

*Milpower Source*

**UPS**

**M359-1-1-1**

**M359-1-0-1**

**Firmware Upgrade  
Procedure**

**Doc: M359\_FUP\_1**

**Rev (-)**

**August 9, 2011**

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## **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 higher than 2.01.03.

For Rev E units with 2.01.03 firmware version refer to M359\_FUP\_2

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 dot-Net v3.5 or higher installed.

**1.2.3.** An RS-232 cable 'straight through type'.

**1.2.4.** A copy of the Upgrade Program: "**UpsSwUpdater vxx\_xx\_xx.exe**" (e.g. "UpsSwUpdater v02\_02\_13.exe")

## **2. Upgrade Procedure**

### **2.1. Preparations**

**2.1.1.** Copy the "**UpsSwUpdater vxx\_xx\_xx.exe**" file to the Computer.

**2.1.2.** Connect RS-232 cable between Unit's J5 connector and the Computer serial COM port.

**2.1.3.** Turn the Unit On.

### **2.2. Installation of the New Firmware**

**2.2.1.** Run the upgrade application file "**UpsSwUpdater vxx\_xx\_xx.exe**". A new window will start.

**2.2.2.** The application will request a number of the computer COM port (RS-232 port) connected to the UPS.

**2.2.3.** The application will notify you the current version running, and requesting upgrade confirmation for new version.

**2.2.4.** Press 'y' (do not press "Enter").

**2.2.5.** The application will request a password confirmation.

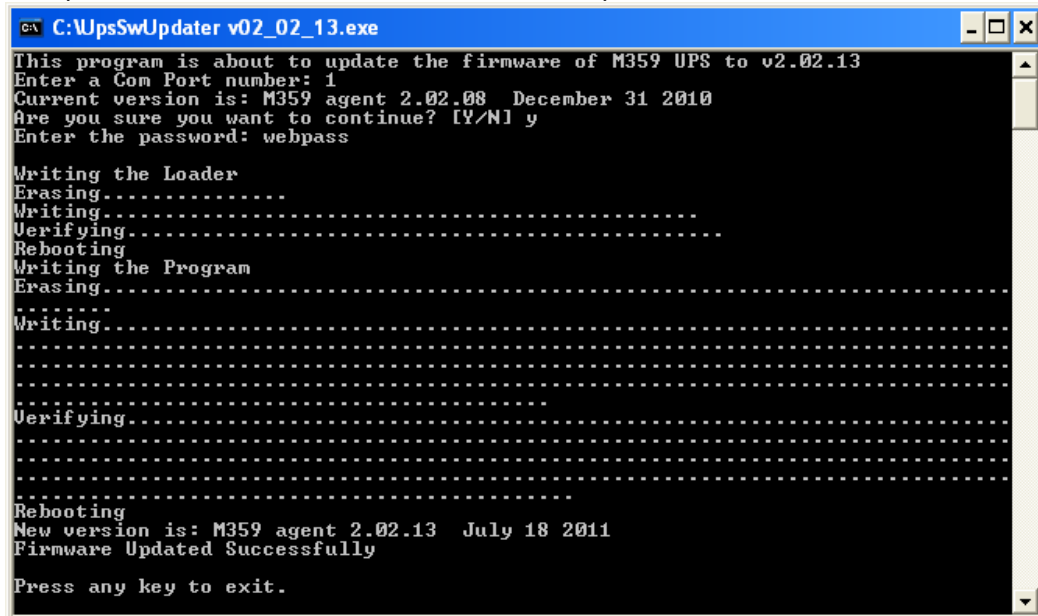
**2.2.6.** Enter the password (default "webpass"), and press the "Enter" key.

**2.2.7.** Installation procedure would begin.

**2.2.8.** After the firmware has been updated the SNMP agent will reboot and display the new software version.

**2.2.9.** In case of successful installation "Firmware Updated Successfully" will be written on screen.

2.2.10. See picture 1 for a successful installation example.



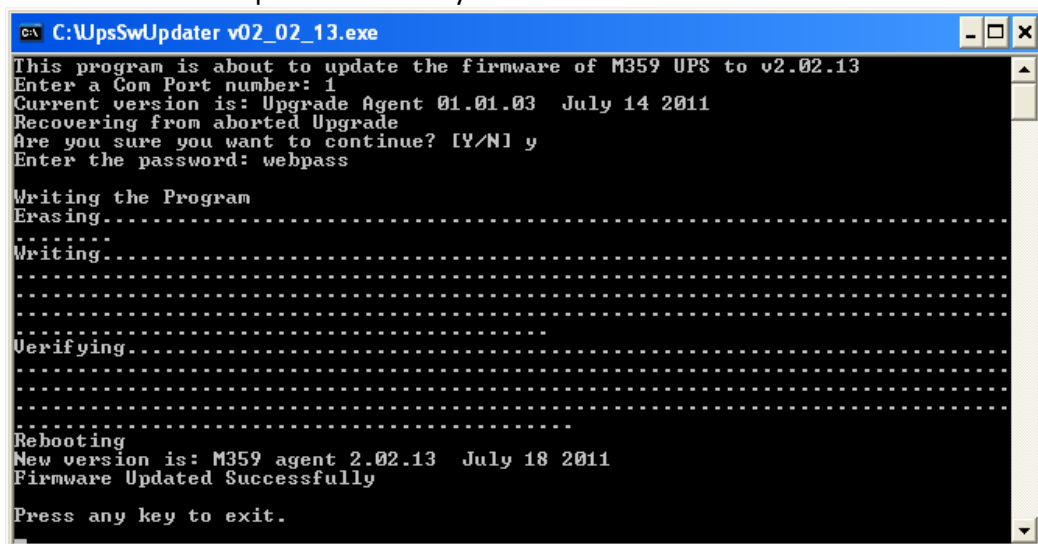
```
C:\WpsSwUpdater v02_02_13.exe
This program is about to update the firmware of M359 UPS to v2.02.13
Enter a Com Port number: 1
Current version is: M359 agent 2.02.08  December 31 2010
Are you sure you want to continue? [Y/N] y
Enter the password: webpass

Writing the Loader
Erasing.....
Writing.....
Verifying.....
Rebooting
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 1

2.2.11. If during the upgrade procedure power was disrupted, or cable was disconnected, restart the upgrading procedure.

Note: If the upgrade process was aborted for some reason it may leave the SNMP agent in a non-operating condition. This however does not influence the UPS controller, so that the UPS would continue working as before. In this case execute the upgrade procedure again – it will complete the upgrade and restore the SNMP agent in operating condition. See picture 2 for an example or a recovery.



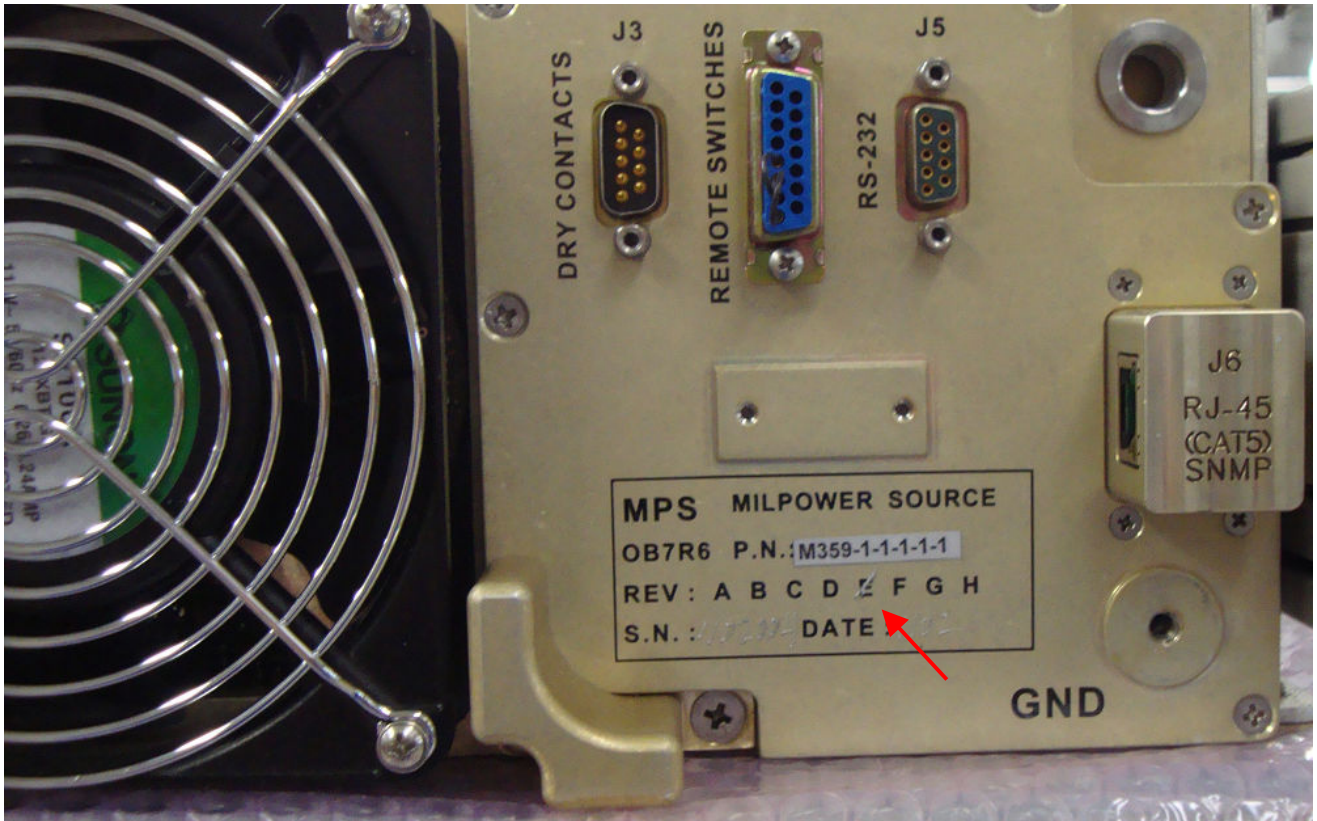
```
C:\WpsSwUpdater v02_02_13.exe
This program is about to update the firmware of M359 UPS to v2.02.13
Enter a Com Port number: 1
Current version is: Upgrade Agent 01.01.03  July 14 2011
Recovering from aborted Upgrade
Are you sure you want to continue? [Y/N] y
Enter the password: webpass

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

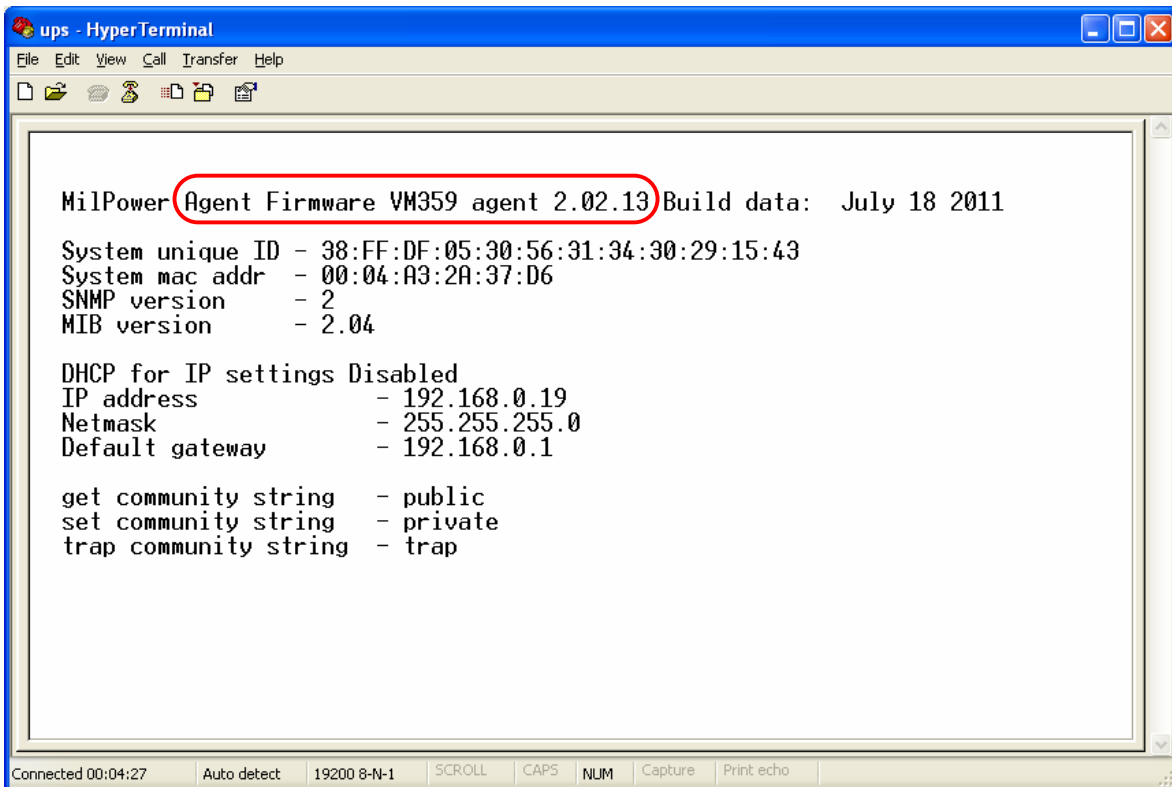
The M359 Revision mark is located on the back panel of the Unit - see picture 3:



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 Windows "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" screen, 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 as follow:
  - "Bits per second" - "19200"
  - "Data bits" - "8"
  - "Parity" - "None"
  - "Stop bits" - "1"
  - "Flow control" - "None"
- 4.1.7. On the "COM Properties" screen, click "OK". A connection is 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
```