

Milpower Source

UPS

M359-1-1-1

M359-1-0-1

**Firmware Upgrade
Procedure**

for v2.01.03

Doc: M359_FUP_2

Rev (-)

August 9, 2011

Page 1 of 6

1. General

1.1. Scope

This document delineates the procedure for upgrading the Firmware of the M359 UPS SNMP agent.

This Procedure is relevant only to Rev E units running firmware version 2.01.03.

This procedure should be used only once per unit. Any future firmware upgrades should be done according to the M359_FUP_1 procedure. Attempting to use M359_FUP_1 upgrade procedure on units running firmware version 2.01.03 will result in error (no damage to the software).

For revision and firmware version verification see Appendix A and B

1.2. Required Hardware and Software

- 1.2.1. The M359-1-1-1 or M359-1-0-1 Unit to be upgraded ("the Unit").
- 1.2.2. A computer ("the Computer") with serial COM port, running Windows XP with .Net v3.5 or higher installed.
- 1.2.3. An DB9 (RS-232) cable 'straight through configuration'.
- 1.2.4. A copy of the Upgrade Program: "**UpsSwUpdater vxx_xx_xx.exe**" (e.g. "UpsSwUpdater v02_02_13.exe")
- 1.2.5. A copy of the Upgrade Program: "**UpsSwUpdater_for2.01.03**"

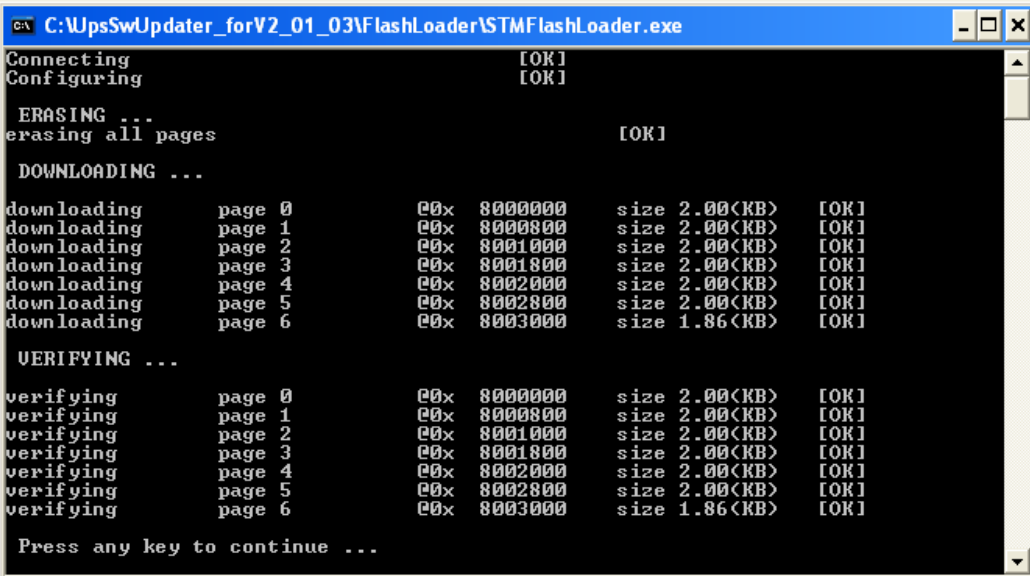
2. Upgrade Procedure

2.1. Preparations

- 2.1.1. Copy the "**UpsSwUpdater vxx_xx_xx.exe**" file and the "**UpsSwUpdater_for2.01.03**" directory to the Computer.
- 2.1.2. Turn on the Unit.
- 2.1.3. Important note: this upgrade procedure contains a critical section. If the procedure aborted during this section then the unit will have to be shipped to MPS for firmware installation.
- 2.1.4. Make sure that the DB9 cable is well connected both to the Unit and to the Computer.
- 2.1.5. Make sure that the UPS and the Computer are connected to the stable power source.
- 2.1.6. The upgrade procedure requires turning the UPS off, so make sure there are no critical loads connected to the UPS.
- 2.1.7. Note: After upgrading the software all user settable configurations will return to their default factory settings.

2.2. Installation of the Loader

- 2.2.1. Run the upgrade application file "**UpsSwUpdater.exe**" located inside "**UpsSwUpdater_for2.01.03**" folder. A new window will open.
- 2.2.2. The application will request upgrade confirmation.
- 2.2.3. Press 'y' (do not press "Enter").
- 2.2.4. The application will request the number of the Computer COM port (RS-232 port) connected to the UPS.
- 2.2.5. In case this upgrade procedure already has been performed the program will inform you that the current firmware version is wrong and will not proceed.
- 2.2.6. The application will request a password confirmation.
- 2.2.7. Enter the password (default "webpass"), and press the "Enter" key.
- 2.2.8. A new window will open and the installation procedure would begin.
- 2.2.9. If wrong password was entered then "No response from the target" message will be displayed. In this case, close the window and continue from step 2.2.1.
- 2.2.10. If the procedure completes successfully the screen will look like this:



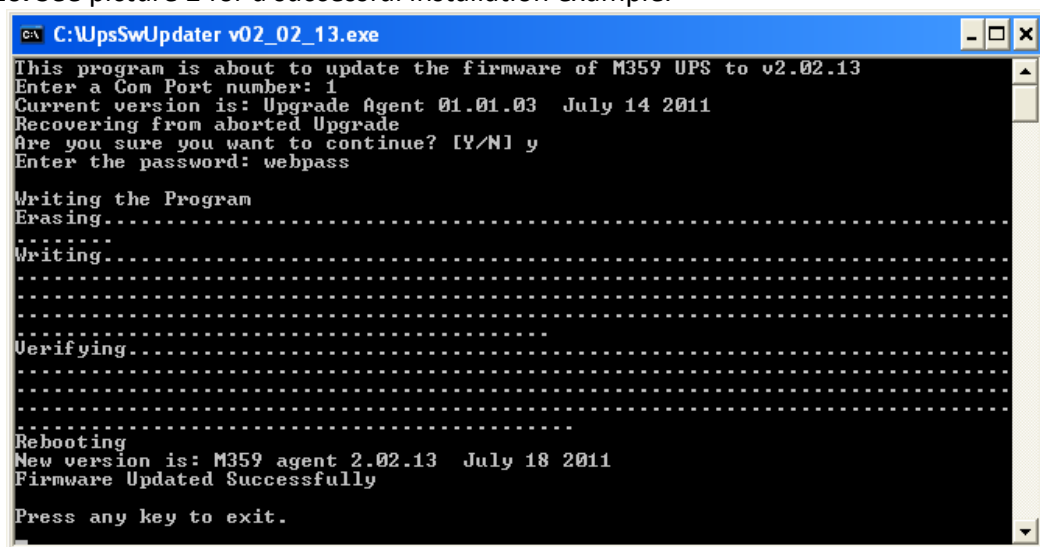
```
C:\UpsSwUpdater_forV2_01_03\FlashLoader\STMFlashLoader.exe
Connecting [OK]
Configuring [OK]
ERASING ...
erasing all pages [OK]
DOWNLOADING ...
downloading page 0 00x 80000000 size 2.00<KB> [OK]
downloading page 1 00x 80008000 size 2.00<KB> [OK]
downloading page 2 00x 80010000 size 2.00<KB> [OK]
downloading page 3 00x 80018000 size 2.00<KB> [OK]
downloading page 4 00x 80020000 size 2.00<KB> [OK]
downloading page 5 00x 80028000 size 2.00<KB> [OK]
downloading page 6 00x 80030000 size 1.86<KB> [OK]
VERIFYING ...
verifying page 0 00x 80000000 size 2.00<KB> [OK]
verifying page 1 00x 80008000 size 2.00<KB> [OK]
verifying page 2 00x 80010000 size 2.00<KB> [OK]
verifying page 3 00x 80018000 size 2.00<KB> [OK]
verifying page 4 00x 80020000 size 2.00<KB> [OK]
verifying page 5 00x 80028000 size 2.00<KB> [OK]
verifying page 6 00x 80030000 size 1.86<KB> [OK]
Press any key to continue ...
```

Picture 1

- 2.2.11. Press any key as requested. The window will close.
- 2.2.12. Turn the UPS off then wait (1) one minute before turning the UPS back on.

2.3. Installation of the New Firmware

- 2.3.1. Run the upgrade application file "**UpsSwUpdater vxx_xx_xx.exe**". A new window will open.
- 2.3.2. The application will request a number of the computer COM port (RS-232 port) connected to the UPS.
- 2.3.3. The application will state that it is recovering from aborted upgrade, and request upgrade confirmation for new version.
- 2.3.4. Press 'y' (do not press "Enter").
- 2.3.5. The application will request a password confirmation.
- 2.3.6. Enter the password (default "webpass"), and press the "Enter" key.
- 2.3.7. Installation procedure would begin.
- 2.3.8. After the firmware has been updated the SNMP agent will reboot and display the version of the installed firmware.
- 2.3.9. In case of successful installation "Firmware Updated Successfully" will be written on screen.
- 2.3.10. See picture 2 for a successful installation example.



```

C:\UpsSwUpdater v02_02_13.exe
This program is about to update the firmware of M359 UPS to v2.02.13
Enter a Com Port number: 1
Current version is: Upgrade Agent 01.01.03 July 14 2011
Recovering from aborted Upgrade
Are you sure you want to continue? [Y/N] y
Enter the password: webpass

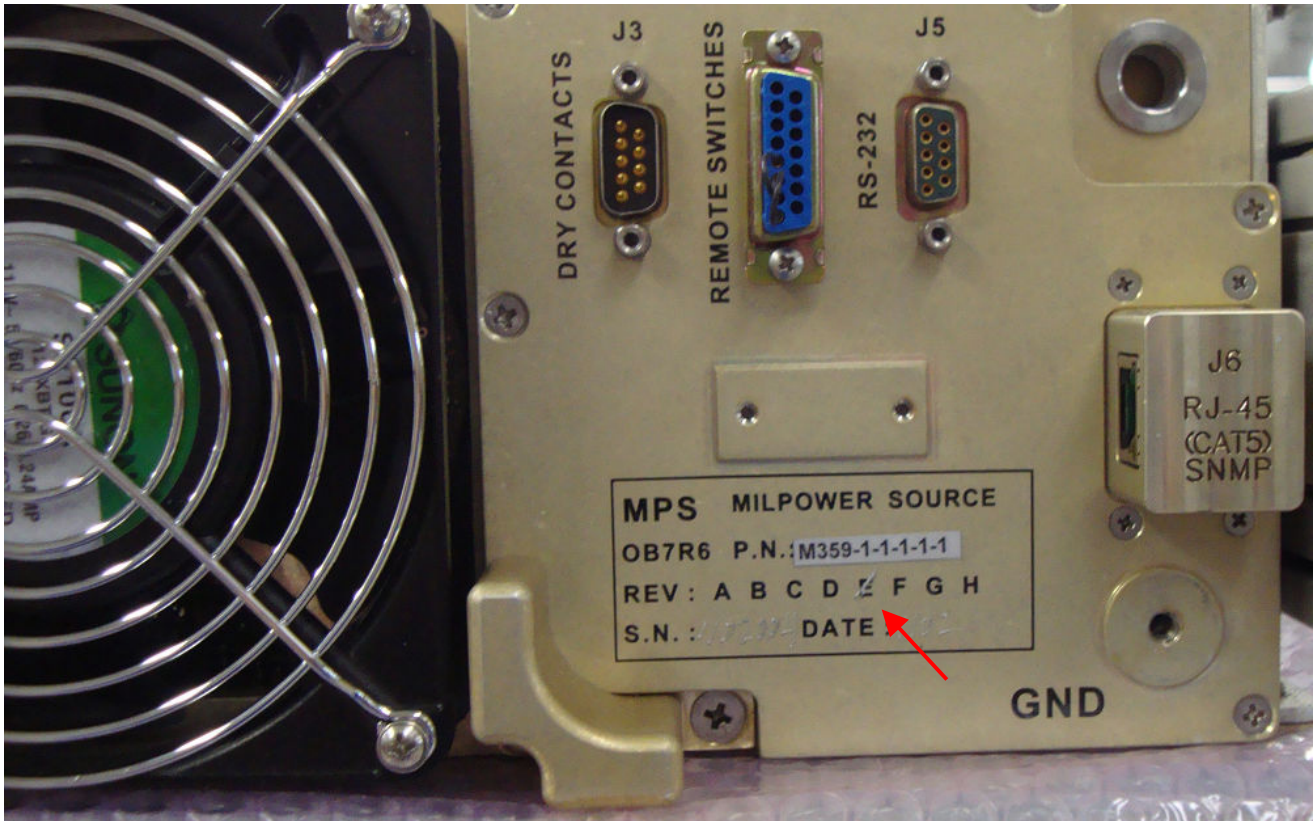
Writing the Program
Erasing.....
Writing.....
Verifying.....
Rebooting
New version is: M359 agent 2.02.13 July 18 2011
Firmware Updated Successfully

Press any key to exit.
```

Picture 2

3. Appendix A – M359 UPS Revision Verification

The M359 Revision mark is located on the back panel of the Unit - see picture 3:



Picture 3

4. Appendix B – M359 UPS Firmware Version Verification

- 4.1.1. Connect RS-232 cable between Unit's J5 connector and the Computer serial COM port.
- 4.1.2. Turn the Unit On.
- 4.1.3. From the "Start" menu, select "Programs/Accessories". Select "Communications/HyperTerminal". The "Connection Description" screen appears.
- 4.1.4. In the "Name" field enter a name for the connection, and click "OK". The Connect to screen appears.
- 4.1.5. In the "Connect To" field, select the appropriate COM port from the drop-down list box and select "OK". The COM Properties screen appears.
- 4.1.6. Select the parameters for the connection.
 - In the "Bits per second" field, select "19200".
 - In the "Data bits" field, select "8".
 - In the "Parity" field, select "None".
 - In the "Stop bits" field, select "1".
 - In the "Flow control" field, select "None".
- 4.1.7. On the COM Properties screen, select "OK" and press Enter. A connection is then established to the UPS and the <connection name> HyperTerminal screen appears.
- 4.1.8. Press Enter key
- 4.1.9. The **Agent Firmware** version is shown in the first line on the screen. Example for "UpsSwUpdater v02_02_13.exe":

```
ups - HyperTerminal
File Edit View Call Transfer Help
[Icons]
MilPower Agent Firmware VM359 agent 2.02.13 Build data: July 18 2011
System unique ID - 38:FF:DF:05:30:56:31:34:30:29:15:43
System mac addr - 00:04:A3:2A:37:D6
SNMP version - 2
MIB version - 2.04
DHCP for IP settings Disabled
IP address - 192.168.0.19
Netmask - 255.255.255.0
Default gateway - 192.168.0.1
get community string - public
set community string - private
trap community string - trap
Connected 00:04:27 Auto detect 19200 8-N-1 SCROLL CAPS NUM Capture Print echo
```