For Network Management Card User Manual



Minislot 66244



Transverse 66074

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T H E U N I N T E R R U P T I B L E P O W E R P R O V I D E R

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### 1 Introduction

This document describes how to use the Network Management Card Firmware Utility software (Mupgrade) to discover, upgrade and configure Network Management Cards linked to the network.

The following functions are available:

- Auto-discovery of your installed base (Model card, IP address, MAC address, firmware card release embedded...)
- Direct link to the card Web interface.
- Firmware upgrade (single card or multicards)
- Import, modify, save, export Network Management Card configuration (single card or multicards)

#### 2 Installation

**Mupgrade** program is available from MGE Web Download area <u>http://www.mgeups.com/download</u> or on the Solution-Pac 2 CDROM.

Run the Setup.exe file and follow the instructions.

A shortcut is placed in the program menu in the group « MGE UPS SYSTEMS »

Note:

1. If you have only UNIX or Linux platform, you cannot use this software but upgrading is possible through TFTP command. Read the Network Management Card user manual to get more information on this function.

tftp -i @IP put nmc\_fb.bin <u>upgrade@password@username</u>

#### 3 Best environment to use it

This software utility has the best performance if it is principally used in INTRANET architecture. If used in EXTRANET, some limitations can be discovered because of firewalls existence.

Compatible with Microsoft platforms:

- Windows 98
- Windows NT
- Windows Millenium
- Windows 2000
- Windows 2003
- Windows XP

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### 4 Cards compatibility

MUPGRADE is com	pliant with	following	cards:
-----------------	-------------	-----------	--------

	Management	Management	SNMP/Web	SNMP/Web	SNMP card
	Card Minislot	Card Transverse	Minislot card	Transverse card	66245
	66244 ≥ FB	66074 ≥ FB	66244 < FB	66074 < FB	
Discovery	Yes	Yes	Yes	Yes	Yes
Internet link	Yes	Yes	Yes	Yes	No
Firmware	Yes	Yes	Yes	Yes	Yes (legacy
upgrade					firmware)
Configuration	Yes	Yes	No	No	No
management					

Note. XML- Web card (66073) is not compliant with Mupgrade.

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### 5 Operations description

#### 5.1 Start and Stop Mupgrade

Once installed, use the Mupgrade shortcut placed in the program menu to launch the software.

Т	he following	window is o	displayed :		Remote			-11
MOE UPS SYSTEMS Network Management Cards upgrade utility BAb3 Firmware Upgrade Remote Configuration Network Man ment Cards (NMC)					Configution tab.			
IP Address	UPS Name	UPS Location	Configuration ID	Firmware ID	Usemane	Password		
Firmware Upgrade tab.	rmations		Brows	Cards essen	list with tial inform	nation.	VI: Discover	1
sion No		Date Cod	ie		File Size	Δ	Upgrade	1
More informatio about cards.	<b>n</b>		0	ilt	Firmware informati	on area.		

Use the Quit button to exit the program

#### 5.2 Discovering the Network Management Cards

Autodiscovery is based on a TFTP broadcast, access to cards which belong to another group can be limited by routers and switches configuration.

Click on the button **Discover** and wait the end of the research. Once this research is completed all the Network Management Cards or SNMP cards connected to your WAN are displayed as follow:

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P Address	UPS Name	UPS Location	Configuration ID	Fitmware ID	Usemame	Password	
172.17.20.143	Extreme 1000C	MGEUPS		FB	MGEUPS		
172.17.20.152	Galaxy PW On L	PW rez de ch		FB	MGEUPS		
172.17.20.196	Pulsar Extreme 1	E1 C085	PVI	FB	MGEUPS		
172.17.20.150	Galaxy PW On L	Galaxy PW MIS		FB	MGEUPS		
172.17.16.243	Galaxy PW SingL.	Labo CEM	Unknown	FA,	MGEUPS		
172.17.20.184	2 Galaxy//	Software Sup	SSW/	FB	MGEUPS		-
age Informati	on	Date Cod	e		File Size		Upgrade

#### - Firmware Upgrade Window -

To open a card Web interface, select a card and then click on **Browse** button.

**Add** button allows to add cards to the list for those which can not be reached with the discovery function.

**Remove** button allows to delete from the list all cards you don't want to perform any action with.

**Note:** To discover Network Management Card in factory configuration (172.17.xxx.xxx) placed in the same subnet than the PC running Mupgrade, you can change the route table of your PC in using the following command in a Command Prompt window: ROUTE ADD 172.17.0.0 MASK 255.255.0.0 « your PC IP »

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#### 5.3 Enter Username and Password

- For a single card : Select a line and click on « Modify » or double click on the line
- For several cards : Select all the cards you need by using the keys : CTRL, SHIFT, TAB, SPACE and click on the title area of the column Username and Password to enter Username and Password
- By default, Username/Password is MGEUPS/MGEUPS.

Firmware Upgrade Network Manag	1 - Selection Correspondence Corresp	ct the lines onding to the be modified	3Ab3		<b>2</b> – top	Click on the of the column
IP Address	UPSN	UPS Location Configuration	ID Firmware ID	Username	Password	
£17217.20.143	EXtreme_000C	MGE UPS SYSTEMS Batch s	letting X	MGEUPS		
172.17.20.152	Galaxy PW On L			MGEUPS		
£172.17.20.196	Pulsar Extreme 1			MBELIPS		
172.17.20.150	Galaxy PW On L	Password:		3 - Ent	er the	
172.17.16.243	Galaxy PW SingL.	r assertar a			ord Default	ie
£ 172.17.20.184	2 Galaxy//			MGEL		· ·
C Show All Info	rmations	ОК	Cancel			Discover
Version No FB	n	Date Code Oct 01, 20	004	File Size 7	66,320	Upgrade
File Name D:\0	_Work\Config\to	ool\Ushiyupi7\FWFBb2_S	WBAb3_1001200	04\34003666	FBb2.BIN	Open
			Quit			

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### 6 Upgrade the Network Management Card firmware

To upgrade the card firmware:

Download the last firmware release from the MGE Web site: http://www.mgeups.com/download/.

- 1. Load the new firmware file by clicking on **Open** button inside the « Firmware Upgrade » page.
- 2. Verify you have loaded the good release in the « Version No » window.
- 3. Select the card(s) you want to upgrade.
- 4. Check that Username and Password are filled in.

MGE UPS SYSTEMS	Network Manage		t the mate				×		
Firmware Upgrad	le   Remote Conf gement Cards (N	3 - Selec correspo UPSs to	t the lines nding to the be modified		4 – Enter U Password.	Jsername a	nd		
IP Address	UPS Name			mware ID	Usemane	Password	<b>▲</b>		
172 17.20.151	Galaxy 3000 10	JI and test	MGEUPS	FB	MGEUPS				
172.17.20.196	Pulsar Extreme 1	E1 C085	PVI	FB	MGEUPS				
E 172 17.20.201	Evolution 500	E1 C085	PVI sensor	FB	MGEUPS	XEXE			
172.17.20.101	EXtreme 1000C	E1 C085	PVI sensor	FB	MGEUPS				
172.17.20.184	2 Galaxy//	Software Sup	SSW/	FB	MGEUPS				
£ 172.17.23.151	2 Galaxy//	Software Sup	SSW	FB	MGEUPS		5 – Click on		
□ Show All Informations									
Version No FB	Version No FB Date Code Oct 01, 2004 File Size 766,320 Upgrade								
File Name C:\	File Name C:\temp\340036 2 - Check the firmware level of the .bin file. 1 - Load the new firmware								

5. Click on **Upgrade** button and after on **OK** to send the new firmware to the cards.

Upgradii	ng							
170 1	7 00 100							
172.1	7.20.196							
	18%							
172.1	7.20.201							
	17%							
172.17.20.101								
	18%							

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6. Upgrading leaves about 30 seconds / card (depend on traffic network). When it is finished, the card restarts and a similar pop-up appears :

MGE UPS	SYSTEMS Information	X
i	SUMMARY:	
$\checkmark$	172.17.20.101 OK.	
	172.17.20.196 OK.	
	172.17.20.201 OK.	
	ОК	

#### Note:

- 1. You can select a large number of UPSs at the same time, Mupgrade will manage download operation by group of 4 UPSs.
- 2. Check on the firmware release note if specific operations are needed after a firmware upgrade. (Factory reset, Trap receivers subscription,..)
- 3. If the download operation fails for any raison, correct the problem (restart PC running Mupgrade, check network connectivity, ..) and retry a download operation **without resetting the card** during that time.
- 4. If the card is no more accessible after a problematic download operation, use the download.exe utility available on the MGE Web site: <u>http://www.mgeups.com/download/</u>.
- 5. Firmware file for SNMP card (66245) is not compatible with Network Management Card file and vice versa.

If you try to updrade a card with a firmware file not compatible the following window is disp
---

MGE UPS	5 Systems Information 🛛 🔀
<b>(i)</b>	Image is not compatible with following card(s) !
~	172.17.16.24
	The card(s) will not be upgraded !
	ОК

### 7 Remote Configuration

The Remote configuration function allows you to import, modify and export configuration from and to Network Management Cards.

Four steps to configure all your Network Management Cards:

1. Configure a Network Management Card located on the network through the html interface to create a master configuration. Refer to the Network Management Card user manual for details.

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- 2. Import this configuration from the master card.
- 3. Edit and change some parameters and **select the fields whose must be overwritten in the destination cards** and save the new configuration in a file.
- 4. Export the new configuration to other cards which have **same firmware release** than the master card

This feature is available starting card firmware release FB:

There is no compatibility limitation depending on the UPS model used or on the Network Management Card model (Transverse or Minislot). A configuration file is compatible with all the other cards which have the same firmware revision.

#### 7.1 Import configuration

This function permit to import all the parameters managed in the Network Management Card Web interface:

1. Select one card and enter the Username and Password (see 6.2)

2. Click on Import										
MGE UPS SYSTEMS Network Management Cards upgrade utility BAb3										
Firmware Upgrade Remote Configuration 1 – Select the Remote Configuration tab.										
IP Add	ress	UPS Name	UPS Location	Configuration ID	Firmware ID	Usemane	Password	▲		
6172	17.16.243	Galaxy PW Singl	Labo CEM	Unknown	FA	MGEUPS				
C172	17.20.113	Evolution 500	E1 C085	PVI sensor	FB	PVI				
6 172	17.20.111	EXtreme 10	E1 C085	PVI sensor	FB	PVI	XBXB			
6 172	17.20.112	Pulsar		that	FB	PVI				
6 172	17.20.102	$\mathbf{D}$ $\mathbf{Z} = \mathbf{S}\mathbf{E}$	the meeter		FB	PVI	4 – Click c	on Import to		
172	17.16.73		the master	m	**, **	PVI	start the ir	nport		
□ Show All Informations Browse Add Mo operation										
Image Information 3 - Click on browse to open the card Web interface and make the changes you want on ID Export Import Edit										
		Save your	modifications	S. Qui	it					

When import is finished, the following notification appears:



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#### 7.2 The configuration editor

At end of the import, the configuration editor opens automatically. It allows you to edit, change or mask some parameters to prepare your configuration to be exported to your installed UPS base.

The names of the items are the same than in the Network Management Card Web interface. The following syntax is used:

Box is not checked: the page / data will not be overwritten when exporting the file.

Box is checked: the page / data in the uploaded card is overwritten when exporting the file.

□ □ Indicate a page with fields separately selectable. None of the fields in the page are selected

 $\mathbf{E}$  Indicate a page with fields separately selectable. All the fields in the page are selected.

Indicate a page with fields separately selectable: Some of the fields in the page are selected.

Proceed as following to personalize your configuration.

- 1. Import a configuration from a programmed card or open an existing file.
- 2. Select which parameters need to be duplicated in all your cards.
- 3. Save your configuration and close the editor.

RemoteConfig - Untitled.cfg  Fie MGE UPS Configuration ID UPS Control Week, checkle Shutdown Pa Email Notification Subtest Mask Gateway Address Subnet Mask Gateway Address Network Settrop Pimay DNS Secondary DNS Secondary DNS Secondary DNS Secondary DNS Shuthentication Authentication Authentication Authentication Authentication System Settings Notified Applications Central Shutdown Configur Access Control Time Environment Settings Control	You It w Che you Defin page. Chan UPS Chan UPS config Gateway Chec in all Domain Name All Sep BootPDHC Network Up Primary DNS Secondary DNS SMTP Server Authentication	<pre>a can attribute an identifier to the configuration. ill appear in the Mupgrade interface. eck the box to duplicate the Configuration ID in all r cards. e all the parameters set in the UPS Control Web ge for this settings can only be done in in the Control Web page. (need to re-import guration after) k the box to duplicate the UPS Control settings your cards. the fields of the Network Settings Web page can be eratly selected eck the box to duplicate the SNMP Server setting in your cards.</pre>
	e done directly in the edito	or MOEUPS
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#### 7.3 Export configuration

- 1. Load the configuration file by clicking on **Open** button inside the **Remote Configuration** page.
- 2. Verify you have loaded the good file in the **Image Information** window.
- 3. Select the card(s) you want to configure.
- 4. Check that Username and Password are filled in.

Firmware Upgrade	- Network Me Remote ( ement Card:	<b>3</b> - Select the corresponding the configure	e lines ng cards to d.		4 – If nec Usernam	essary, en e and Pas	ter sword.
IP Address	UPS Name	1 on	Configuration ID	Firmware ID	Username	Password	·
172.17.20.183	Galaxy PW On L	MRY PW MIS	my cfg	FB	MGEUPS	****	
172.17.20.112	Pulsar Extreme 1	E1 C085	PV1	FB	MGEUPS		
2172.17.20.113	Evolution 500	E1 C085	PVI sensor	FB	MGEUPS	****	
2 172.17.20.111	Externe 1000C	E1 C095	PVI sensor	FB	MGEUPS		
172.17.20.184	2 Galaxy//	Software Sup	SSW.	FB	MGEUPS		
2 - Check the configuration information. SSW FB MGEUPS Image: State of the configuration information.   Browse 5 - Click on Export. Discover							
Image Information Date Code Oct 7, 2 File Size 16,896 Configuration ID my cfg Export Import Edit   File Name C:\temp\my config.cfg Open							
Ouit 1 – Load the new configuration file						v	

5. Click on Export button and after on YES to confirm your choice.



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6. Export leaves about 5 seconds / card (depend on traffic network). When it is finished, the card restarts and a similar pop-up appears :

MGE UPS SYSTEMS Information			
(i)	SUMMARY:		
Y	172.17.20.143 OK. 172.17.20.193 OK. 172.17.16.73 OK. 172.17.20.178 OK. 172.17.20.178 OK. 172.17.20.140 OK. 172.17.20.183 OK. 172.17.20.115 OK. 172.17.20.112 Authenticating Fall ! Please verify Account and Password !!		
	OK I		

#### Note:

You can select a large number of UPSs at the same time, Mupgrade will manage download operation by group of 4 UPSs.

#### 8 Miscellaneous

#### 8.1 Icon description in the UPS list

The icon on the left part of the UPS List gives an indication of the model card and its status:

Icon		Definition
e	-	Web compliant
	-	The card is ready to upgrade
	-	Upgrade image is suitable for this card
	-	(Note: The background color is white)
	-	Web compliant
	-	The card's 'Network Upgrade' setting is set to "Disabled». See HTML page
		Network Settings
	-	The card is not ready to upgrade or can not be upgraded
	-	Upgrade image is not suitable for this card
	-	(Note: The background color is yellow)
	-	Network communication is lost with the card
	-	Not Web compliant
	-	The card's UFTP setting is set to "Disabled"
	-	The card is not ready for upgrade or can not be upgraded
	-	Upgrade image is not suitable for this card
	-	Not Web compliant
	-	The card is ready for upgrade
	-	Upgrade image is suitable for this card