PowerNETGuard

User and Installation Manual

0MNSWK007ENUE

SUPPORT AND LIABILITY STATEMENT

The manufacturer does not accept liability for loss of data, productivity, equipment or any other associated damage or cost (direct or indirect) due to the failure of PowerNETGuard or related equipment.

A tremendous amount of effort has gone into making PowerNETGuard as easy to use as possible. However, should the user find that additional information or help is necessary, he/she should contact the local distributor/dealer who has access to the support centre.

It should be noted that technical support is not intended for general questions regarding the operating system.

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SUMMARY

WHAT IS SNMP?	4
HARDWARE REQUIREMENTS	
INSTALLATION	
Uninstalling	5
Function	5
WHAT'S NEW SINCE PREVIOUS VERSION	5
SERVICES	6
WEB CONNECTIVITY	6
Secure SNMP	
MULTIUSER	
EVENT LOG	
Advanced configuration	
USER INTERFACE	14
Toolbar structure	14
New SNMP OBJECT	
IDENTIFICATION DATA MODIFICATION	
NETWORK VISUALIZATION	16
TREE STRUCTURE DISPLAY	
INDEX DISPLAY	
SCHEDULED MAINTENANCE DATABASE	
DESKTOP	-
STANDARD DATA (UPS VERSION)	
STANDARD DATA (IRMS VERSION)	
DIAGRAM DATA (ONLY UPS)	
Log	
GRAPHICS	
CONFIGURATION	26
USER CONFIGURATION	
GENERAL CONFIGURATION	
Secure SNMP Configuration	
Live status Configuration	
ALARMS CONFIGURATION	
EMAIL CONFIGURATION	
SMS CONFIGURATION	
OTHER CONFIGURATION	

INTRODUCTION

Thank you for choosing PowerNETGuard!

PowerNETGuard is an UPS remote management program which utilises the SNMP protocol. In other words, it is an optimised SNMP manager for RFC 1628, the world standard in the management of UPSs. For this reason PowerNETGuard can be used with any agent that supports this standard. Versions for Windows (2000, XP, 2003, Vista, 2008, 7); as well as for Linux x86, Solaris 8, 9, 10 (x86 and SPARC) are available.

WHAT IS SNMP?

SNMP (Simple Network Management Protocol) is a communications protocol, a tool that allows the client (manager) to effect requests to a server (agent). This protocol is an international standard and so any SNMP manager can communicate with any SNMP agent.

To exchange information, the manager and agent utilise an addressing technique called MIB (Management Information Base). MIB defines which variables can be requested and the respective access rights. MIB is equipped with a tree structure (like the folders on a hard disk), through which manager and agent can use several MIB at the same time, as there is no overlap.

Each MIB is oriented to a particular sector; in particular RFC-1628, also called UPS-MIB, holds the data for UPS remote management.

Furthermore, the agent can submit data without a prior request to inform the manager about particularly important events. These messages are called traps.

For more information about SNMP visit this site: <u>http://www.snmp.com</u>.

HARDWARE REQUIREMENTS

The following are the minimum requirements to obtain an acceptable operating speed.

Intel systems require a PC with a Pentium III or an equivalent processor with 1GHz and 256 Mb RAM.

SPARC systems require a workstation with an UltraSPARC-IIe processor of 500MHz and 256 Mb RAM (for example, SunBlade 100).

Mac systems require a computer with a G3 processor 500MHz and 256 Mb RAM. For SGI systems a MIPS R4000 processor is required and for Compag system a Alpha 21064 processor is required.

INSTALLATION

On Windows systems, open the "PowerNETGuard.exe" file in the "Windows" folder and follow the instructions.

On Linux and Solaris, open the "install.bin" file in the respective folders and follow the instructions.

On Mac systems, open the "PowerNETGuard.dmg" disk image in the "MacOSX" folder and then copy the application to the "Applications" folder.

On SGI Irix systems, open the "install.bin" file and follow the instructions.

On Tru64 systems, open the "install.bin" file and follow the instructions.

If the installation program shows that a Java Virtual Machine is not present (version 6 or higher is required), proceed with the installation as follows:

if you own the CD-ROM run the installation program contained in the "JavaVM" folder; otherwise download "Java software" from the website <u>http://www.java.com</u>.

UNINSTALLING

For Windows systems, run the "Install applications" program from the Control Panel, select PowerNETGuard and click on "Remove".

For Unix systems run the "Uninstall" program in the "PowerNETGuard/Uninstaller Data" directory.

For Mac systems drag the "PowerNETGuard" application contained in the "Application" folder to the trash.

FUNCTION

PowerNETGuard provides a visual display of UPSs managed through the medium of a folder structure. At the root there is the "Network" folder and each folder can contain other folders, UPSs and IRMSs.

The UPSs/IRMSs contained in the "UPS" folder, or in a sub-folder make up the cluster of objects that can be managed through the program and the folders serve to organise these objects according to various criteria. One example of a possible criterion is geographic. For instance, there could be a folder called "Europe" that contains "Italy" and "Germany" folders, which in turn contain UPSs.

Once the structure that represents the remotely managed objects has been created, it can be saved on the disk drive, or another structure that has been created beforehand can be loaded.

The UPS is an object that can be queried to supply operating status data. It can be selected to view data and in order to avoid unnecessary queries, the information retrieved is saved in the memory until the program is closed. This is valid also for IRMS.

When a UPS or a IRMS is selected, updated real-time status information can be obtained, data that is not yet updated can also be retained. In the first case the data viewed is more reliable, however it causes greater network traffic.

Even if it has not been selected, an object will show its status anyway through the colour of its icon. PowerNETGuard detects errors even when an UPS/IRMS is not selected thanks to the integrated trap management and to auto-walk.

PowerNETGuard is multi-user, where each user is identified by a password and personalised rights.

PowerNETGuard is able to react to UPSs/IRMSs status changes by giving a timely communication to the users by means of email and SMS. Also WEB connectivity is available for UPS monitoring via web browser.

WHAT'S NEW SINCE PREVIOUS VERSION

- 5.0 Improved user interface
- 4.5 Support for home folders, description for devices
- 4.1 Sensors support, new web server
- 4.0 Renewed user interface, extended MAPI, more powerful scripts and new license scheme.
- 3.5 New auto-walk logic, applet, email with authentication
- 3.0 Secure SNMP support, controls for WakeOnLan, and scheduled maintenance
- 2.4 Multilanguage, controls for remote shutdown and reboot
- 2.1 WEB connectivity for state monitoring
- 2.0 IRMS support, event log.
- 1.2 WAP connectivity enables a "everywhere and 24 hours" alarm monitoring.
- 1.1 PowerNETGuard is able to react to UPSs status changes by giving a timely communication to the users by means of email and SMS.

SERVICES

Besides directly monitoring the devices, PowerNETGuard supports a wide range of tools and services that improves the devices management.

WEB CONNECTIVITY

In order to enable or disable the WEB connectivity select the panel "Preferences…→WEB" and then restart PowerNETGuard. This function obviously cannot coexist with other web servers running on the same port. From a client computer it is possible to connect with an internet browser by inserting as web address the host name or the IP address of the computer where PowerNETGuard is running.

- There are three types of web servers, each with different advantages:
 - Web server "simple": it offers a synthetic view of the status of all the ups with the ability to connect to the web page of the device.



• Web server "applet": offer a graphical interface similar to the application

• Web server "classic":



Insert login and password of a PowerNETGuard user;

WARNING: if there is a completely different page instead of this then on the computer is running another web server; it that case please change PowerNETGuard's WEB port and when connecting from a client add the specified port number to the address (for example: http://10.1.10.112:4000).



After that the access has been authenticated this page is shown. On the left side there is a tree structure that replies that of the PowerNETGuard; by selecting a folder it is possible to view the objects and the subfolders contained, and by selecting an object it is possible to view the data monitored by PowerNETGuard.

Ele Edi Yev Go Bohmerks Tools Help	PowerNETGuard monitor	ring - Mozilla Firefox				
Modile Firebich Help, & Yavasuncom - The S Codeguide PowerNETGuard logn IRMS1 Geographical De power Roverè Serveri UPS Status UPS CN Exfresh Bypass On UTPUT LOAD UTPUT LOAD UTPUT BYPASS AUTONOMY TIME 235V 220V Alarm UD mm Freq. 50.0 Hz Freq. 50.0 Hz	Eile Edit Yiew <u>G</u> o Bookm	arks <u>T</u> ools <u>H</u> elp				Q
IRMS1 UPS Identification INPUT VOLTAGE Import Roverè 20 kVA UPS ON 12 220 V Ime Present 3 220 V 3 220 V 13 220 V UPS Status On Battery 1% 00TPUT LOAD Bettery Low Battery Low 1% BATTERY Overload 0verload 3240 V 220 V Overload 3240 V 220 V 220 V Autonomy Time 235 V 220 V Alarm 100 min Freq 50.0 Hz Freq 50.0 Hz	-) -		http://10.1.1	0.112/login?LOGIN=Admin&F	PASSWORD=	✓ G.
B Geographical B Power Roverè Server UPS Status 04-Mar-2004 11:08:00 Refresh Bypass On Overload 04-Mar-2004 11:08:00 Refresh Dypass On Overload 04-Mar-2004 11:08:00 Refresh Dypass On Overload 04-Mar-2004 11:08:00 Refresh Dypass On Overload 04-Mar-2004 11:08:00 Refresh Dypass On Doverload 04-Mar-2004 11:08:00 Refresh Doverload 04-Mar-2004 11:08:00 Refresh DOVER D DOVER D DOVER D DOVER D DOVER D DOVER D D D D D D D D D D D D D D D D D D D	🗋 Mozilla Firebird Help 🖨 java.s	:un.com - The S 🛅 Codeguide [PowerNETGuard login			
	 IRMS1 Geographical Power Roverè 	UPS Identification MDM20-2 20 kVA 01022 UPS Status 04-Mar-2004 11:06:00	UPS ON Line Prasent On Battery Battery Low Bypass On Overload Overload Overload Peplace Battery	L2 220V L3 220V 1% 100% 3240V	OUTPL BAT OUTPUT 235 √	TERY BYPASS 220 V
Durie	Done					

The data is shown only if before PowerNETGuard connected to the device. In particular, on "UPS Status" it is visible the time of the last refresh and by clicking on "Refresh" it is possible to request a refresh of the data.



If the data isn't available this page is shown, and from here it is possible to request a refresh of the data.



When the user does not have the right or when a non monitorable object is selected this page is shown.



The selected object might be unavailable due to removal or renaming and in that case this page is shown. It is also possible that the address of the object contains character non contained in standard ASCII and that the encoding of the browser is different from that used by PowerNETGuard: in that case it is necessary to modify the character encoding from the panel "Preferences... \rightarrow WEB" (for example, Microsoft Internet Explorer uses "UTF-8" encoding and Mozilla Firefox uses "ISO-8859-1").

SECURE SNMP

Secure SNMP is an innovation introduced for improving the security on the IRMS management; it features in particular authentication and authorization with the possibility to configure the granted privileges.

On the IRMS configuration it is possible to set 3 passwords and to bind to each one different privileges: when a user authenticates, these privileges will be granted. In particular, for each output socket it is possible to define the privilege to turn it on or off, to perform the reset (shutdown and restart), and to perform the source power switch (from line A to line B and vice versa).

		irms V.	3.0 05/2004 🗆 /	Network card	v. 01.01		
						Inpu	t lines OK
Adm terminal	Mail server	WEB server	FTP server	Gateway	Laboratory	Office 1	Office 2
Output load - 0.0 A 0 %	0.0 A	0.0 A	0.0 A	0.0 A 0 %	0.0 A	0.0 A 0 %	0.0 A 0 %
Input voltage		Line A	226 V	Line B	227 V		
Command —	9	A	в	OFF			

At first PowerNETGuard locks all actions (padlock closed), but after clicking on a socket the password will be requested.



After inserting the password PowerNETGuard allows to send commands. The commands are sent together with the password inserted by the user: if the password is recognized by the IRMS and is granted the privilege to perform the operation then the request is fulfilled; otherwise PowerNETGuard shows an alert.



As a further level of security the functions unlocked becomes locked again after 1 minute. This amount can be configured on the preferences.

WARNING: Secure SNMP is not available for obsolete IRMS models.

However, PowerNETGuard is able to recognize these models and unlocks the supported functions without requiring a password.

MULTIUSER

Every PowerNETGuard user has a login and password that are required for accessing the software functions. Every user has a different set of privileges which are defined by the administrator. In particular:

- Control UPSs: the right to perform maintenance operations like UPS shutdown and reboot;
- Monitor UPSs: the right to set up a connection to a device and to view data;
- ✓ Define UPSs and locations: the right to add new UPSs and new folders;
- Show logs and graphs: the right to view past data;
- ✓ Clear log database: the right to overwrite preceding logs;
- Solution: User administration: the right to create new users and modify the existing ones;
- Administrator: right to close the program down.

The default user is whom the automatic login is performed, when active. Furthermore, each user has a home folder of the navigation tree. Any node above the home folder will be hidden to the user.



By selecting "Event log" on the File menu it is possible to view the debug events that were registered by PowerNETGuard. This displays information about communication, such as the agent selected, timeout, the presence of request errors and the traps received. It is possible to export these events to a text file.

ADVANCED CONFIGURATION

🛓 Advanced control 🛛 🛛 🔀
Shutdown
Reboot
Wake On Lan

It is also possible to perform remote maintenance operation on the UPS, like shutdown and reboot, by pressing the "Advanced configuration" button. PowerNETGuard will ask the seconds of delay for shutdown or reboot according to the requested operation. It is also possible to send WakeOnLan packets. To perform this function on a device it is required to know its MAC address and it is necessary that that device is compatible and correctly configured for using this function.

USER INTERFACE

TOOLBAR STRUCTURE



There is also an address bar that displays the path of the selected folder or UPS. A folder or a device are selected by entering an address and pressing Enter.

New SNMP OBJECT

🕌 Create a new SNMP Obj	ect 📃 🗖 🔀
Name (only for the tree)	Server UPS
Description	Third floor first door rack 8
Object type	UPS 🖌
Connection	
Host name or IP Address	192.168.2.123
Public community	public
Private community	private
SNMP Port	
⊙ Use default SNMP Port	
O Use custom port:	8,085 🜲
Create	Cancel

When a new object is inserted to be monitored, this screen will appear, so that it can be given a name (it can be changed by clicking on the name in the tree structure display), add a multiline description, an object type, a IP address (alternatively the name that is displayed on the network can be used), the SNMP communities and the SNMP communication port (the standard is 161 but this can be changed).

IDENTIFICATION DATA MODIFICATION

👙 Control settings	
Ident data UPS Name: Attached devices:	PWP1000 Server
ок	Cancel

By pressing the "Configuration" button it is possible to set the UPS name and the attached devices. These values are used only for giving a SNMP identification and in particular the UPS name must not be confused with the identification code of the UPS.

NETWORK VISUALIZATION

TREE STRUCTURE DISPLAY



The tree structure displays the items managed. By selecting an item the communication is established; it can also be renamed, or a menu can be displayed (right-hand mouse button for Windows) for modify its data or show the maintenance database or to connect to the device by means of Telnet, SSH o http. UPSs and the IRMSs are displayed with an icon which shows the symbol of their status:



If a closed folder contains one or more devices in alarm status, the folder will display the alarm symbol.

INDEX DISPLAY

Ups 📀 🗞				
Name	Last update	IP Address, Port	Communication bar	Status
Netman plus	n/a	10.1.1.1, 161		•
Net 2	n/a	10.1.10.128, 161		
Net4	Na	10.1.10.165, 161	0 %	

This displays a list of the objects in the current folder and sub-folders. The name, time of last query, address and agent port as well as the current status will be displayed. By clicking on an object this will be selected and polled automatically if necessary.

UPS X V	Is possible to easily indentify the UPS by inserting its name on the research field.
	If the status is white, there is no information available and a query must be started.
100 %	f the status is bright green marked «100%» it has been polled and the data is available and the information displayed is updated in real time.
100 %	f the status is grey and marked «100%» it has been polled and the data is available, but it is not a current selection.
UP5 Server 66%	During the query, the bar grows; it is possible to stop the interrogation by pressing Stop.

SCHEDULED MAINTENANCE DATABASE

Device	Installation time	Frequency (months)	Last intervention time
Vet4	Oct 1, 2009	6	Oct 1, 2009
let 2	Oct 1, 2009	6	Oct 1, 2009
letman plus	Oct 1, 2009	6	Oct 1, 2009

Shows the scheduled maintenance database for the devices. For each device it is possible to insert a custom scheduled maintenance frequency; and at the fixed date the configured actions are performed (please see section "Alarm configuration").

DESKTOP



This displays the UPSs/IRMSs contained in the current folder following the desktop metaphor. UPSs/IRMSs can be moved by clicking and dragging while holding the button down. A menu can be displayed on the (right-hand mouse button for Windows) UPSs/IRMSs or on the background.

In particular, the object can be selected, queried or eliminated, while on the desktop a new folder or a new object can be created, the background can be changed, or the user can browse among folders that stem from one folder. The folders open with double click.

For instance, the "Europe" folder can have a "France" sub-folder. In this case the "Europe" background could be a map of Europe, while the "France" background could be a map of France. So by double clicking on France on the map of Europe the "France" folder will open.

STANDARD DATA (UPS VERSION)



This displays the machine status with LED lamps and graphic bars.

STANDARD DATA (IRMS VERSION)

		irms V.3	3.0 05/2004⊡/№	Network card v	v. 01.01		
						Input	t lines OK
Adm terminal	Mail server	WEB server	FTP server	Gateway	Laboratory	Office 1	Office 2
Output load -							
0.0 A	0.0 A	0.0 A	0.0 A	0.0 A	0.0 A	0.0 A	0.0 A
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %
Input voltage		Line A	224 V	Line B	225 V		
Command —	_	A	в	OFF	RST		

If the monitored object is an IRMS this display will be shown. Each socket shows its current state by changing its color: it may be off (gray), active and connected to the A input line (green), or active and connected to the B input line (blue). The display shows the status of the two input lines: *Input lines OK* = line good, *Blackout A/B* = line not good, and *Phase shift* = A and B lines have their phases shifted. It is also showed the load and the input voltage. The state of the socket can be changed with the button on the bottom, after the specified socket is selected. In particular, A and B buttons changes power source line, OFF button turn the socket off, and the RST button turn the socket off for a set time (configured on the IRMS) and then turn it back on.

DIAGRAM DATA (ONLY UPS)

		-Input-						System	
	UPS On				e (V)	Frequency			
		<i>i</i>	Line 1	225			13.0		
2	On Line		Line 2	227		49.9	13.0		
00			Line 3	227			13.0	30	Temperature (°C)
8	On Battery								
	Battery Low	Bypass						_	
1	Dattery LOW			Voltage	e (V)	Frequency			
		R	Line 1	230					
2	Bypass On		Line 2	230		50.0			
~			Line 3	232					
6	Overload								
	Overtemperature	Output							
						oltage (V)	Frequency (Hz)	Load (%)	Current (A)
2	Replace Battery		Line 1		30			17	14
×	Replace baccory		Line 2		31		49.9	9	6
•	Alarm		Line 3	2	30			16	17
utonon	ny	Battery							
0			Ve	oltage (V)		Current	(A)		
U.			322			22.0			
	100%								
	and alarms								
tatus a	ing alarms								

This displays the detailed status of the UPS.

Log

-	Gravity	Time	Device	Event	
9		Friday, September 4, 2009 11:55:05 AM		Eventilog started	
6		Friday, September 4, 2009 11:33:26 AM		Event log stopped	
G		Friday, September 4, 2009 11:33:40 AM		Event log started	
00		Friday, September 4, 2009 11:33:54 AM		Event log stopped	
G		Friday, September 4, 2009 11:33:57 AM		Event log started	
ĕ		Friday, September 4, 2009 11:34:02 AM		Event log stopped	
6		Friday, September 4, 2009 11:57:29 AM		Event log started	
6		Friday, September 4, 2009 11:57:57 AM		Event log stopped	
6		Thursday, October 1, 2009 3:11:13 PM		Event log started	
6		Thursday, October 1, 2009 3:11:40 PM		Event log stopped	
6		Thursday, October 1, 2009 3:12:03 PM		Event log stopped	
	Critical	Thursday, October 1, 2009 3:12:23 PM	Net4	Ups system off	
0		Thursday, October 1, 2009 3:12:29 PM		Event log stopped	
G	Critical	Thursday, October 1, 2009 3:13:23 PM	Netman plus	Device timeout	
6		Thursday, October 1, 2009 3:21:02 PM		Event log stopped	
6		Thursday, October 1, 2009 3:21:28 PM		Event log stopped	
0		Thursday, October 1, 2009 3:22:44 PM		Event log stopped	
G		Thursday, October 1, 2009 3:22:46 PM		Event log stopped	
6		Thursday, October 1, 2009 3:22:48 PM		Event log stopped	
6		Thursday, October 1, 2009 3:23:00 PM		Event log stopped	
6		Thursday, October 1, 2009 3:23:03 PM		Event log stopped	
0		Thursday, October 1, 2009 3:23:06 PM		Event log stopped	
0		Thursday, October 1, 2009 3:23:17 PM		Event log stopped	
G		Thursday, October 1, 2009 3:23:19 PM		Event log stopped	
Ô	Critical	Thursday, October 1, 2009 3:23:24 PM	Netman plus	Device timeout	
6		Thursday, October 1, 2009 3:23:35 PM		Event log stopped	
0		Thursday, October 1, 2009 3:23:36 PM		Event log stopped	
ē		Thursday, October 1, 2009 3:23:40 PM		Event log stopped	
G	Critical	Thursday, October 1, 2009 3:23:43 PM	New object	Ups system off	
ē		Thursday, October 1, 2009 3:23:55 PM		Event log stopped	
000		Thursday, October 1, 2009 3:24:10 PM		Event log stopped	
ē		Thursday, October 1, 2009 3:24:38 PM		Event log stopped	

This shows the events of PowerNETGuard. In order to have the events correctly registered it is necessary to configure this action.

GRAPHICS



From this display the status history of the device being monitored can be analysed. During the "updated" visual display mode, PowerNETGuard gathers data on device status, especially the input/output/bypass/battery voltage, the load, and the input/output/bypass frequency. By pressing the buttons on the left the graphics that display the data gathered can be viewed. The number of data gathered is limited and old data is removed. This limit can be configured. These graphics have a gold background and are designed to display the recent history of the device. By making the menu appear (right-hand mouse button for Windows) one can zoom, save, or print the image.

260	Input Voltage	
240		
0.000		
5220		
200		

To monitor a long-term time interval the data can be saved on the hard disk so that it can be uploaded again later on. Recording can be started by pressing "Record" and stopped by pressing "Stop". It is worth noting that every time the record function starts, the data stored in the memory previously will be overwritten. Clicking on "Play" will load and display data. These graphics have a silver background.



CONFIGURATION

USER CONFIGURATION

P Preferences		×
General Language	Users	
Users Live status	Default user User name Description	
Secure SNMP	Admin default	
WEB	IUser	
Alarms		
Email SMS		
Script	Name Admin Home folder Network:	
Sound	Description default	
Log	Password •••••• Retype password	
	Password Retype password	
	Rights Image: Monitor UPSs Image: Clear log database	
	Control UPSs User administration	
	Define UPSs and locations Administrator	
	Show logs and graphs	
	OK Cancel	
	Add new Edit Delete	
	OK Cancel	

Here users and their rights can be configured by entering names, a brief description, and password and selecting the rights the user can be assigned: The user flagged as "Default user" is used during server mode. The home folder will become the tree root folder for the selected user.

NOTE: if changes are made to user rights while in use, the changes will not become effective until after the user has logged out.

GENERAL CONFIGURATION

P Preferenze	\mathbf{X}
Ceneral Language Users Live status Secure SNMP WEB Alarms Show popup blocking dialog for showing alarms Smith Show popup non-blocking dialog for showing alarms Sound Log V Send daily email report at 16 38	
OK Cancella	

This panel allows to configure general parameters.

With the option "Server enabled" the logon is performed automatically with the default user; i.e. it is no longer necessary to insert the password at PowerNETGuard start. The default user owns the rights defined on the user configuration.

With the "Enable graphics effects for showing alarms" option enabled, the alarms are displayed by means of a prominent screen. With the option "show popup", a popup notification window is showed (either blocking or not blocking the graphical interface).

With the option "Show message for end alarms" also the end alarms will be showed.

The "Send daily email report" is used to send an e-mail daily at the scheduled time, to all addresses listed in Section Email Critical, which provides a status report of monitored devices and a list of devices in alarm.

SECURE SNMP CONFIGURATION

Preferences		×
Language Service Secure SNMP WAP WEB Auto walk LookAndFeel Iconset Alarms Email SMS Script Log	Secure SNMP Authorization duration 60	
	OK Cancel	

This panel allows to configure Secure SNMP. When disabled, PowerNETGuard will not lock the SNMP command but will use the predefined password for the selected object (SET Community). However, both the authentication and the authorization are performed on the remote host, therefore if Secure SNMP is enabled on remote but PowerNETGuard has this option disabled then the predefined password will not grant the required privileges.

LIVE STATUS CONFIGURATION

P Preferences		×
General Language Users Live status Secure SNMP WEB Alarms Email SMS Script Sound Log	Live status Disable live status Live status every minutes Daily live status Seconds delay between devices	
	OK Cancel]

This panel allows to configure Live status. The devices are monitored automatically on the time interval defined and with the defined delay between the devices. It is also possible to disable this function.

ALARMS CONFIGURATION

.anguage	a Alarms		
Service		Quantita	
NAP	Alarm	Critical Severity	-
MEB	Battery bad		-
Auto walk	End event Battery bad	Critical	
ookAndFeel	On Battery	Critical	
	End event On Battery	Critical	
conset	Low Battery	Critical	
Alarms	End event Low Battery	Critical	33
mail	Depleted Battery	Critical	
SMS	End event Depleted Battery	Critical	
Script	Temp bad	Critical	
.og	End event Temp bad	Critical	
.09	Input bad	Critical	
	End event Input bad	Critical	- 22
	Output bad	Critical	
	End event Output bad	Critical	
	Output overload	Critical	
	End event Output overload	Critical	
	On Bypass	Critical	
	End event On Bypass	Critical	
	Bypass bad	Critical	
	End event Bypass bad	Critical	
	Output off as requested	Critical	
	End event Output off as requested	Critical	
	Ups off as requested	Critical	
	End event Ups off as requested	Critical	
	Charger failed	Critical	•

On this screen the alarm priority can be set. Then, for each priority level it will be possible to define the actions to be performed.

EMAIL CONFIGURATION

P Preferences		
General	Email	
Language	Alarm level	Critical
Users Auto walk	Alamiever	Citucai
Secure SNMP	Email	
WEB	administrator@mycompany.com	
Alarms		
Email		
SMS		
Script		
Sound		
Log	•	
LookAndFeel	0 0	Add Remove
	Sender address	PowerNETGuard@power.net
	SMTP server	legexc
	Authentication	Extended MAPI
	User name:	
	Password:	
		Test
		OK Cancel

On this screen the email service can be configured. In particular for each priority level it is possible to define an address list for sending event notification emails. It is possible to configure the sender's email address and lastly it is possible to insert the address of the SMTP server used for sending emails. When required by the server, it is possible to insert the authentication data (username and password). Alternatively, is possible to use "Extended MAPI" for connecting to Microsoft Exchange servers. For testing the correctness of these settings, it is possible to send a test email.

SMS CONFIGURATION

Preferences			X
Language	SMS		
Service WAP WEB Auto walk LookAndFeel Iconset Alarms Email SMS Script Log	Alarm level SMS +391234567890	Major	
		Add Remove	
	GSM Port:	COM1	
	SMS Center:	+3923412345678	
	Init string:	ATZ	
	Send string:	AT+CMGS	
		Test	
		OK Cancel	

On this screen the SMS service can be configured. In particular for each priority level it is possible to define a cell phone number list for sending event notification SMS. It is also possible to insert the serial port on which a GSM modem is present, the SMS centre number used for message sending and the init and send strings. For testing the correctness of these settings, it is possible to send a test SMS.

OTHER CONFIGURATION

For each alarm level, it is possible to execute a script, an audio file (MP3 or WAV) or register it on the log. The scripts are called with the parameters in this oder:

- 1. Device name
- 2. IP Address
- 3. Type of alarm
- 4. Date and time
- 5. Estimated autonomy