max Execution Time	i - Amin
Shutdown File Max Execution Time	1 <u>⇒</u> min
Shutdown File Max Execution Time hutdown Remote Agents	i zmin
Shutdown File Max Execution Time ihutdown Remote Agents Shutdown Conditions Agent is shutdow	vn <u>A</u> dd
Shutdown File Max Execution Time hutdown Remote Agents Shutdown Conditions Agent is shutdow	wn <u>A</u> dd
Shutdown File Max Execution Time :hutdown Remote Agents Shutdown Conditions Agent is shutdov	vn <u>A</u> dd <u>M</u> odify
Shutdown File Max Execution Time hutdown Remote Agents Shutdown Conditions Agent is shutdow	vn <u>A</u> dd <u>M</u> odify <u>R</u> emove
Shutdown File Max Execution Time hutdown Remote Agents Shutdown Conditions Agent is shutdow	vn <u>A</u> dd <u>Modify</u> <u>R</u> emove
Shutdown File Max Execution Time hutdown Remote Agents Shutdown Conditions Agent is shutdow hutdown Alarm Parameters	min <u>A</u> dd <u>M</u> odify <u>R</u> emove
Shutdown File Max Execution Time ihutdown Remote Agents Shutdown Conditions Agent is shutdow ihutdown Alarm Parameters Shutdown Alarm Interval	vn <u>A</u> dd <u>M</u> odify <u>R</u> emove
Shutdown File Max Execution Time shutdown Remote Agents Shutdown Conditions Agent is shutdow hutdown Alarm Parameters Shutdown Alarm Interval Scheduled Shutdown Countdown warning	min <u>A</u> dd <u>Modify</u> <u>Remove</u> 1fmin 10min

Read the followed table for detailed information about Shutdown Options in Shutdown Settings.

Parameter	Unit	Maximum Value	Minimum Value	Default	Remark
Battery backup time	Minute	4320	1	10	The time that the UPS battery is able to supply power when utility power fails.
Shutdown immediately while battery low	_	_	_	Yes	When this check box is selected and battery low event occurs, Agent will shut down the UPS immediately, otherwise the shutting down time will be controlled by battery back up time.

Parameter	Unit	Maximum Value	Minimum Value	Default	Remark
Begin shutdown When UPS Battery X full capacity or lower	_	—	—	40	When this check box is selected and battery's capacity is lower than X%, Agent will shut down the UPS.
Shutdown System	_		—	No	When this option is selected, system will shutdown while the assigned UPS is being turn off.
Suspend System	_	_		No	When this item is selected, system disk will suspend to shutdown sequence. This function only can be carried out on some Windows platforms and hibernate support must be enabled from /Control Panel / Power Options / Hibernate.
System shutdown need time	Minute	99	1	2	The time needed to shutdown the system, which is from the beginning of shutting down till the end of that.
Remote Shutdown by Agent	—	_	—	No	If enabled, the system will be able to shutdown by a specified Agent.
Min shutdown system	Minute	4320	0	0	When receiving the specified agent's shutdown signal, the set minutes will be delayed and then shutdown the system.
Run Command File before Shutdown	_		_	N/A	The Agent will run the specified file and then shut the system down. If this parameter is not available, the Agent will not shutdown the system.
Shutdown File Max Execution Time	Minute	60	1	1	Before the system shuts down, the set time will be needed to execute the specified file.
Shutdown remote Agents' Conditions	_	_	—		The condition can be UPS be shutdown or The time on battery exceeds setting time.
Agents be Shutdown	_		_		When shutdown is complete, the Agent will send shutdown signal to the assigned remote agents.
Shutdown Alarm Interval	Minute	60	1	1	The interval that Agent pops up an alarm message before shutting down.
Start Warning before Scheduled Shutdown	Minute	60	1	10	If user has setup schedule shutting down, an audio warning message will be heard.

Note: If **OK** is not available, which means your access authority right of the current Agent is "Read Only", and you can't change the settings here. To log in as an administrator, refer to *on page 14* for detailed information.

For example, the Battery Backup Time is set to 3, System shutdown need time is set to 2, then click the OK. Once AC failed, a warning dialog which noticed shutdown appeared, the value of the time in the warning dialog is 3 minutes initially which equals battery backup time, then count down. 3 minutes later, the time in the warning dialog is 0, and then the software will send an shutdown command to UPS.2 minutes later, the output of UPS in off.

It takes 2+3=5 minutes totally to shutdown the output of UPS.

For "Run command file before shutdown" option, check it and select a bat, script, exe or other file, then before the shutdown, the software will execute or open it for you.

UPS Self-Test

To open this option, selects **Battery Self-Test Now** from **UPS** menu. In this window, users can select from three different types of test:

- Self-Test for 10 seconds,
- Self-Test until battery low,
- Self-Test for xx minutes.
 - The time range for this item is from 1 to 99 (minutes).

UPS Self-Test	× × × × × × × × × × × × × × × × × × ×
Once	
	YEAR MONTH DAY
Start Date	2004 💌 11 💌 22 💌
Start Time	13:52:54
Self-Test 10 s	ecs
C Self-Test until	battery low
C Self-Test	10 Mins
Select the UPS to	be tested
COM2	ON-LINE
	<u>S</u> elect All
	Purge All
	OK <u>C</u> ancel

Note: If OK is not available, which means your access authority right of the current Agent is "Read Only", and you can't change the settings here. To log in as an administrator, refer to *on page 14* for detailed information.

UPS Test Manager

To open this option, selects **Battery Self-Test Schedule** from **UPS** menu. **UPS Test Manager** can be used to display and setup UPS self-test task. There are two types of the task: **Once** or **Monthly**.

UPS self-test can be set as

- UPS self test for 10 seconds,
- UPS self test to battery low, or
- UPS self test for the appointed time. The time range for this item is from 1 to 99 (minutes), and the default value is 10 (minutes).

	r		-	2004				-		
Sun	Mo	n	Tue	Wed	Tł	nu	Fri	Sat		<u>0</u> K
	1		2	3	4	86	5	6		Concol
7	8		9	10	11		12	13		
14	15		16	17	18		19	20	Sy	mbol
21	22	•	23	24	25		26	27	•	UPS Power Off
28	29		30							UPS Power On
									•	UPS Test
ask List										
Тур	e	0	Date	Start Tir	ne	0	perate	Delay	Time	Operated UPS
nce		2004	/11/22	13:08:39		Self-	Test	Self-Test 1	0 secs	ON-LINE in COM1

Two parts are in the UPS Test Manager window, **Calendar** and **Task List**. All UPS self-test and UPS OnOff tasks are shown in the calendar. The red dot presents the **Power Off** action, the green dot presents the **Power On** action and the blue dot presents the UPS test task. Click **Add Task** to add a new self-test task into the schedule.

If you select any of the UPS self-test tasks from the task list, the selected task can be modified by click **Modify** at the bottom of the window, and the task can be also removed by clicking **Remove**.

Note: If **OK**, **Add Test**, **Modify** and **Remove** are not available, which means your access authority of the current Agent is "Read Only" and the settings can't be changed. To log in as an administrator, refer to *on page 14* for detailed information.

UPS OnOff Manager

To open this option, selects **UPS OnOff Schedule** from **UPS** menu. UPS OnOff Manager can be used to display and set UPS OnOff tasks. Two methods to set this manager: **Once** or **Weekly**.

The UPS power off time range (from shutdown to turning on next time) can be set from 1 to 9999 (minutes). For example, the longest power off time is 6 days 22 hours and 39 minutes. The input range for the year is 2002-2035. UPS OnOff Manager contains **Calendar** and **Task List**. All UPS self-test and UPS OnOff tasks are shown in the calendar. The red dot presents the **Power Off** action, the green dot presents the **Power On** action and the blue dot presents the UPS test task. Click **Add UPS OnOff** to add a new self-test task into the schedule.

UP	IPS OnOff Manager													
P	November	8			-	2004				*				
Γ	Sun	Мо	n	Tue	9	Wed	Tł	าน	Fri	Sat			<u>0</u> K	
		1		2		3	4	8	5	6			Consol	
	7	8		9		10	11		12	13				
	14	15		16		17	18		19	20		Symb	ol	
	21	22	•	23	:	24	25		26	27		🔶 UF	PS Power Off	
	28	29		30								• UF	PS Power On	
												• UF	PS Test	
Т	ask List													
Γ	Туре	9		Date		Start Tin	ne	0	perate	Delay	īme		Operated UPS	Ī
0	Once		200	4/11/23	3	13:09:49		Shut	off UPS	75Mins		ON	I-LINE in COM1	
ŀ					_							_		-
ŀ					-							-		
ŀ			-		-									
ŀ									1					
	Add	UPS C	nOff]			Mod	lify				Remo	ove	

Users can add new weekly and special time UPS Power OnOff tasks by clicking Add UPS OnOff at the bottom of the window.

If you select any of the UPS self-test tasks from the task list, the selected task can be modified by clicking **Modify** at the bottom of the window, and the task can be also removed by clicking **Remove**.

Note:

1. The set UPS self-test task and UPS Power On/Off tasks can't interfere with each other.

2. If **OK**, **Add Test**, **Modify** and **Remove** are not available, which means your access authority of the current Agent is "Read Only" and the settings can't be changed. To log in as an administrator, refer to *on page 14* for detailed information.

Schedule Viewer

To open this option, selects View Schedule from UPS menu.

This function is used to show the set UPS Power OnOff and self-test tasks. The window contains Calendar and Task List. Only the tasks in the current month are displayed in the list. The red dot presents the **Power Off** action, the green dot presents the **Power On** action and the blue dot presents the UPS test task.



Tools Menu

Broadcast Message Settings

To open this option, selects **Broadcast Setting** from **Tools** menu, or click Setting of Broadcast item in the window.

Event Action			
Event List			
🗵 UPS Battery Low		✓ Record	
🔇 UPS Battery Time Exhaust	1	Broadcast	Setting
😢 UPS hardware breakdown		- EMail	Setting
😢 UPS Output Overload		= 0	Octing
🔥 Communication Lost		Peuro 2002	Setting
🔥 AC Fail	I	Send <u>P</u> ager	Setting
🔥 On Bypass			
🔥 Bypass without output			
🔥 Self-test Fail			
🔥 Phase sequence input error			
🔥 Battery connection fail			
🔥 Load unbalance			
🔥 Over load			
🔥 Internal warning			
🔥 Maintain cover is opened			
🔥 Bypass not available			
AC Restore			
Communication establish	-	OK	Cancel

All users will be listed under **Broadcast To.** A specified user must be assigned if the broadcast message needs to be sent. Adds or removes a user by clicking **Add** or **Remove** on the right in the window.

Note: All Users and Domain User item can't be deleted. All Users means all computers in the LAN. Domain User means computers in the same domain with local Agent.

Send Message list box contains all types of messages. Selects or unselects a message by checking in front of the item.

Note:

- 1. This setting is only available in **Windows** OS.
- 2. If **OK**, **Add Test**, **Modify** and **Remove** are not available, which means your access authority of the current Agent is "Read Only" and the settings can't be changed. To log in as an administrator, refer to *on page 14* for detailed information.

To receive broadcast message, **Winpopup** in Windows 95 / 98 and **Messenger Service** in Windows NT / 2000 must be enabled. In Vista, because of the cancel of Messenger Service, the message can not be received.

Broadcast Tessage Settings	
Broadcast To	
All Users	
🔽 🛛 Domain User	
	Add
	<u></u>
	Remove
Send message	
UPS Battery Low	A
🔲 UPS Battery Time Exhaust	
UPS hardware breakdown	i i i i i i i i i i i i i i i i i i i
UPS Output Overload	
Communication Lost	
C Fail	
🔽 On Bypass	
Bypass without output	
🔽 Self-test Fail	
Phase sequence input error	
Battery connection fail	
Load unbalance	
Over load	
Internal warning	
J Maintain cover is opened	•
<u>O</u> K <u>C</u> an	el

Email Settings

To open this option, selects **Email Settings** from the **Tools** menu, or click **Setting** of Email item in the window.



The SMTP Server Settings of Email Settings are listed below:

SMTP Server	Enter a mail account server, which is used to send mails. This will be different from the Network provider. E.g.: smtp.belkin.com
SMTP User	Enter the complete mail address of a user here. E.g.: test@belkin.com
Password	Enter the password that assign by your Network provider.

Receiver EMail Address contains all mail addresses which will receive the email message. To add a new email address, click Add. To delete a mail address, click Remove. To test if a selected mail address will receive the assigned message successfully, click Test.

Send Message list box contains all types of messages. Selects or unselects a message by checking in front of the item.

Default setup of all entries will be empty, and it can only be set in the local Agent.

1. If you want to send emails via Internet, you must have a SMTP account number in the Internet.

2. If **OK** is not available, which means your access authority of the current Agent is "Read Only" and the settings can't be changed. To log in as an administrator, refer to *on page 14* for detailed information.

SMS Setting

To open this option, selects SMS Setting from the Tools menu, or click Setting of Send SMS in the window.

		SES Setting	
Event Action	×	Sender Com Port	COM1
Event List UPS Battery Low UPS Battery Time Exhaust UPS hardware breakdown UPS Notput Overload Communication Lost AC Fail On Bypass Bypass without output Self-test Fail Phase sequence input error Battery connection fail Load unbalance Over load Internal warning Maintain cover is opened Bypass not available AC Restore	✓ Record Broadcast Setting ► Mail Setting Send SMS Setting Send Pager Setting	Baud Rate Receiver Add Remove Test Send message UPS Batt UPS Narc UPS Out A C Fail	9600 9600 Prove the set of th
Communication establish	<u>O</u> K <u>Cancel</u>	<u>0</u> K	Cancel

To configure SMS setting, read the contents below:

Sender

SMS is sent via GSM modem or mobile phone which connects to your computer. Users need to select the **COM port** which is being used by GSM Modem or mobile phone. Then set baud Rate of this COM port.

Receiver:

The mobile phone numbers which will receive the SMS.

- To add a phone number, enter the number first and then click **Add**.
- To delete a number, select a number from the phone number list and click **Remove**.
- To test if the SMS sending will be success or not, select a phone number from the list, and click **Test**.

Send message

Send Message list box contains all types of messages. Selects or unselects a message by checking in front of the item.

Note: If OK is not available, which means your access authority of the current Agent is "Read Only" and the settings can't be changed. To log in as an administrator, refer to *on page 14* for detailed information.

Pager Setting

To open this option, selects **Pager Setting** from the **Tools** menu, or click **Setting** of **Send Pager** item in the window.

Note: To configure the pager setting, users must have full access authority.

vent Action			<u> </u>					
Event List								
🗵 UPS Battery Low	-	Record		Pager Setting				Ľ
😫 UPS Battery Time Exhaust		🔽 Broadcast	Setting	Modern Port	COM:	1		
😣 UPS hardware breakdown		E EMail	Setting	modomiron	loom	·		
😣 UPS Output Overload			Cotting	Access Number	192	Wait	0 ÷sec	
🔥 Communication Lost		j <u>o</u> enu omo	Seung	Pager Number	1234	567 Wait	0 -sec	
🔥 AC Fail		Send Pager						
🔥 On Bypass				🔽 Dialing	9 to exterior	r line Wait	1 ÷sec	
🔥 Bypass without output								
🔥 Self-test Fail				IV Dialing	# 💌 after mes	sage		
🔥 Phase sequence input error	_							
🔥 Battery connection fail								
🔥 Load unbalance				Send	Event Cod	ie Eve	nt Name	
🔥 Over load					101	UPS AC power fa	1	
🔥 Internal warning				Г	102	UPS battery low		
🔥 Maintain cover is opened					103	UPS hardware br	reakdown	
🔥 Bypass not available					104	UPS output overlo	pad	
🚹 AC Restore				1				
Communication actablich		01/			1 1	Tect	Consol	

Item	Description				
Modem Port	Select the COM port which is connecting to the modem recently.				
Access Number	For some pager service, a delay is needed between dialing access number and Pager Number.				
Pager Number	For some pager service, a delay is needed between dialing pager number and message code.				
Dialing number to exterior line	For extension line, it is always necessary to dial a specified number and delay a specified time to access Exterior Line.				
Dialing number after message	For some pager service, dialing a specified number to end message code is needed.				
Event Code	The event code is dialed as the message code and will be displayed on pager.				
Note: If OK is not available, which means your access authority of the current Agent is "Read Only" and the settings can't be changed. To log in as an administrator, refer to <i>on page 14</i> for detailed information.					

Monitor Menu

Monitor Remote UPS

To open this option, select **Monitor Remote UPS** from the **Monitor** menu.

Enter the IP address of an Agent to be monitored and click **OK**. If the agent exists, the information will be displayed under the WAN directory in the tree menu in Belkin APM Software Manager.

۲	lonitor Remote UPS		×					
	Enter IP address of agent							
	IP Address	202.103.168.210						
	<u>0</u> K	<u>C</u> ancel						

Note:

- 1. The maximum of remote agent can be monitored is **32**.
- 2. If Belkin APM Software can't communicate with a remote agent within **6** minutes, this agent will be deleted automatically.

You can manually delete a remote agent by selecting the agent node under "WAN", and then click the

mouse right button to show a delete pop up menu, select Delete to remove it.

Preference Menu

Bottom image

To open this option, selects **BottomImage** from the **Preference** Menu.



Temp

To open this option, selects **Temp** from the **Preference** menu, and selects which type of temperature you want to show on the interface: **C** (Centigrade), or **F** (Fahrenheit).

🖉 Belkin Automatic 🛛	Power Managemer	nt Software ¥2.2	RDCR-Chris (Re	ad only)		
System Logs <u>U</u> PS <u>T</u> ools	Monitor Preference	Language <u>H</u> elp				
📢 🖫 🗅 🖬 📰 🤶	BottomI	mage 🕨				
🌳 🕁 Root	UPS Stat Temp	• • <u>c</u>	1		13	:58
ଡ଼ 🚅 LAN	DateFor	mat • O • <u>F</u>				
≣ zoe ■ stkr-rd2b	Voltage Advance	Settings		Voltage	221.0	A
RDCR-jians				Frequency	50.0	Hz
📕 stkr-yinf			Discharge	Load%	0 60	vv •/
🗢 📕 RDCR-Chris			00:00:00	Louiv	0.0	70
C- 📇 Beth					12	
	AC LINE		UPS		D 6%	
					0.9	
			_			
	Model	OFF-LINE		Voltage	13.5	A
	Com Port	COM4	BATTERY	Standard	12.0	V
	Temp.	25.0 °C	100%	Capacity	100.0	%
BELKIN.	1					
						_
	2006/07/11 13:44:40 S	itart Agent				

Date Format

To open this option, selects **DateFormat** from the **Preference** Menu.

Y represents the year, M represents the month, and D represents the date.



Advance Settings

To open this option, selects Advance Settings from the Preference menu.

The General Tab

You can set the color of general text, the color of warn text, and the font.

The BottomImage Tab

If you click None on the top of this tab, the interface bottom image

In this tab, users can set the **Color**, **Gradient**, **Text**, and **Grid** color of the Belkin APM Software interface. Users can also set a preferred image as the bottom image. Click Picture, and select an image file from the pull-down menu.

Advance Settings	×	Advance Settings
General BottomImage		General Bottomimage
© None		
C Color G ◀ ▶ 255 B ◀ ▶ 255		General Text Color Warn Text Color
$ \begin{array}{c c} R & \bullet & \bullet \\ \hline \hline & \bullet \\ \hline \hline \hline & \bullet \\ \hline \hline \hline & \bullet \\ \hline \hline \hline \hline & \bullet \\ \hline \hline \hline \hline \hline \hline & \bullet \\ \hline \hline$		R > 0 FestTes R > 255 FestTes G > 0 FestTes G > 0 FestTes B > 0 FestTes B > 0 FestTes
R ◀ ▶ 192 Winpower C Text G ◀ ▶ 192 Winpow B ◀ ▶ 192 ₩ 192 ₩ 192 B ◀ ▶ 192 ₩ 192 ₩ 192		Serif 3aA,.*3aF 3aA,.*3aF 3aA,.*3aF
R ≤ ▶ 192 Offset 0 C Grid G ≤ ▶ 192 20 50 B ≤ ▶ 192 ✓ Øfset ✓		
C Picture		
Default		Default
<u>OK</u> <u>Cancel</u> Apply		<u>OK</u> <u>Cancel</u> <u>Apply</u>
Note:		

- 1. If you click "Default" button, the parameters in this view will be turned into default value.
- 2. If **OK** is not available, which means your access authority of the current Agent is "Read Only" and the settings can't be changed. To log in as an administrator, refer to *on page 14* for detailed information.

Language Menu

Language

Users can change the interface language from the **Language** menu. English, Chinese(Traditional), Chinese(Simplified), German, French, Italian, Spanish, Turkish or Portuguese is available.



Chapter 4 How to do

Realizing the assigned COM port

When the PC with Belkin APM Software has multiple serial ports, the Belkin APM Software allows the user to change the current used serial ports of the UPS via **Auto search UPS** under the **System** menu.



There is a tree menu in the left column to display a hierarchical list of items, such as Root, networks, the Agents, the COM port and the UPS models. By clicking an item, the user can expand or collapse the associated list of submenus.



When selecting a UPS model, the **Manager** Window shows detailed information about the UPS in the right column.

Note:

- 1. It will take more time when starting the Agent for the first time, for it communicates with the UPS for the first time. The software will keep records of a certain UPS model. When the Agent runs the second time, the Belkin APM Software will starts according to the previous record, and the boots-up speed will be much faster.
- 2. To change the UPS COM port, the model, or slave address, selects Auto Search UPS from the System menu.

Realizing the broadcasting message in the LAN

Belkin APM Software has the function of sending the event message to customers in time via Windows Message service. Please refer to

Broadcast Message Settings on page 25 for detailed information, or refer to the Appendix B, Belkin APM Software Event table.

		Divaucasti
All Users	The assigned messages will be sent to all PCs in the same Network with the host PC, whether it's in the same domain or not. With reference to the range of broadcasting, there are altogether three options: all users, Domain users and special users.	
Domain User	The assigned messages will be sent to PCs in the same NT domain with the host PC.	Send messa
Special Users	The assigned messages will only be sent to certain appointed user(s). To add or remove a user, please refer to	UPS Nate UPS Outp Commun AC Fail
	Broadcast Message Settings on page 25.	F Bypass v Self-test F Phase se

Broadcast Message Settings	
Broadcast To	
All Users	
Domain User	
	Add
	Remove
Send message	
UPS Battery Low	<u> </u>
UPS Battery Time Exhaust	
VPS hardware breakdown	
UPS Output Overload	
Communication Lost	
C AC Fail	
🔽 On Bypass	
🔲 Bypass without output	
🖵 Self-test Fail	
F Phase sequence input error	
Eattery connection fail	
🖵 Load unbalance	
Cver load	
Internal warning	
Maintain cover is opened	
<u> </u>	<u>C</u> ancel

There are three group lists for Broadcast to column:

Note: For detailed operation of how to broadcast messages, please refers to **Broadcast Message** Settings **on page 25**.

Realizing the UPS self-test schedule

To open this option, selects UPS Test Manager in Battery Self-Test Schedule from the UPS menu.

Adding new UPS self-test tasks

To add a new UPS self-test task:

- 1. Click on the empty **Task List** first and then click **Add Test** at the bottom of the window.
- 2. Click **OK** when the adding is complete.

overnbe	r	•	2004			-	
Sun	Mon	Tue	Wed	Thu	Fri	Sat	<u>0</u> K
	1	2	3	4	5	6	Cancel
7	8	9	10	11	12	13	
14	15	16	17	18	19	20	Symbol
21	22	23	24	25	26	27	UPS Power Off
28	29	30					UPS Power On
							🔶 UPS Test
ask List							
Тур	e	Date	Start Tin	ne C	perate	Delay Tir	ne Operated UPS

Modifying UPS self-test task

To modify a set task:

- 1. Select one set UPS self-test task from the **Task List** area, and click **Modify** at the bottom of the UPS Test Manager window. The **UPS Self-Test** window pops up.
- 2. Click **OK** to save the modification, or **Cancel** to exit.
- 3. Click **OK** in the UPS Test Manager window to complete modifying a set task.

UPS Test M	anager				UPS Self-Test	×
Novembe	r	-	2004		Once 💌	
Sun	Mon	Tue	Wed	Thu	YEAR MONTH DAY	
12	1	2	3	4	Start Date 2004 🔽 11 💌 22 💌	
7	8	9	10	11	Start Time 13:52:54	
14	15	16	17	18	·	
21	22	• 23	24	25	Self-Test 10 secs	
28	29	30			C Self-Test until battery low	
					C Self-Test 10 🗄 Mins	
l Task List					Select the UPS to be tested	
Тур	e	Date	Start Tir	me Oper	COM2 ON-LINE	
Once	1	22/11/2004	13:52:54	Self-Tes		
					Select All	
					Purge All	
	<u>A</u> dd Test		\leq	Modify	OK Cancel	

Removing set UPS self-test tasks

To remove a set UPS self-test task:

Select a set task in the **Task List** area, and then click **Remove** at the bottom of the window. The selected item will be deleted.

UPS Test Ma	nager							
November	2	-	2004			×		
Sun	Mor	n Tue	Wed	Thu	Fri	Sat	1	<u>0</u> K
	1	2	3	4	5	6		Concol
7	8	9	10	11	12	13		
14	15	16	17	18	19	20	Symb	0
21	22	• 23	24	25	26	27	e u	PS Power Off
28	29	30					• U	PS Power On
							• U	PS Test
l Task List								
Туре		Date	Start Tir	me	Operate	Delay Tir	ne	Operated UPS
Once		22/11/2004	13:52:54	S	elf-Test	Self-Test 10	secs OM	V-LINE in COM2
		3						
		4						
<u>A</u>	dd Tes	t		Modifi		\leq	Rem	ove

Note: If **OK** is not available, which means your access authority of the current Agent is "Read Only" and the settings can't be changed. To log in as an administrator, refer to *on page 14* for detailed information.

Realizing the UPS OnOff Manager

To open UPS OnOff Manager, select UPS OnOff Manager from the Control menu.

UPS OnOff	Manager						×
Novembe	er	-	2004			-	
Sun	Mon	Tue	Wed	Thu	Fri	Sat	<u>0</u> K
	1	2	3	4	5	6	Canad
7	8	9	10	11	12	13	<u>Cancer</u>
14	15	16	17	18	19	20	Symbol
21	22	23	24	25	26	27	UPS Power Off
28	29	30					UPS Power On
							UPS Test
TaskList							
Ту	pe	Date	Start Tin	ne C	perate	Delay Tir	me Operated UPS
Ac	ld <u>U</u> PS OnOf	f		<u>M</u> odify			Remove

Note: If **OK** is not available, which means your access authority of the current Agent is "Read Only" and the settings can't be changed. To log in as an administrator, refer to *page 14* for detailed information.

Adding new UPS OnOff tasks

To add a new UPS OnOff task:

- 1. Click on the empty **Task List** first and then click **Add UPS OnOFF** at the bottom of the window. The **Off UPS** window pops up.
- 2. Select **Once** or **Weekly** as the cycle of UPS OnOff from the pull-down menu.
- 3. Set up the **Power Off Once (Weekly) / Power On Once (Weekly)** time in the Schedule off UPS area.

PS OnOff M	Manager		Off UPS	2
Novembe	er	-	Once	
Sun	Mon	Tue	-Schedule Off LIPS	
	1	2		
7	8	9		-
14	15	16		<u> </u>
21	22	23	14:10:36	
28	29	30		
			YEAR MONTH DAY	
			2004 11 122	
ask List			15:25:36	
Тур	pe	Date		
			Select the UPS to be turned off	
			COM2 ON-LINE	
			Select Al	
Ad	d UPS OnO	f		
~			Purge Al	I
			OK Cancel	

Note: Any new UPS OnOFF task can't conflict with the set UPS self-test and UPS OnOff tasks.

- 4. To save this new task, click **OK**. Or click **Cancel** to exit this window.
- 5. Click **OK** in the UPS OnOff Manager window to complete adding a new OnOff task.

							-		-	
PS UnUff M	anagei	•								×
November			-	2004				<u>+</u>		
Sun	Mo	n	Tue	Wed	TI	าน	Fri			
	1		2	3	4	<i></i>	5	6		[
7	8		9	10	11	1	12	13		Cancel
14	15		16	17	18		19	20	_S'	ymbol
21	22	•	23	24	25		26	27		UPS Power Off
28	29		30							UPS Power On
										UPS Test
i Task List										
Тур	в		Date	Start Tim	пе	0	perate	Delay	/ Time	Operated UPS
Once		22/1	1/2004	14:10:36		Shut off UPS		75Mins		ON-LINE in COM2
<u> </u>										
-										
}							(
Add	UPS C	nOff			Mod	lify			R	Remove

Modifying set UPS OnOff tasks

To modify a set task:

- 1. Select one set UPS OnOff task from the Task List, and click **Modify** at the bottom of the UPS OnOff Manager window. The **Off UPS** window pops up.
- 2. After the modification is done, click **OK** to confirm.
- 3. Click **OK** in the UPS OnOff Manager window to complete modifying a set OnOff task.

UPS OnOff №	1anager	8					Off UP5
Novembe	r		-	2004			Once
Sun	Mor	1	Tue	Wed	Т	hu F	Schedule Off UPS
	1		2	3	4	5	YEAR MONTH DAY
7	8		9	10	11	12	Power Off Once 2004 11 22 1
14	15		16	17	18	19	
21	22	:	23	24	25	26	14:10:36
28	29		30				YEAR MONTH DAY
							Power On Once 2004 11 22 1
r Task List							
Тур	e		Date	Start Tir	ne	Operat	15:25:36
Once		22/1	1/2004	14:10:36		Shut off U	Onland the LIDO to be formed off
			- (·			Select All
Ado	1 <u>U</u> PS O	nOff		\sim	Mod	lify	Purge All
							OK Cancel

Removing the UPS OnOff task

To remove a set UPS OnOff task:

Select a set task in the **Task List** area, and then click **Remove** at the bottom of the window. The selected item will be deleted.

UPS OnOff M	lanager										×
November	•	-	2004				*				
Sun	Mon	Tue	Wed	Th	u	Fri	Sat			<u>0</u> K	
	1	2	3	4	00	5	6			Concol	
7	8	9	10	11		12	13			Cancer	
14	15	16	17	18	0	19	20	Sy	mbol		
21	22	23	24	25		26	27	•	UPS	3 Power Off	
28	29	30							UPS	8 Power On	
								•	UPS	3 Test	
i Task List											
Тур	e	Date	Start Tin	ne	0	perate	Delay	Time		Operated UPS	T
Once	22	2/11/2004	14:10:36		Shut	off UPS	75Mins		ON-I	LINE in COM2	
											-
											-
		1									
Add	IUPS OnC	Dff		Mod	ify		9	Re	emov	e de la constante de la consta	

Realizing the network shutdown function

To open this option, select **Shutdown Parameter** from the **UPS** menu, and the **Shutdown Settings** window pops up.

Shutdown Settings	
Shutdown Options	
COM4 OFF-LINE	
Battery Backup Time	10 ÷min
☑ Shutdown Immediately while Battery Low	
☐ Begin Shutdown when UPS Battery is at 40	lower
🗆 System 📀 Shutdown 🔿 Suspend	
System shutdown need time	2 📩 min
C Accept Remote Shutdown signal from other Agent	Add
🚺 🕂 min shutdown system	Remove
Run Command File before Shutdown	Iro <u>w</u> se
Shutdown File Max Execution Time	li ∃min
Shutdown Remote Agents	
Shutdown Conditions Agent is shutdown	Add
	Modify
	Mouny
	Remove
Shutdown Alarm Parameters	
Shutdown Alarm Interval	1 min
Scheduled Shutdown Countdown warning	10min
<u>O</u> K <u>C</u> ancel	

Configuring Shutdown Settings

Adding new agent IP address

To add a new Agent IP:

- 1. Click **Add** in the **Shutdown Options** section and then enter the IP address in Agent's IP address prompt.
- 2. Click **OK** at the bottom of this prompt to save this new Agent IP.

When local agent receives a specified agent shutdown signal, the system will be shut down in a set delay time.

Aç	gent's IP address	×
	Enter IP address of agent IP Address	
	<u>O</u> K <u>C</u> ancel	

Configuring Shutdown Remote Agents

To add a new shutdown remote agent:

- 1. Click Add in the Shutdown Remote Agents section and a Shutdown Remote Agents prompt pops up.
- 2. Set the conditions options from the pull-down menu, and from which agent to be shut the system down.
- 3. Click **OK** in this prompt to save the setting.

Shutdown Remote Agents	×
Shutdown Conditions COM4 OFF-LINE Shutdown Discharge 10 min	
Agent is shutdown 192.168.3.123 Add <u>R</u> emove	
<u>O</u> K <u>C</u> ancel	

Configuring Shutdown alarm Parameters

Shutdown options

Battery backup time	The time the UPS battery is able to supply power when utility power fails.	
Begin shutdown When UPS Battery X full capacity or lower	When this check box is selected and battery's capacity is lower than X%, Agent will shut down the UPS.	
Shutdown immediately while battery Low	When this item is enabled and battery low event occurs, Agent will shut down the UPS immediately, otherwise the shutting down time will be controlled by battery back up time.	
Shutdown system	When this check box is selected, System will be shutdown while the appointed UPS is being turn off.	
Suspend system	When this item is enabled, the system will be suspended via disk in shutdown sequence. This function is only for certain Windows platforms and hibernate support must be enabled from /Control Panel/Power Options/Hibernate .	
System shutdown need time	The time needed to shutdown the system, which is from the beginning of shutting down till the end of that.	
Remote shutdown by Agent	When this item is enabled, the system will be shut down by other Agent.	
XX min shutdown system	When receiving the specified agent shutdown signal, the set time (minutes) will be delayed to shutdown system.	
Run command file before shutdown	Before system shutting down, Agent can execute a file, if this parameter is not available; Agent will not begin to shut down the system until the "Execution file before system shutting down" ends.	
Shutdown file Max execution time	Before system shutting down, the time to be needed to execute the shutdown file.	
Shutdown Remote Agents		
Shutdown remote Agents Conditions	The condition can be "UPS be shutdown" or "The time on battery exceeds setting time".	
Agents be shutdown	When shutdown condition is satisfied, Agent will send shutdown signals to the appointed remote Agent.	
Shutdown Alarm Parameter	rs	
Shutdown alarm interval	The interval that Agent pop up an alarm message before shutting down	

Shutdown alarm Interval	The interval that Agent pop up an alarm message before shutting down.
Start warning before	If the user has set a schedule shutting down, AGENT will sound alarm prior
scheduled shutdown	to the set time.

Modifying UPS control parameters

ON-LINE UPS:

To open this option, select **UPS control parameters** from the **UPS** menu. The **UPS Control Parameters** window pops up.

UPS Control Parameters			
Input Frequency Range	Lower Limit(40.0 49.0) Upper Limit(51.0 60.0)		46.0 Hz
Voltage Range on Bypass	Lower Limit(80 219) Upper Limit(221 286)		80 · V 265 · V
Panel Control			
Allow OFF-Key to Enable/Disable Audible. Warning When UPS Works on Bypass		C Yes	No
Allow ON-Key to Enable/Disable Audible Warning When UPS Works on Battery Mod	le	C Yes	No
Audible Warning			
Bypass Audible Warning		💿 On	C Silent
Battery Mode Audible Warning		C On	Silent
Operation Option			
Work On Bypass When UPS Turned Off		@ Yes	C No
Auto Reboot UPS When AC Input Restore	d	C Yes	No
	<u>o</u> k	<u>C</u> ancel	

Read the table followed for detailed information.

Options	Explanation
The limit value of the input frequency	When the frequency of the utility power is out of this range, UPS will count it abnormal and switch to battery supply.
The limit value of the bypass voltage	When UPS supplies in bypass mode, if the utility voltage is out of this range, UPS will cut off bypass output
Allow OFF-Key to enable / disable audible warning when UPS works on bypass	When Yes is enabled: UPS is supplied by bypass, users can turn off the bypass audible alarm (beep once every 2 minutes) by pressing OFF button on the UPS panel for one time, and pressing one more time to recover it. When No is enabled: the "OFF" button on the UPS panel cannot be used to control bypass audible alarm on/off.
Allow ON-Key to enable / disable audible warning when UPS works on battery mode	When Yes is enabled: UPS is supplied by batteries, users can turn off the audible alarm (beep once every 4 seconds) supplied by batteries by pressing "ON" button on the UPS panel for one time, and pressing one more time the audible alarm can be turned on again.
	control the audible alarm supplied by batteries on/off.
Bypass audible warning	When Yes is enabled: UPS is supplied by bypass, it is allowed to have bypass audible alarm. When Silent is enabled: UPS is supplied by bypass, it is not allowed to have audible alarm, at this time the "OFF" button on the UPS panel cannot
	turn on the bypass audible alarm.

Options	Explanation
Battery mode audible warning	When Yes is enabled: UPS is supplied by batteries, it is allowed to have audible alarm of battery supply.
	When Silent is enabled: UPS is supplied by battery, it is not allowed to have audible alarm of battery supply. At this time the "ON" button on the UPS panel cannot turn on the audible alarm of battery supply.
Work On Bypass When UPS Turned Off	When Yes is enabled: UPS is not turned on, it is in the mode of bypass supply.
	When No is enabled: UPS is not turned on, no bypass output is offered.
Auto Reboot UPS When AC Input Restored	When Yes is enabled: UPS is shutdown for the backup time is exhausted or the battery is in low capacitance, once the utility power is recovered, UPS can restart automatically to the normal operating mode.
	When No is enabled: the utility power is recovered, UPS cannot restart automatically but in the mode of being not turned on.

- Click **OK** button to save changes.
- Click **Cancel** to exit the prompt.
- Click **Default** to return all settings to default setting.

For ON-LINE UPS, user can enable / disable battery mode alarm audible though this prompt.

ters		2
Mada Audible Worming/A	lorm/Oilont	
Mode Audible Warning(A	larm/Silent)	
OK	Cancel	
	y Mode Audible Warning(A	y Mode Audible Warning(Alarm/Silent)

- Click **OK** button to save changes.
- Click **Cancel** to exit the prompt.

Note: If **OK** is not available, which means your access authority of the current Agent is "Read Only" and the settings can't be changed. To log in as an administrator, refer to *on page 14* for detailed information.

Realizing system administrator and password

Configuring system administrator

To open this option, select **Act as Administrator** from the **System** menu. The Administrator prompt pops up.

Admi	nistrator		×
Pas	sword:		
	<u>0</u> K	<u>C</u> ancel	

Enter the system administrator password in the prompt and click **OK**, and then the user logs in as an administrator. If the password is not correct, an alert prompt will popup.



Modifying the system administrator password

To open this option, select Modify Administrator Password from the System menu. The Administrator Password Settings pops up.

- 1. Enter the new password in the first empty line, and then enter the password again in the second empty line. Two entries must be exactly the same.
- 2. Click **OK** to save the new password.

Administrator Password Settings	×
New Password:	-
Confirm Password:	1
Notice: Leave Password Blank to Enable Full	
Administrator Privileges to All Users.	
<u>O</u> K <u>C</u> ancel	

Note: If OK is not available, which means your access authority of the current Agent is "Read Only" and the settings can't be changed. To log in as an administrator, refer to *on page 14* for detailed information.

Realizing sending event message via email

Configuring Email Settings

SMTP Server Setting

To configure email settings:

Select **EMail Setting** from the **Tools** menu. The EMail Settings prompt pops up.

- SMTP Server: The SMTP server address,
- SMTP User: The account for logging in the server.
- If SMTP mail server need password authentication, users need to enter a valid password.

Elail Settings	
SMTP Server Setting	
SMTP Server	smtp@belkin.com
SMTP User	test@belkin.com
Password Auth <u>e</u> nticati	on needed
Password	Restated a
Receiver EMail Address	
test1@belkin.com	
	Test
	Add
	Remove
Send message	
VPS Battery Low	<u> </u>
UPS Battery Time Exhaus	st
UPS hardware breakdow	n
UPS Output Overload	
Communication Lost	
AC Fail	
On Bypass	
Bypass without output	
Self-test Fail	
Phase sequence input er	ror
<u>0</u> K	Cancel
	ad

Receiver Email Address

Click **Add** in the Receiver Email address section, an **Add Receiver Email Address** prompt pops up. Enter the receiver's mail address and click **OK** to save it.

🛙 ail Settings 🛛 🛛 🔀	
SMTP Server Setting SMTP Server smtp.belkin.com SMTP User test@belkin.com Password Authentication needed Password #***** Receiver EMail Address Test Add Remove	 To Test if the mail address is valid onot, click Test. To delete a mail address, select a sereceiver email address from the list and click Remove.
Send message UPS Battery Low UPS Battery Time Exhaust UPS hardware breakdown UPS Output Overload	
☐ Communication Lost ☐ AC Fail ☐ On Bypass	Add Receiver E∎ail Address
Bypass without output Self-test Fail Phase sequence input error	EMail Address test1@belkin.com
<u>O</u> K <u>Cancel</u>	<u>O</u> K <u>C</u> ancel

Send Message

- 1. Select one or more listed event from the send message section.
- 2. Select a receiver from the Receiver Email Address list.
- 3. Click OK at the bottom of the window to save the setting.

When the selected events occur, the message will be sent via the assigned mail address.

Elail Settings			
SMTP Server Setting			
SMTP Server	smtp.belkin.com		
SMTP User	test@belkin.com		
Password Auth <u>e</u> nticati	on needed		
Password	*****		
-Receiver EMail Address			
test1@belkin.com			
	<u>T</u> est		
	Add		
	Remove		
Send message			
UPS Battery Low			
UPS Battery Time Exhaus	st 👘 🗍		
UPS hardware breakdow	n		
UPS Output Overload			
Communication Lost			
AC Fail			
🔽 On Bypass			
F Bypass without output			
🔽 Self-test Fail			
🔽 Phase sequence input error			
<u>0</u> K	Cancel		

Realizing sending event message via SMS

Events supported

Only the following five events occur and the assigned messages will be sent:

- UPS Battery Low
- UPS Fail
- UPS Output Overload
- AC Fail
- AC Restore

Configuring Email Settings

To open this option, select SMS Setting from the Tools menu. The SMS Setting prompts pops up.

SIS Setting	SIS Setting
Sender	Sender
Com Port COM2	Com Port COM2
Baud Rate 9600 💌	Baud Rate 9600
Receiver	Receiver
	13800138000
Add	Add
<u>R</u> emove	<u>R</u> emove
Test	Test
Send message	Send message
UPS Battery Low	UPS Battery Low
UPS hardware breakdown	UPS hardware breakdown
AC Fail	AC Fail
<u> </u>	<u>OK</u> <u>Cancel</u>

Sender

SMS is sent through GSM modem or mobile phone which connects to your computer. Users should select COM port which is being used by GSM Modem or mobile phone and then set Baud Rate of this COM port.

Receiver

The mobile phone number will receive the SMS. It can be one or more.

If the events that selected occur, Belkin APM Software will send the short message to all phone numbers listed in the **Receiver** list.

Send message

- 1. Select one or more listed event from the **Send Message** section.
- 2. Click **OK** at the bottom of the window to save the setting.

Another method to select Event Code

Please refer to

SMS Setting on page 27 for detailed information.

Realizing sending event messages by pager

Events supported

Only the following four events are occurred and the assigned events will be sent:

- UPS AC fails
- UPS low battery
- UPS hardware failure
- UPS output overload

Configuring the Pager Setting

To open this option, select Pager in Pager setting from the Tools menu. The Pager Setting prompt pops up.

Pager Setting		X
Modem Port	COM2	T
Access Number		Wait 0 sec
Pager Number	Í	Wait 0 sec
🗖 Dialing	to exterior line	Wait 🗾 🚽 sec
🖵 Dialing	# 🔻 after message	_
Sond	Event Code	Event Name
	101	UPS AC nower fail
	102	UPS battery low
-	103	UPS hardware breakdown
	104	UPS output overload
	<u>o</u> k <u>T</u> e	st Cancel

Read the followed table for detailed information on pager setting.

Item	Description		
Modem Port	Selects a COM port which is being used by the modem.		
Access Number	The station number that the pager joined. The waiting time is the time delayed between dialing paging station number and pager number.		
	For some pager service, a delay is needed between dialing access number and message code. The delay time will be different from paging stations.		
Pager Number	The number of the pager that accepts the communication. The waiting time is the time delayed between dialing pager number and message code.		
	For some pager service, a delay is needed between dialing pager number and message code. The delay time will be different from paging stations.		
Dialing number to exterior line	For extension line, it is always necessary to dial a specified number and delay a specified time to access Exterior Line.		

Item	Description
Dialing number after message	For some pager service, need to dial a specified number to end message code.
Event Code	The event code is dialed as the message code and will be displayed on pager.

When all options are set, click OK at the bottom of the window to save the changes.

Another method to select Event Code

Please refer to

Pager Setting on page 28 for detailed information.

Realizing telemonitoring UPS in the LAN (same network)

Precondition

To realize telemonitoring any UPS in the LAN within the same network, the computers require to setup Belkin APM Software, and the TCP/IP protocol in their communication protocol.

Configuration

Make sure the network works smoothly. Run the Command Prompt and test with network command PING.

Command Prompt	_ 🗆 ×
Microsoft Windows 2000 [Version 5.00.2195] (C) Copyright 1985-2000 Microsoft Corp.	^
C:∨ping 192.168.1.221	
Pinging 192.168.1.221 with 32 bytes of data:	
Reply from 192.168.1.221: bytes=32 time<10ms TIL=128	
Reply from 192.168.1.221: bytes=32 time<10ms 11L=128 Reply from 192.168.1.221: bytes=32 time<10ms TTL=128	
Reply from 192.168.1.221: bytes=32 time<10ms TTL=128	
<pre>Ping statistics for 192.168.1.221: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),</pre>	
Approximate round trip times in milli-seconds: Minimum = Oms, Maximum = Oms, Average = Oms	
C:>>	<u> </u>
	· //.

Remote Control Permission Switch

This is a selectable menu item. To open this option, select **Accept Remote Control** from the **Monitor** menu.

🧏 Belkin Automatic	Power Management Soft	vare ¥2.2
System Logs <u>U</u> PS <u>T</u> ools	Monitor Preference Language	Help
18 ≜ 🖬 🖩 ?</td <td>Monitor Remote UPS</td> <td></td>	Monitor Remote UPS	
💡 🕆 Root	🗹 Accept Rem <u>o</u> te Control	
🦞 🔂 LAN	santak-3j6ydpo0	1
🍳 🖳 santak-3j6yd;	stkr-yinf	0

Monitoring UPS systems

You can select the UPS from the tree menu on the left side of the window.



If the Remote Accept Control Permission Switch is off, you can only monitor but not control.

The submenu **Act as Administrator** of the menu **System** is gray and cannot be selected. Unless the user logs in as an administrator, or the operation can't be carried out.



If the Remote Control Permission Switch is on, you can monitor and control this UPS. The submenu Act as Administrator in the System menu is black and can be selected. Under this circumstance, the user is able to log in as an administrator and carry out all operations.



Realizing UPS remote control in the WAN (different network)

Precondition

To remote control UPS in the LAN in different network, the computers require to setup Belkin APM Software, and the TCP/IP protocol in their communication protocol.

Configuration

Remote Control Permission Switch

This is a selectable menu item. To open this option, select **Accept Remote Control** from the **Monitor** menu. The IP address is 192.168.2.228.



Monitoring UPS systems

To open this option, select **Monitor Remote UPS** from the **Monitor** menu.

Enter a name of a computer of an IP address in the Monitor Remote UPS prompt. Click OK to save the setting.

Monitor Remote UPS		
Enter IP address of	agent	
IP Address	192.168.2.228	
<u>0</u> K	<u>C</u> ancel	

Now the assigned UPS can be found in the WAN.



If the Remote Control Permission switch is off, the user can only monitor but not control. The submenus are in gray and can't be selected.



If the Remote Control Permission Switch is on, the user not only can monitor also can control the UPS settings. The submenus are in black and can be selected.



Appendix A Glossary Explanation

Agent	Agent is a background application of the Windows/Unix/Linux operating system
Battery Backup Time	Indicate the time that battery supplies power when utility power fails. After this time is used up, the Agent begins to shutdown the opened application.
Over load	UPS load is more than $100\% \sim 110\%$ rated load.
Remote Shutdown by Agent	Local Agent will shutdown in shutdown delay time after the specified Agent Shutdown.
UPS battery backup time exhausted	Indicates when UPS AC fails, battery supply time has exceeded the "battery backup time" which has been set ("Battery backup time" can be set in the "Shutdown parameter" dialog of Belkin APM Software).
UPS battery low	When Utility Power fails and battery supplies power, if the battery voltage is lower than a certain value (refer to UPS Specification), UPS will send a warning tone at intervals of once 1 second for battery low.
UPS output overload	UPS load is more than 100% Rated load.
UPS self test	After UPS' supply mode is switched from utility power mode to battery mode and work on for a period of time, return to utility power mode again. The purpose of self test: First is to check if it can supply normally in battery mode; second is to make the battery discharge once termly (as every month), which is helpful for the battery maintenance and can prolong the battery's service life.
Self test failure	Indicates that it is found out that it is not able to supply power normally in battery mode via self test.
Shutdown alarm interval	Indicate after the shutdown warning begins (include time shutdown warning and AC fail shutdown warning), interval of each warning.
Shutdown file max execution Time	The time for closing the running applications before shutdown system.
Start Warning before Scheduled Shutdown	If user has set time shutdown, Belkin APM Software will begin warning at this time earlier than shutdown.
Supply power in Bypass mode	For the reason of UPS not on or the hardware fault, the input will not pass the inverter of UPS, but output directly. At this moment, if AC fails, UPS will not startup backup battery to supply, so the output will also out of electricity.
System shutdown need time	The time for system shutdown, is also the time from system begin shutdown to turn off UPS outlet

Appendix B Belkin APM Software Event Table

Serial Number	Event Description	Type of Message	Remarks
1	UPS Battery Low	Serious	Can be set as no shutdown system through "Shutdown parameter"
2	UPS Battery Time Exhaust	Serious	Can set battery backup time through "Shutdown parameter"
3	UPS Fail	Serious	
4	UPS Output Overload	Serious	Output load is more than 110%
6	Communication Lost	Warning	The connection of communication cable is not good, or communication port fault.
7	AC Fail	Warning	
8	On Bypass	Warning	UPS will be switched to bypass mode for the reason of overload, hardware fault and so on. Online UPS is also in bypass mode when it is off, at this time UPS has no protection function.
9	Bypass without output		
10	Self-test Fail	Warning	
11	Phase sequence input error	Warning	Three-phase UPS support
12	Battery connection error	Warning	Three-phase UPS support
13	Load unbalance	Warning	Three-phase UPS support
14	overload	Warning	
15	Internal warning	Warning	Three-phase UPS support
16	Maintain cover is open	Warning	
17	AC Restore	Information	•
18	Communication Established	Information	
19	Agent Start	Information	•
20	Agent Stop	Information	•
21	System be shutdown	Information	
22	System be Shutdown by Other Agent	Information	Set the Agent need to be in response to through "Shutdown parameter".
23	Special date Close UPS	Information	

Serial Number	Event Description	Type of Message	Remarks
24	Weekly Close UPS	Information	•
25	Self-test Start	Information	Self-test begins immediately.
26	Self-test cancel	Information	
27	Self-test End	Information	
28	Special date Self- test Start	Information	
29	Special date Self- test Cancel	Information	
30	Special date Self- test End	Information	
31	Monthly Self-test Start	Information	
32	Monthly Self-test Cancel	Information	
33	Monthly Self-test End	Information	