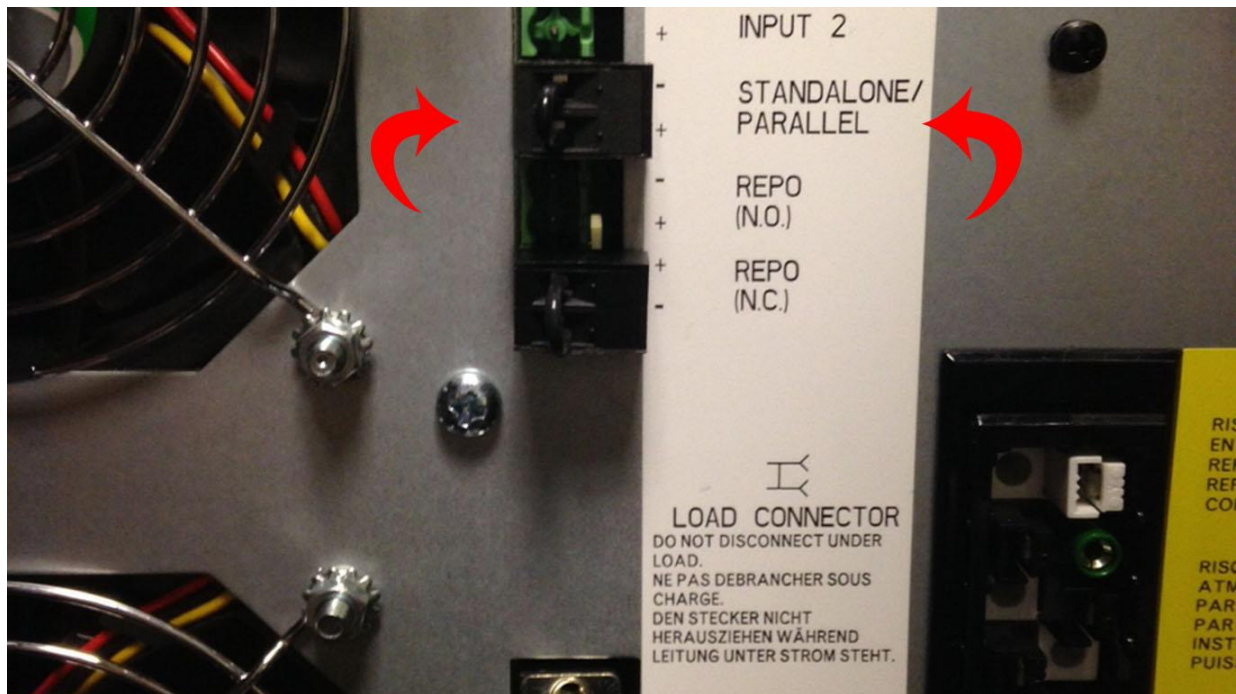


Instructions for Upgrading BladeUPS Firmware

All Blade UPS in a parallel system must have the same version of firmware. If installing a new UPS module into an existing system, which has a different firmware level, the new UPS will alarm “Software Incompatibility”. Therefore, older systems will need to be upgraded to the most recent firmware version, or the new module can have its firmware reversed to the older version. Upgrades to v2.xx firmware in parallel systems that have older v1.xx firmware, will require securing the load on Bypass until the upgrade of all UPSs can be completed.

1. The most current firmware upgrade can be downloaded from the [Eaton](http://powerquality.eaton.com/Support/Software-Drivers/default.asp) website <http://powerquality.eaton.com/Support/Software-Drivers/default.asp>. When upgrading firmware please select the language pack required based on Table 1, on the last page of this document. At the time of shipment, firmware was also included on an enclosed CD. When adding a new module to an existing system, the firmware of the existing systems may have to be upgraded to avoid software conflicts, which may jeopardize system operation.
2. The firmware upgrade is provided in the form of an executable file that will attempt to connect to the UPS and upgrade the firmware. The file can also be unzipped into a directory if the default communications configuration does not work.

Note: If the unit being upgraded is a standalone unit or a single parallel ready unit a jumper must be installed in the Stand alone/Parallel spot in the back of the UPS. This will prevent load loss while flashing the unit.



Instructions for Upgrading BladeUPS Firmware

3. Ensure the UPS is powered and in one of the following states: HE mode (High Efficiency), internal bypass mode or UPS off mode (power applied). The UPS can also be bypassed via a mechanical maintenance bypass if one is installed for the UPS. Note: All modules in a parallel system must be upgraded to the same firmware version in order for the system to operate properly. Failure to upgrade firmware on all modules will result in systems reporting “software incompatibility”.
4. If other devices such as the Powerware Hot Sync parallel card is a lower revision firmware, this is also a good time to upgrade that firmware.
5. Ensure there is a serial communication cable connected between the computer serial DB-9 COM1 and the BladeUPS service serial port (labeled DB-9 Communication Port). The BladeUPS service DB-9 port shares communications with the card slot labeled “X-Slot Communication Bay 1”, so it is recommended that during firmware upgrades any intelligent cards in that X-slot bay be shut down and pulled out partially as to not interfere in the firmware upgrade process. If your PC doesn’t support COM1 then follow the instructions for batch file upgrades. Also, ensure that no other applications are using COM1. If your PC does not have a DB-9 serial port, a USB to serial converter cable is available, so Eaton Customers may request a free USB-to-serial adapter cable at: <http://powerquality.eaton.com/Support/Software-Drivers/Downloads/bladeups-firmware.asp>. Registration is required before being able to access the link. Once Registered the link is located at the bottom of the Firmware Main page. Double click the executable file from Windows Explorer to start the upgrade. If the flash process fails, restart the program by double clicking the executable file again. Figure 1 represents the dialog box presented when the program is run. Select the OK button. Figure 2 represents the dialog that reminds you that parallel systems must all have the same firmware version. Select the Setup button.
6. When the upgrade is complete, (typically 5 to 8 minutes per UPS) the UPS will return back to the mode that it was in when the firmware update was started so either on internal bypass, HE mode, or in a UPS off state. Each module in a system will take approximately 60 to 90 seconds to return to HE (normal) operation after giving the “success” message, and closing the upgrade window after the firmware upgrade is complete. Upgrade the remaining modules by repeating steps five (5) and six (6).

Note: After all modules have been completely upgraded, command the system back to normal if it was placed in another mode during the upgrade procedure.

Instructions for Upgrading BladeUPS Firmware

Procedure (*batch file upgrade*):

1. Unzip the upgrade file (executable) into a temporary folder on the PC if it has not already been done.
2. Ensure there is a serial communication cable connected between the computer port and the BladeUPS service serial port (labeled DB-9 Communication Port). The BladeUPS service DB-9 port shares communications with the card slot labeled “X-Slot Communication Bay 1”, so it is recommended that during firmware upgrades any intelligent cards in that X-slot bay be shut down and pulled out partially as to not interfere in the firmware upgrade process. Select the appropriate batch file (COM1 up to COM8). The batch file may also be edited to the appropriate COM port the PC will using. The COM setting is in the last line of the batch file.
3. Ensure the UPS is powered and in one of the following states: HE mode (High Efficiency), internal bypass mode or UPS off mode (power applied). The UPS can also be bypassed via a mechanical maintenance bypass if one is installed for the UPS. Note: All modules in a parallel system must be upgraded to the same firmware version in order for the system to operate properly. Failure to upgrade firmware on all modules will result in systems reporting “software incompatibility”.
4. Run the batch file from the windows/run dialog or a command line window to start the upgrade. If the flash process fails, restart the upgrade by running the batch file again. Figure 4 represents the command window during the upgrade; after the upgrade is complete the window will close.
5. When the upgrade is complete, (typically 5 to 8 minutes per UPS) the UPS will return back to the mode that it was in when the firmware update was started so either on internal bypass, HE mode, or in a UPS off state. Each module in a system will take approximately 60 to 90 seconds to return to HE (normal) operation after giving the “success” message, and closing the upgrade window after the firmware upgrade is complete. Upgrade the remaining modules by repeating steps four (4) and five (5).

Note: After all modules have been completely upgraded, command the system back to normal if it was placed in another mode during the upgrade procedure.

Instructions for Upgrading BladeUPS Firmware

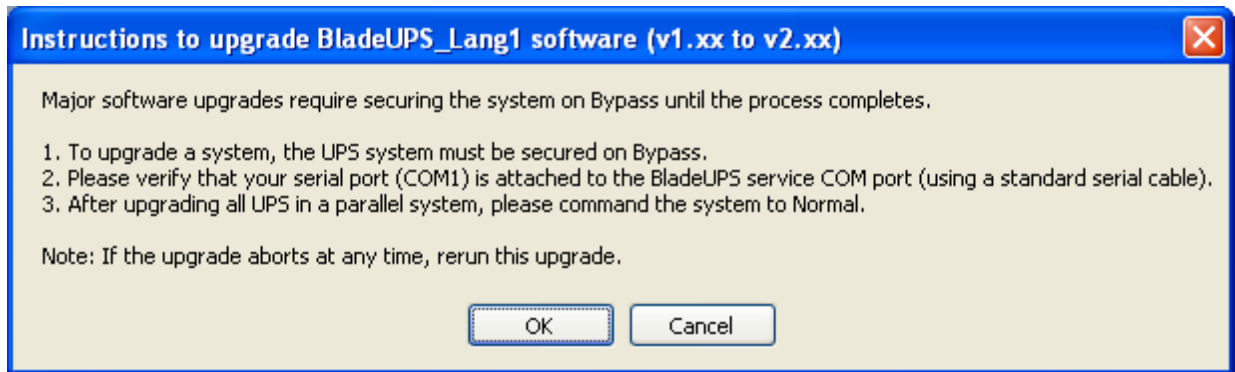


Figure 1 (Instructions Dialog Box Example)

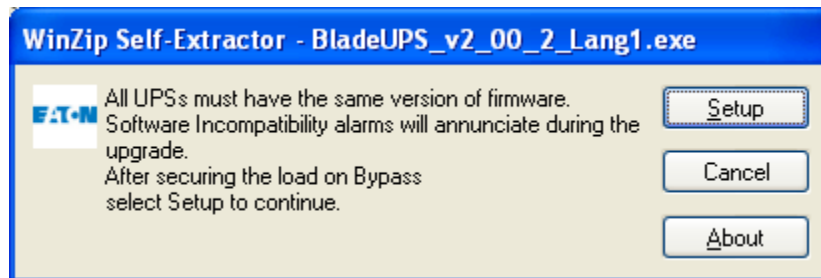


Figure 2 (Start upgrade Dialog Box Example)

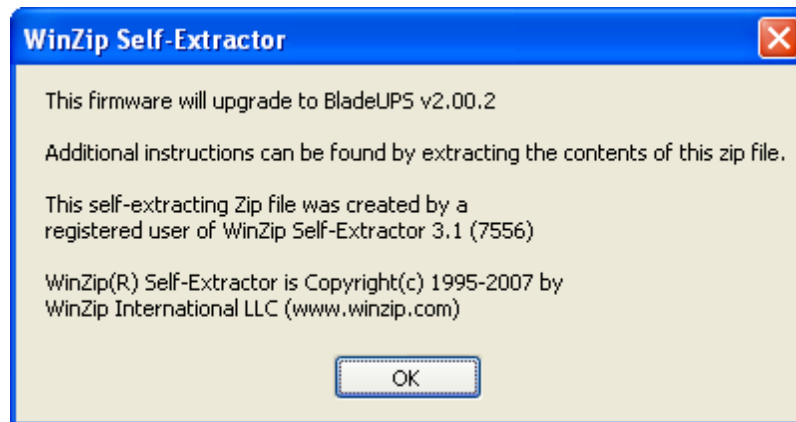
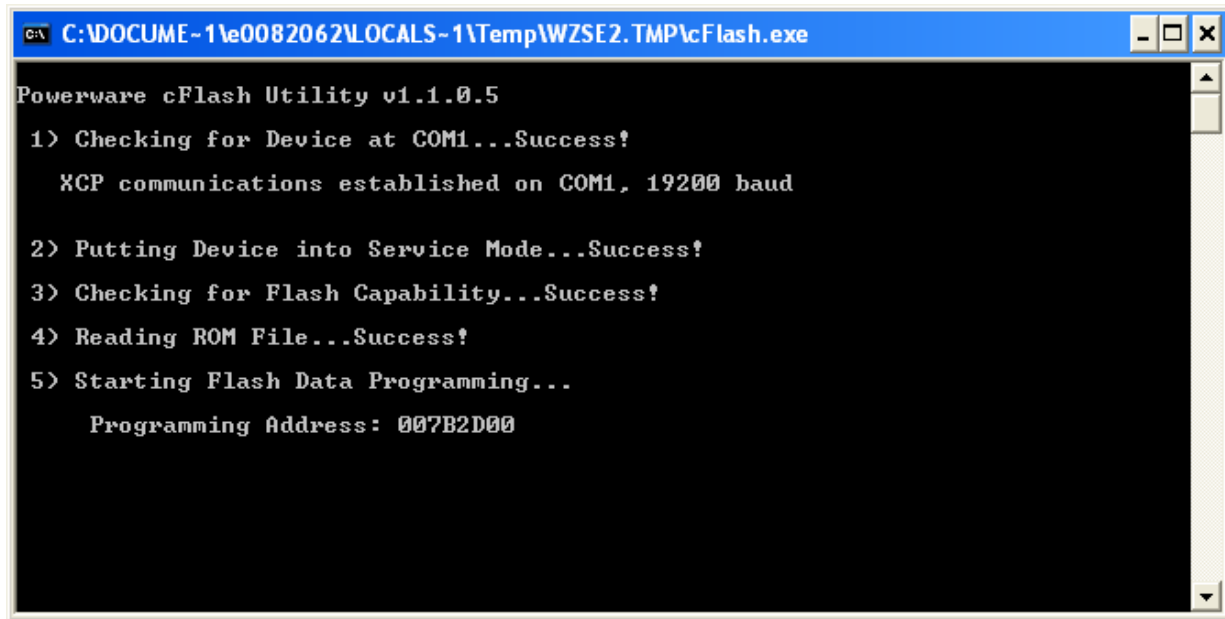


Figure 3 (About) Dialog Box Example

Instructions for Upgrading BladeUPS Firmware



```
C:\DOCUME~1\0082062\LOCALS~1\Temp\WZSE2.TMP\cFlash.exe

Powerware cFlash Utility v1.1.0.5

1> Checking for Device at COM1...Success!
    XCP communications established on COM1, 19200 baud

2> Putting Device into Service Mode...Success!
3> Checking for Flash Capability...Success!
4> Reading ROM File...Success!
5> Starting Flash Data Programming...
    Programming Address: 007B2D00
```

Figure 4 (Batch File upgrade, window closes when complete) Example

Release Notes For BladeUPS Version 2.12.6000:

This version is a customer specific release that will support LV and HV models.

Language Pack 1	Language Pack 2	Language Pack 3	Language Pack 4	Language Pack 5	Language Pack 6
English	English	English	English	English	English
Spanish	Finnish	Hungarian	Greek	Chinese	Korean
German	Swedish	Romanian	Turkish		
Language Pack 7	Language Pack 8	Language Pack 9	Language Pack 10	Language Pack 11	Language Pack 12
English	English	English	English	English	English
Czech	Italian	Russian	French	Portuguese	Norwegian
Polish	Bulgarian				Italian

Table 1