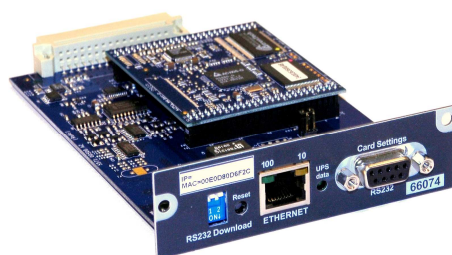
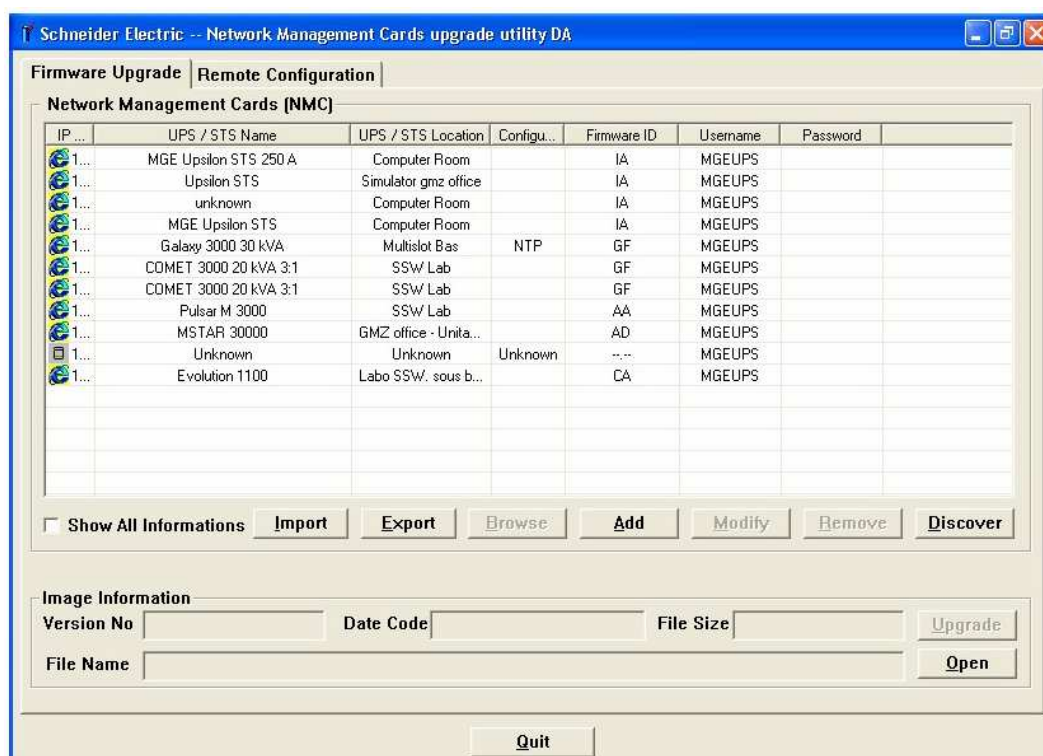


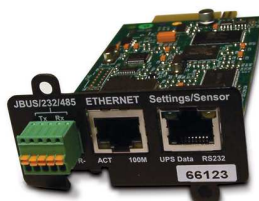
Mupgrade Utility

For Network Management Cards

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NMC Transverse
66074



NMC Teleservice
66124



NMC with ModBus/Jbus
66123

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Mupgrade Utility

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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)
- Export / import the list of the installed UPS base.

2 Installation

Mupgrade program is available from the www.apc.com Web site, 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 « Schneider Electric »

Note:

If you have 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 <Entrer>
tftp> mode octet
tftp> verbose
tftp> put nmc_gb.bin upgrade@password@username <Entrer>
Sent 779120 bytes in 85.3 seconds [73096 bits/s]
tftp> quit <Entrer>
```

Note: TFTP upgrade is only working 66074 products.

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 2000
- Windows 2003
- Windows XP
- Windows Vista
- Windows 2008
- Window Seven

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4 Compatibility

4.1 Cards compability

MUPGRADE is compliant with following cards:

	66074 < FB	66074 ≥ FB	66123 and 66124
Discovery	Yes	Yes	Yes
Internet link	Yes	Yes	Yes
Firmware upgrade	Yes	Yes	No ⁽¹⁾
Configuration management	No	Yes	No
Export / import list of installed base	Yes	Yes	Yes

Notes.

(1) : the firmware upgrade is available directly from the card web page. Mupgrade not necessary

Mupgrade Utility

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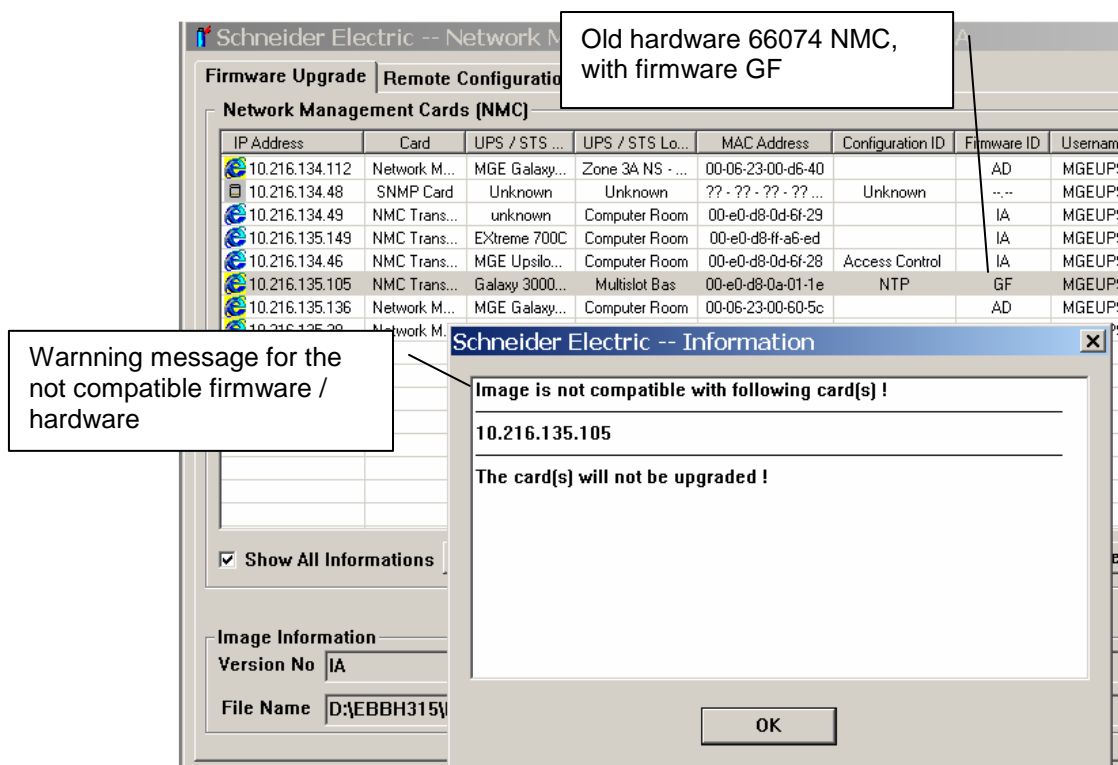
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4.2 Firmware compability

For the 66074 NMC, there is and lost of compability between hardware and firmware.

	66074 Technical Level < 12 Green PCB	66074 Technical Level ≥ 12 Blue PCB
Firmware upgrade	Last firmware release: GF	First firmware release: HA

So it is not possible to upgrade an 66074 NMC at technical level < 12 (green PCB), with a firmware equal or upper release HA.



Mupgrade Utility

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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.

The following window is displayed :

[illegible]

Mupgrade Utility

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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.

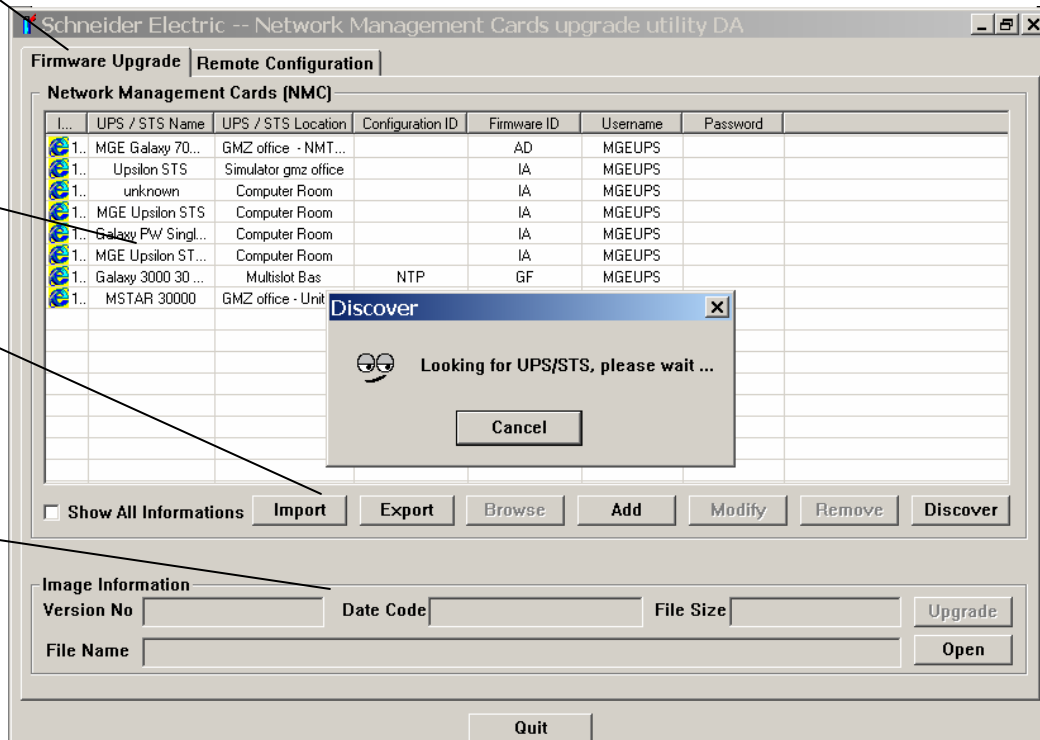
Click on the button **Discover** and wait the end of the research. To see more information about the cards select Show All Informations box. Once this research is completed all the Network Management Cards or SNMP cards connected to your WAN are displayed as follow:

Firmware Upgrade tab.

UPS / STS list

Import & Export
 UPS / STS list

Firmware Upgrade information area.



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.

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For Network Management Cards

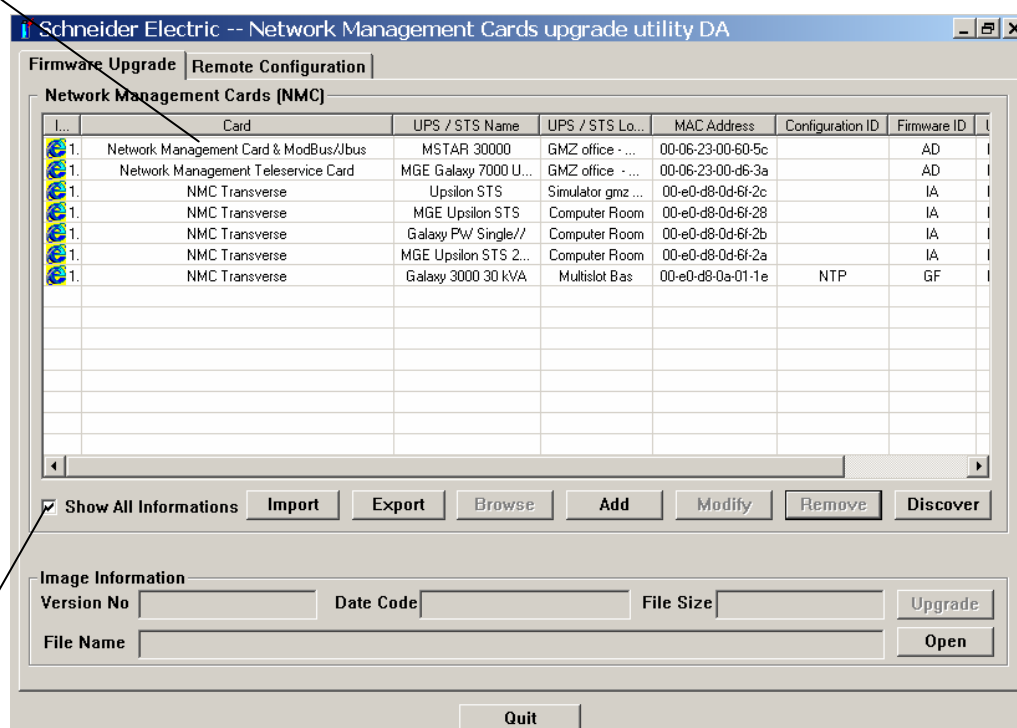
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5.3 Display the NMC Card by class (66074, 66123, 66124)

For displaying the king of NMC card, it is necessary to click on the “Show All information” box.
The differents NMC cards :

- NMC transverse, for 66074
- Network Management Card & Modbus/Jbus, for 66123
- Network Management Teleservice Card, for 66124

Different NMC
cards :
66074, 66123,
66124



Click on **Show All Informations**

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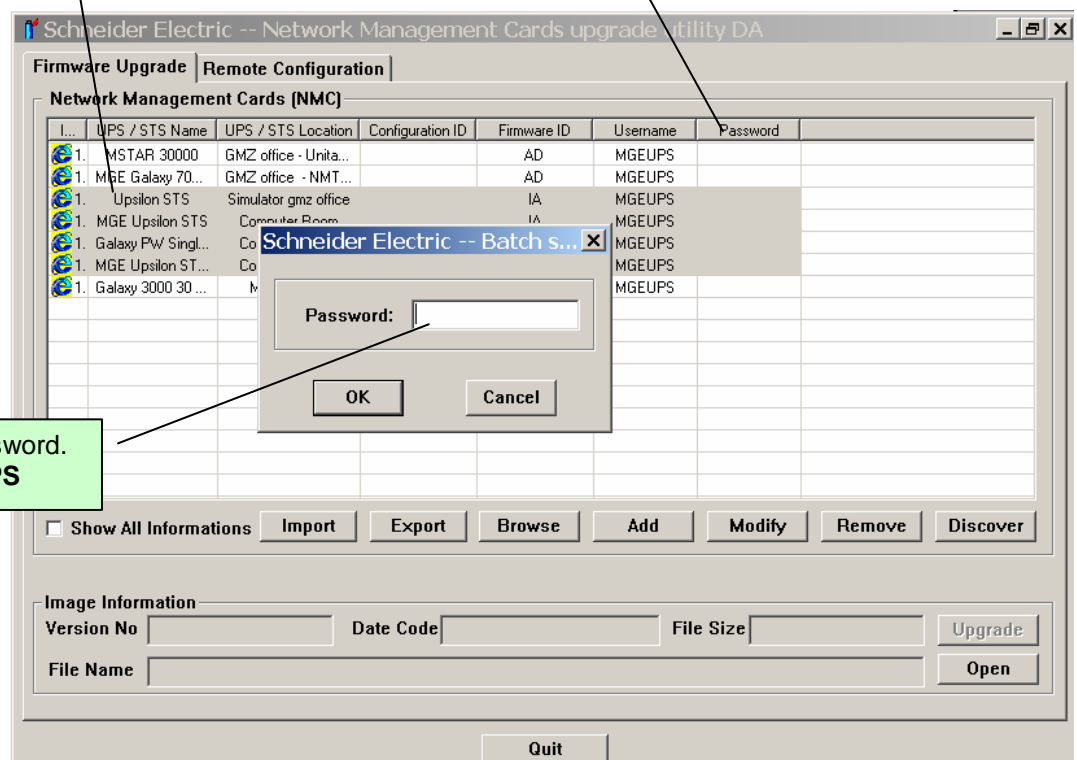
5.4 Enter Username and Password

- **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.

1 - Select the lines corresponding to the cards to be modified

2 - Click on the top of the column.

3 - Enter the password. Default is **MGEUPS**



6 Import and export installed UPS / STS list

Export Save the UPS / STS list (all NMC of your UPS / STS base), as a csv with all informations included.

Import button allows to load a list of IP address from a csv file, missing or uptodate information from UPSs are automatically updated.

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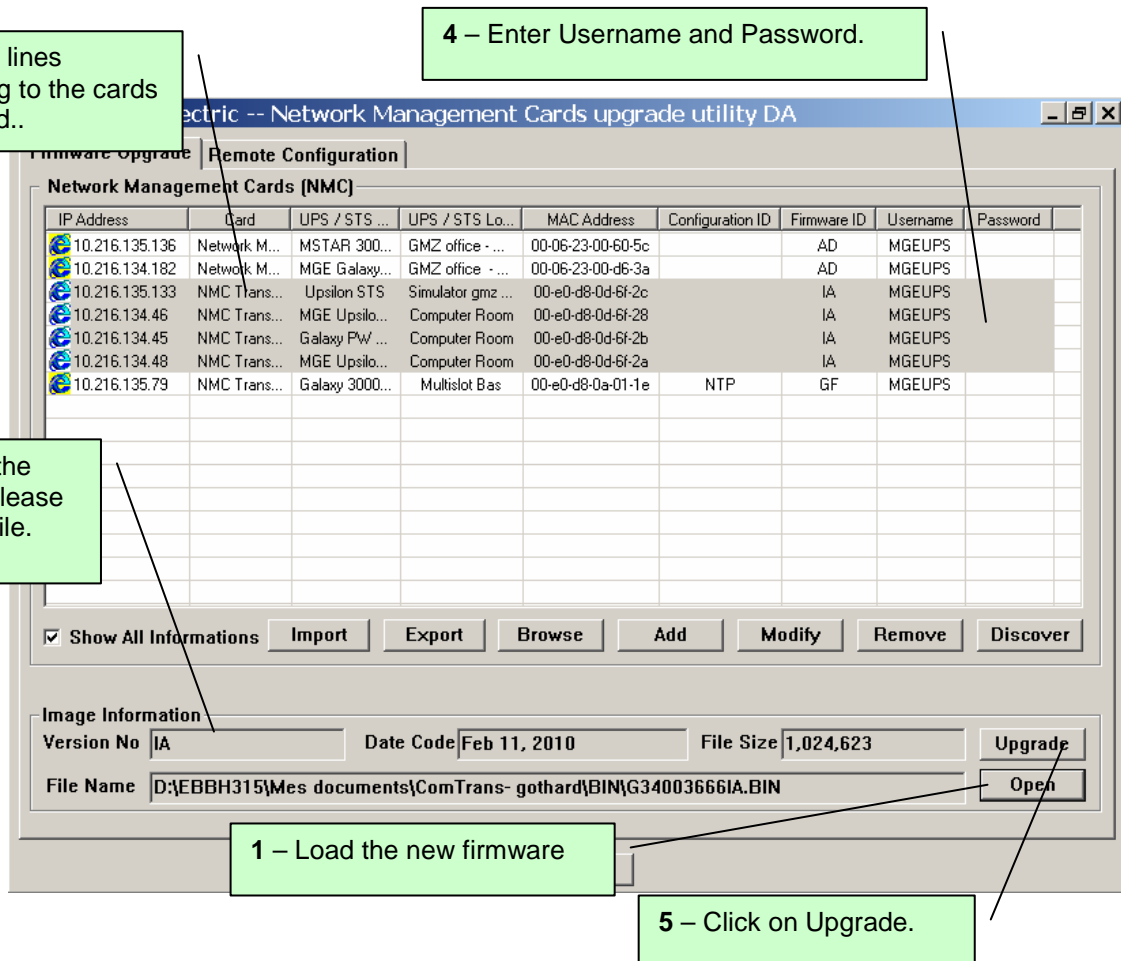
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7 Upgrade the Network Management Card firmware

Download the last firmware release from the www.apc.com Web site.

To upgrade the card firmware:

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.



The screenshot shows the 'Firmware Upgrade' tab of the 'Schneider Electric -- Network Management Cards upgrade utility DA' window. The window contains a table of Network Management Cards (NMC) and a section for loading and upgrading the firmware.

3 - Select the lines corresponding to the cards to be modified.. (Callout pointing to the table)

4 - Enter Username and Password. (Callout pointing to the Username and Password fields)

2 - Check the firmware release of the .bin file. (Callout pointing to the Version No field)

1 - Load the new firmware (Callout pointing to the Open button)

5 - Click on Upgrade. (Callout pointing to the Upgrade button)

IP Address	Card	UPS / STS ...	UPS / STS Lo...	MAC Address	Configuration ID	Firmware ID	Username	Password
10.216.135.136	Network M...	MSTAR 300...	GMZ office - ...	00-06-23-00-60-5c		AD	MGEUPS	
10.216.134.182	Network M...	MGE Galaxy...	GMZ office - ...	00-06-23-00-d6-3a		AD	MGEUPS	
10.216.135.133	NMC Trans...	Upsilon STS	Simulator gmz ...	00-e0-d8-0d-6f-2c		IA	MGEUPS	
10.216.134.46	NMC Trans...	MGE Upsilo...	Computer Room	00-e0-d8-0d-6f-28		IA	MGEUPS	
10.216.134.45	NMC Trans...	Galaxy PW' ...	Computer Room	00-e0-d8-0d-6f-2b		IA	MGEUPS	
10.216.134.48	NMC Trans...	MGE Upsilo...	Computer Room	00-e0-d8-0d-6f-2a		IA	MGEUPS	
10.216.135.79	NMC Trans...	Galaxy 3000...	Multislot Bas	00-e0-d8-0a-01-1e	NTP	GF	MGEUPS	

Image Information

Version No | IA | Date Code | Feb 11, 2010 | File Size | 1,024,623 | Upgrade

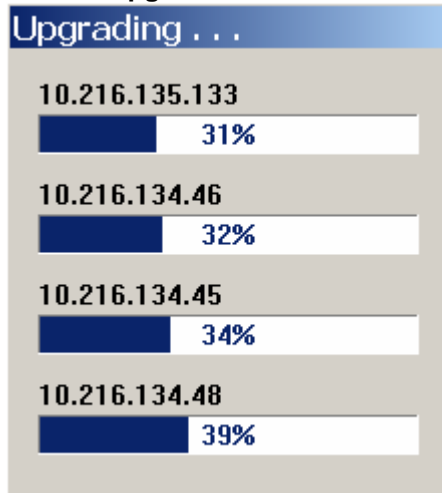
File Name | D:\EBBH315\Mes documents\ComTrans- gothard\BIN\G34003666IA.BIN | Open

Mupgrade Utility

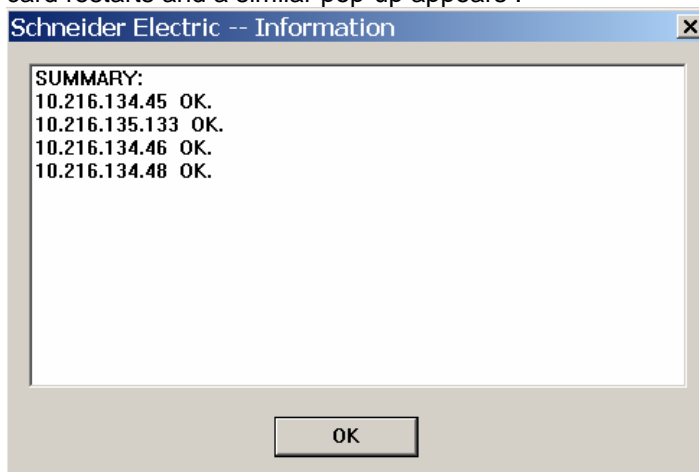
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5. Click on **Upgrade** button and after on **OK** to send the new firmware to the cards.



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



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 reason, 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 **MsUpgrade.exe** another utility available from your Customer Care Center

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8 Remote Configuration

The Remote configuration function allows you to import, modify and export configuration (settings) 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.
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. A configuration file is compatible with all the other cards which have the same firmware revision.

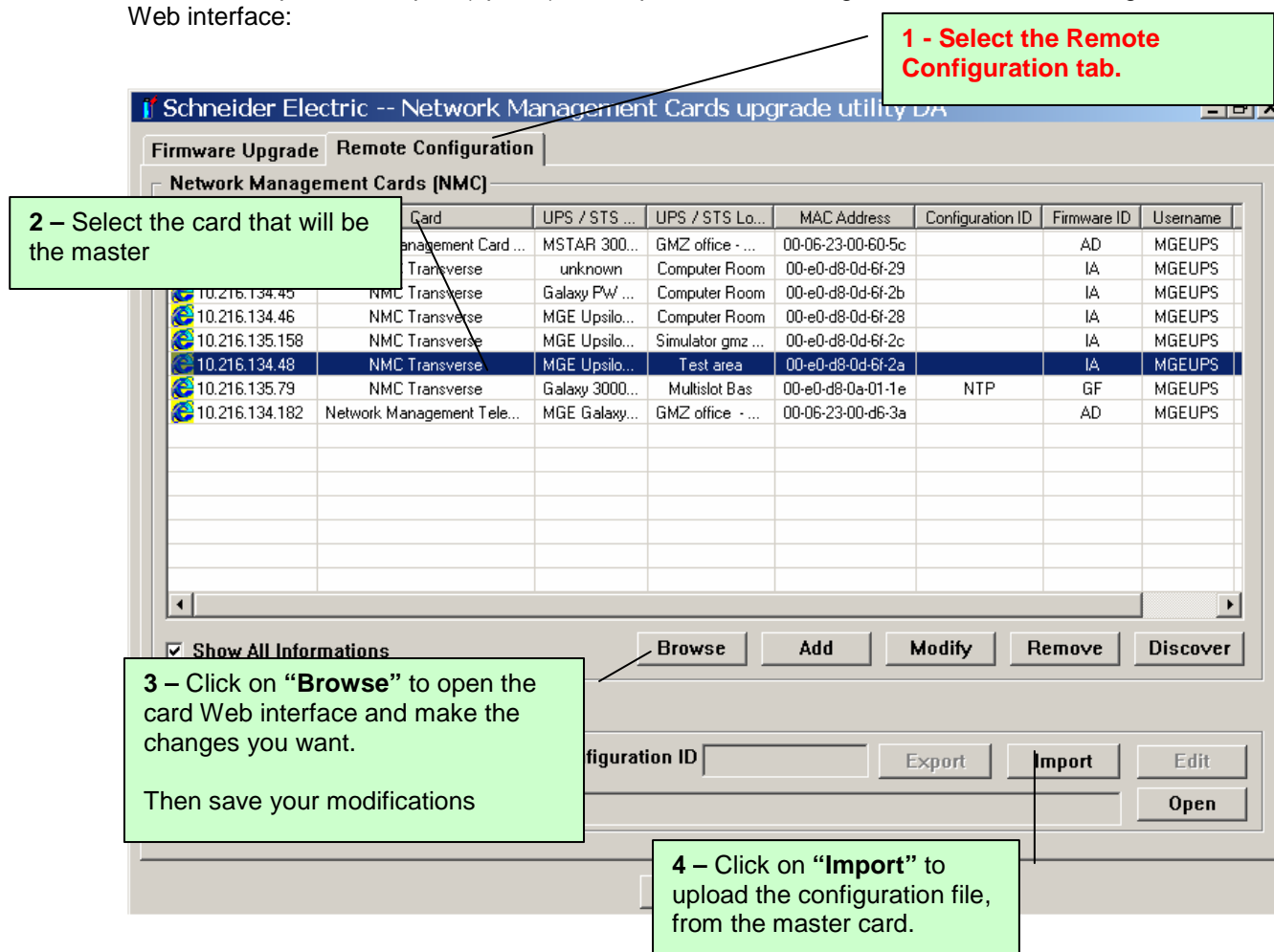
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8.1 Import configuration

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



1 - Select the Remote Configuration tab.

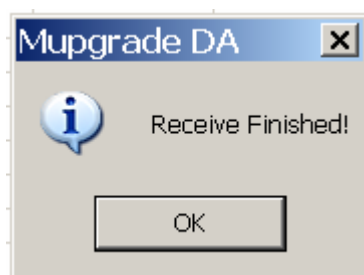
2 - Select the card that will be the master

Card	UPS / STS ...	UPS / STS Lo...	MAC Address	Configuration ID	Firmware ID	Username
Management Card ...	MSTAR 300...	GMZ office - ...	00-06-23-00-60-5c		AD	MGEUPS
Transverse	unknown	Computer Room	00-e0-d8-0d-6f-29		IA	MGEUPS
10.216.134.45 NMC Transverse	Galaxy PW ...	Computer Room	00-e0-d8-0d-6f-2b		IA	MGEUPS
10.216.134.46 NMC Transverse	MGE Upsilo...	Computer Room	00-e0-d8-0d-6f-28		IA	MGEUPS
10.216.135.158 NMC Transverse	MGE Upsilo...	Simulator gmz ...	00-e0-d8-0d-6f-2c		IA	MGEUPS
10.216.134.48 NMC Transverse	MGE Upsilo...	Test area	00-e0-d8-0d-6f-2a		IA	MGEUPS
10.216.135.79 NMC Transverse	Galaxy 3000...	Multislot Bas	00-e0-d8-0a-01-1e	NTP	GF	MGEUPS
10.216.134.182 Network Management Tele...	MGE Galaxy...	GMZ office - ...	00-06-23-00-d6-3a		AD	MGEUPS

3 - Click on "Browse" to open the card Web interface and make the changes you want.
Then save your modifications

4 - Click on "Import" to upload the configuration file, from the master card.

When import is finished, the following notification appears:



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8.2 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 / STS base.

The names of the items are the same than in the Network Management Card Web interface.

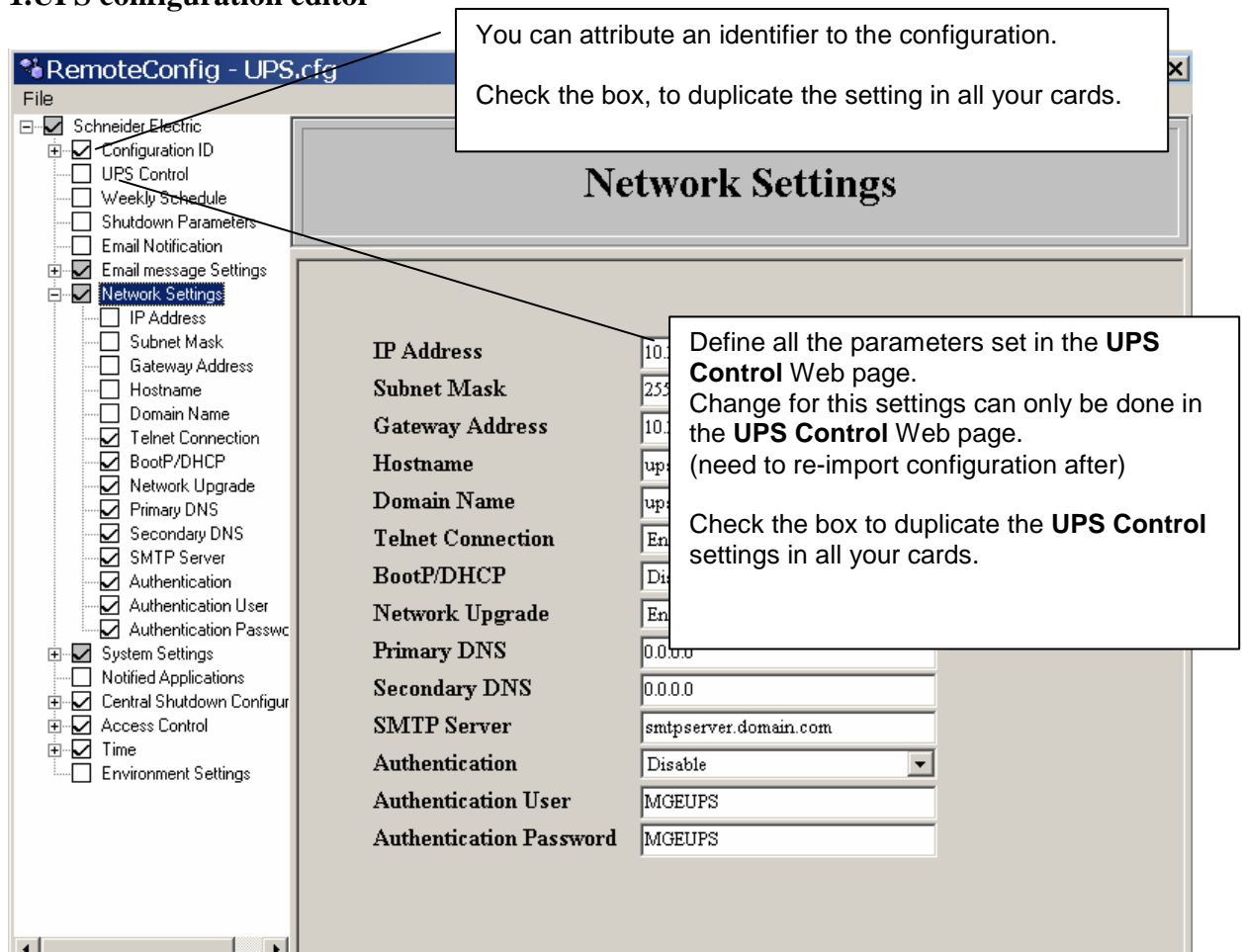
The following syntax is used:

- ☐ 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
- ☒ 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.

1.UPS configuration editor



You can attribute an identifier to the configuration.
Check the box, to duplicate the setting in all your cards.

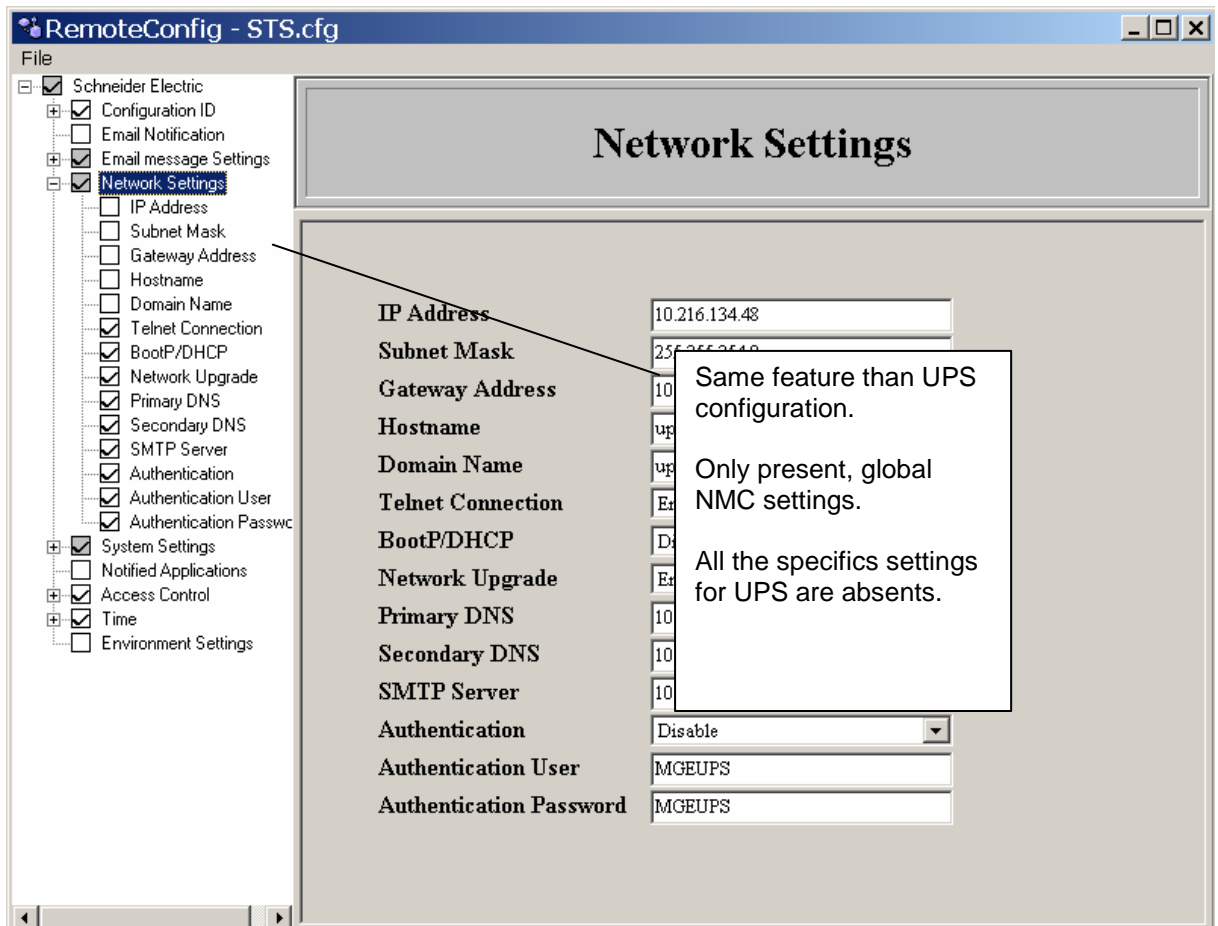
Define all the parameters set in the **UPS Control** Web page.
Change for this settings can only be done in the **UPS Control** Web page.
(need to re-import configuration after)
Check the box to duplicate the **UPS Control** settings in all your cards.

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2.STS configuration editor



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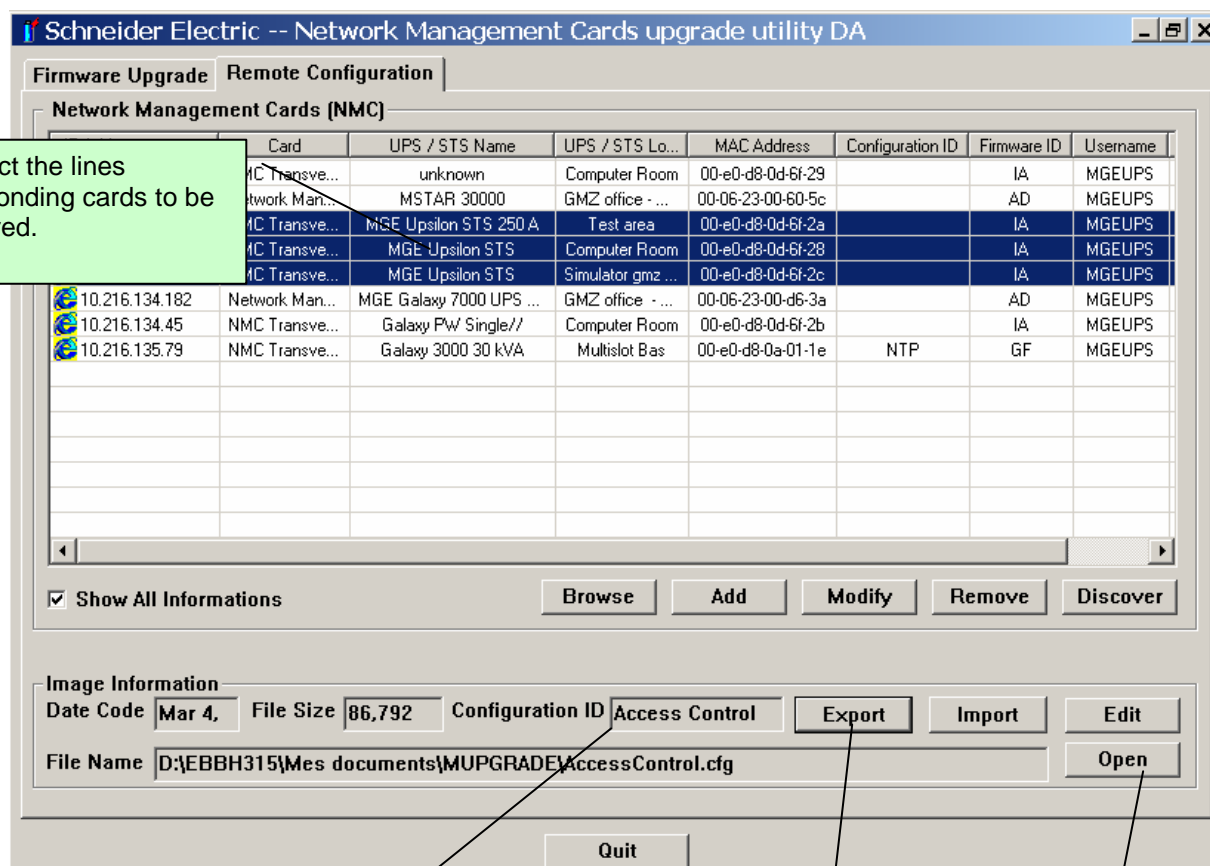
For Network Management Cards

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Export configuration

This function permit to export (download) all the parameters managed in the Network Management Card Web interface.

Be sure, you are inside the **Remote Configuration** page.



2 – Check the configuration information.

The configuration ID, also. It will be display after the end of export phase.

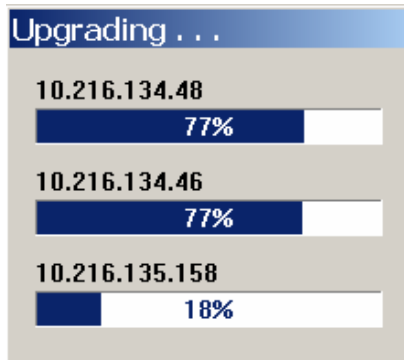
4 – Click on **Export**, to download the configuration file

1 – Load the new configuration file

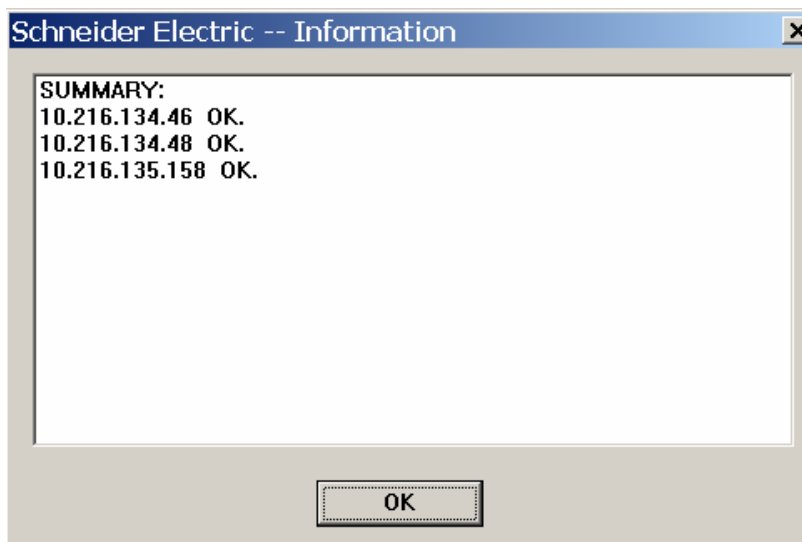
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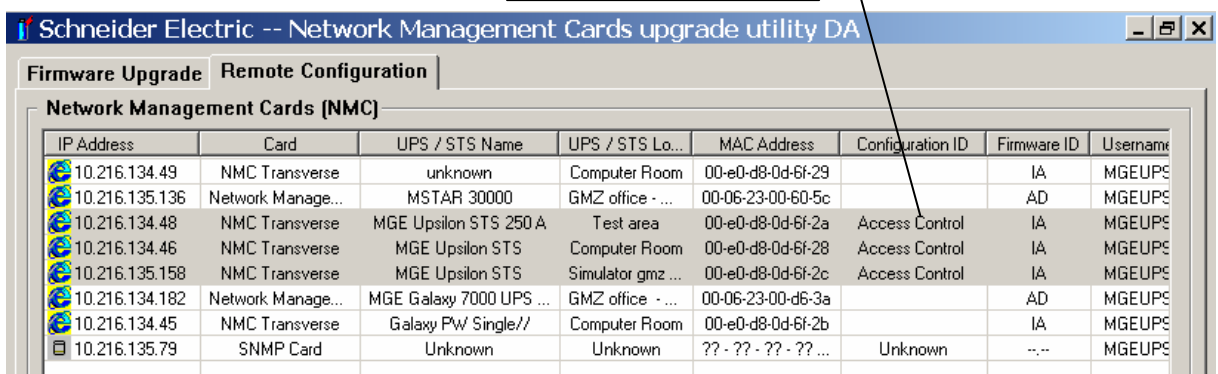
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6. Export leaves about 5 seconds / card (depend on traffic network). When it is finished, the card restarts and a similar pop-up appears :



The configuration file are now applied, with the Configuration ID



IP Address	Card	UPS / STS Name	UPS / STS Lo...	MAC Address	Configuration ID	Firmware ID	Username
10.216.134.49	NMC Transverse	unknown	Computer Room	00-e0-d8-0d-6f-29		IA	MGEUPS
10.216.135.136	Network Manage...	MSTAR 30000	GMZ office - ...	00-06-23-00-60-5c		AD	MGEUPS
10.216.134.48	NMC Transverse	MGE Upsilon STS 250 A	Test area	00-e0-d8-0d-6f-2a	Access Control	IA	MGEUPS
10.216.134.46	NMC Transverse	MGE Upsilon STS	Computer Room	00-e0-d8-0d-6f-28	Access Control	IA	MGEUPS
10.216.135.158	NMC Transverse	MGE Upsilon STS	Simulator gmz ...	00-e0-d8-0d-6f-2c	Access Control	IA	MGEUPS
10.216.134.182	Network Manage...	MGE Galaxy 7000 UPS ...	GMZ office - ...	00-06-23-00-d6-3a		AD	MGEUPS
10.216.134.45	NMC Transverse	Galaxy Pw Single//	Computer Room	00-e0-d8-0d-6f-2b		IA	MGEUPS
10.216.135.79	SNMP Card	Unknown	Unknown	?? - ?? - ?? - ?? ...	Unknown	---	MGEUPS

Note:

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

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9 Miscellaneous

9.1 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
	<ul style="list-style-type: none"> - Web compliant - The card is ready to upgrade - Upgrade image is suitable for this card - (Note: The background color is white)
	<ul style="list-style-type: none"> - 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)
	<ul style="list-style-type: none"> - Network communication is lost with the card
	<ul style="list-style-type: none"> - 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
	<ul style="list-style-type: none"> - Not Web compliant - The card is ready for upgrade - Upgrade image is suitable for this card