IBM LCD Uninterruptible Power Supplies (UPS)
Machine Types 5395 and 5396

Writing shutdown script files for use with IBM UPS Manager

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Limitations

- IBM does not guarantee that shutting down VMware servers with the VMware vCenter Server software running on a Windows platform works. It is assumed that if the software is running on Windows only that the likelihood that it works is high
- Shutdown for VMWare is not supported. For details refer to Retain tip H203515 "UPS shut down support for VMware 4.1 - IBM LCD Tower, Rack UPS" in support document MIGR-5088501
- Shutdown scripts are executed immediately after the selected UPS event occurs. A delayed execution of the script file, e.g. after a few seconds or minutes, is not possible. This is a permanent restriction

Information

- A shutdown script file is a batch file that has to be written for a specific target operating system OS
- It is therefore important that the script file complies to the syntax rules of that specific target OS
- There are currently no known limitations on commands that can be used in the script file nor are there any limitations what applications can be executed
- It is strongly recommended to first write and test the script file before it is tied into the IBM UPS Manager software

Windows script file

1. Ensure that the IBM UPS Manager software is communicating with the UPS either via

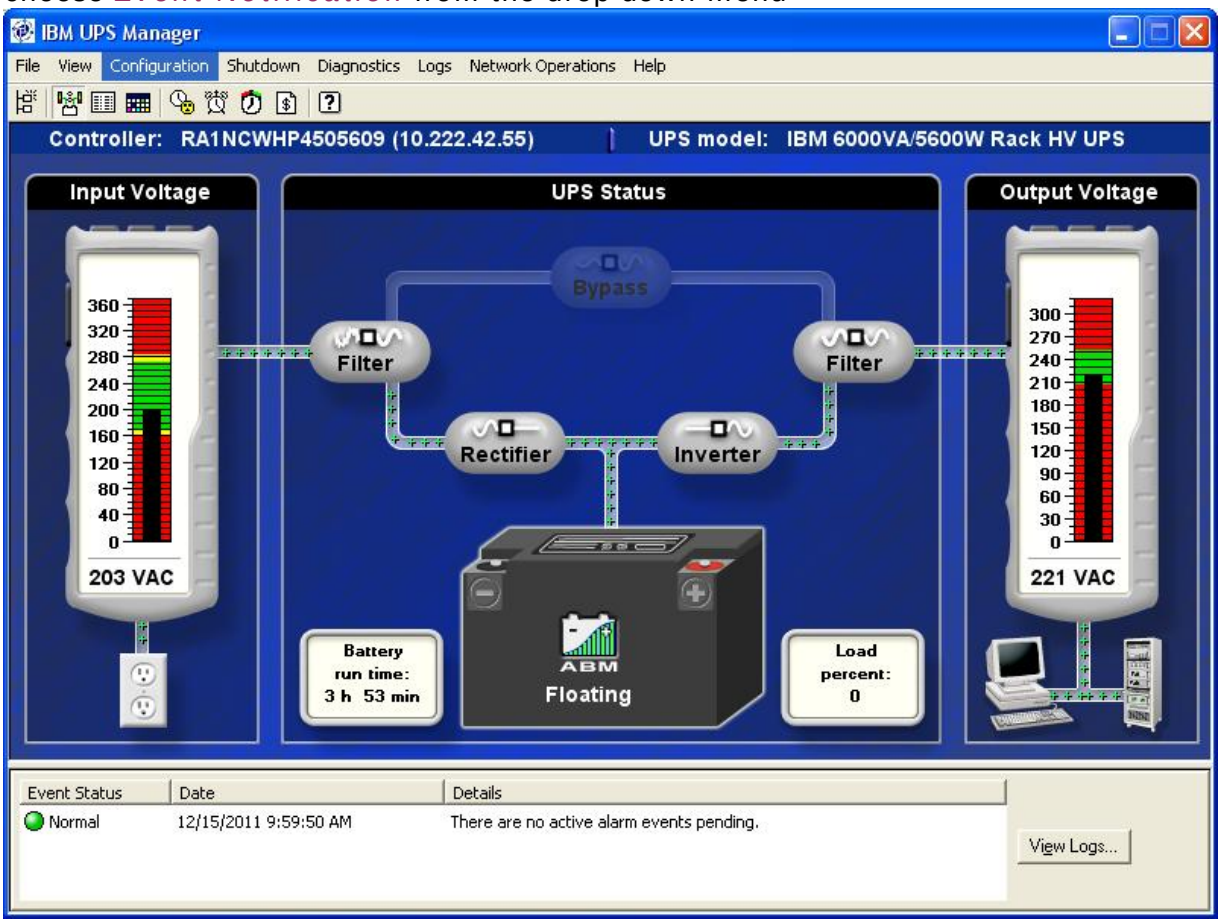
   - Network Management Card (NMC)
   - RS-232 serial port
   - USB port

   Ensure that only one communication path at any time is used. Multiple communication paths to the UPS - e.g. USB port and NMC are not supported and will not work

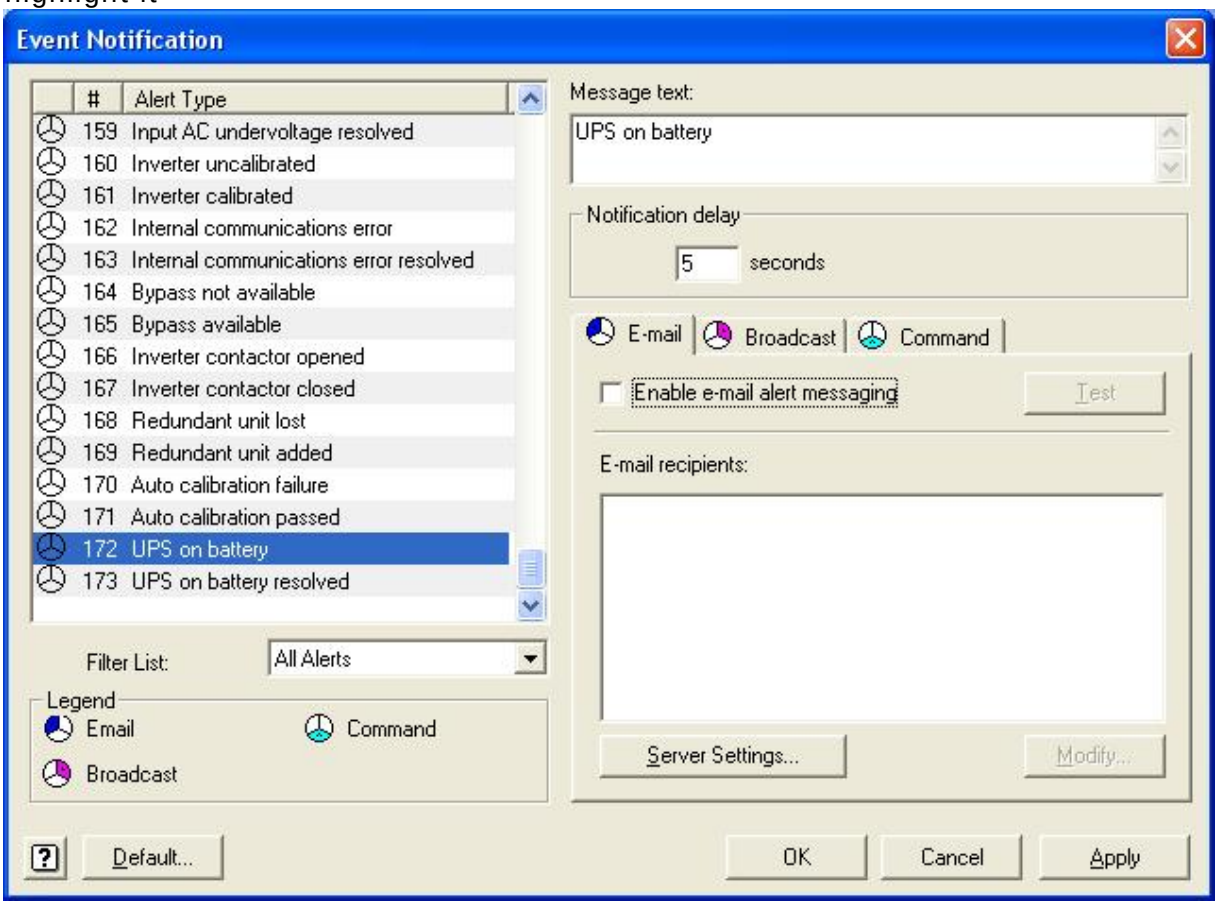
2. Write the script file for the target OS

3. Test the script file to whether it works as such

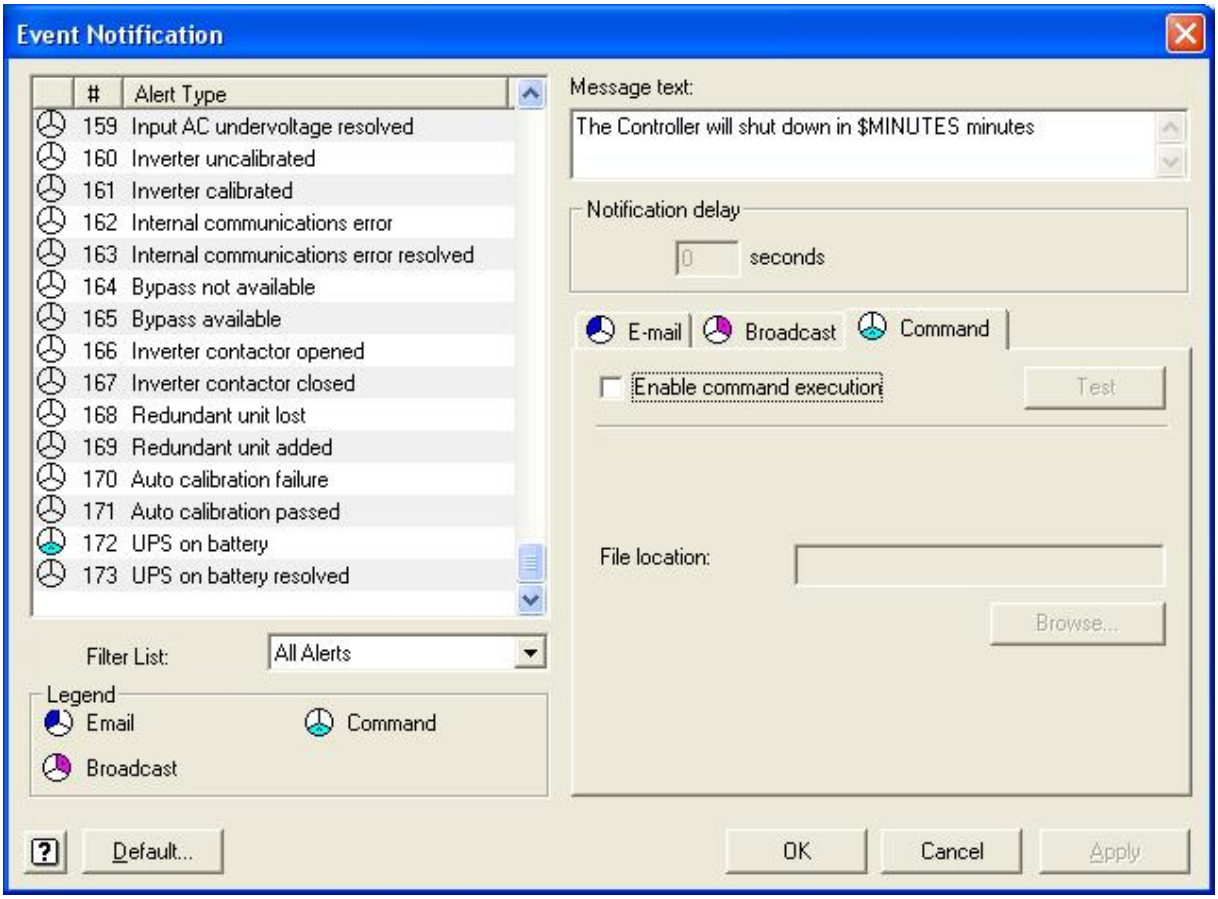
4. In the IBM UPS Manager *Powerscope* view, click on the *Configuration* button and choose *Event Notification* from the drop down menu



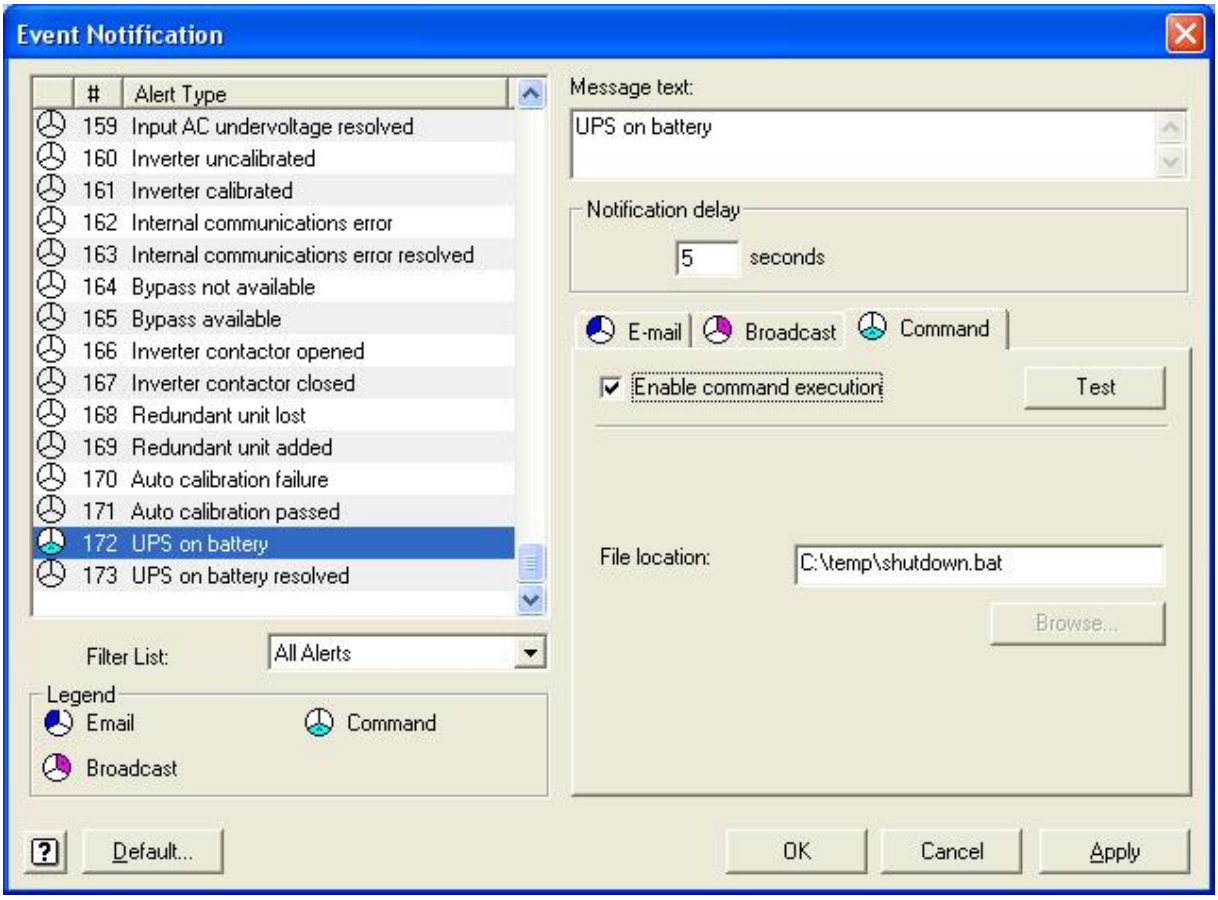
5. In the *Event Notification* window scroll down alert type on the left side of the window until the desired event ID comes up, e.g. "172 UPS on battery" and highlight it



6. Click on the *Command* tab



7. Tick the box left to *Enable command* execution and enter the path to the script file



8. After entering the file location the *Test* button will become available. Do not click this button yet. Instead click on the *Apply* button

9. Now either click on the Test button or cause the selected alarm to be generated by the UPS to force the file to run as it normally would.

10. Choose *OK* to close out of this window

Linux script file

Configuring Event Notification commands for a Linux Power Monitor requires more specific configuration than for Windows.

The IBM UPS Manager software must be installed with root privileges.

On a Linux system, the following rules apply for executing a file:

- When specifying the path to an executable file, you may use either an absolute path (for example, "/usr/IBM/IBMUPSManager/Bin/executableName.sh") or a relative path (for example, "./executableName.sh")
- When specifying a relative path, IBM UPS Manager looks for the specified file beginning in the Bin directory of the IBM UPS Manager install directory. For example, if IBM UPS Manager is installed in the default location and the executable file is specified as "./executableName.sh", IBM UPS Manager looks for the file at "/usr/IBM/IBMUPSManager/Bin/executableName.sh"
- The file must be executable
- The file must have the proper execution permissions. This means it must have the same permissions as the IBM UPS Manager software
- On a Linux system, the following rules apply for executing a command:
- Both standard and custom Linux commands can be executed
- Commands must be found in the path for root since IBM UPS Manager is installed as a root process

1. Ensure that the IBM UPS Manager software is communicating to the UPS either via

    - Network Management Card (NMC)
    - RS-232 serial port
    - USB port

2. Ensure that only one communication path at any time is used. Multiple communication paths to the UPS - e.g. USB port and NMC are not supported and will not work

3. Write the script file for the target OS

4. Test the script file to whether it works as such

5. Follow the above advices