



## **J2 Wave OS Update**

### **Instructions**

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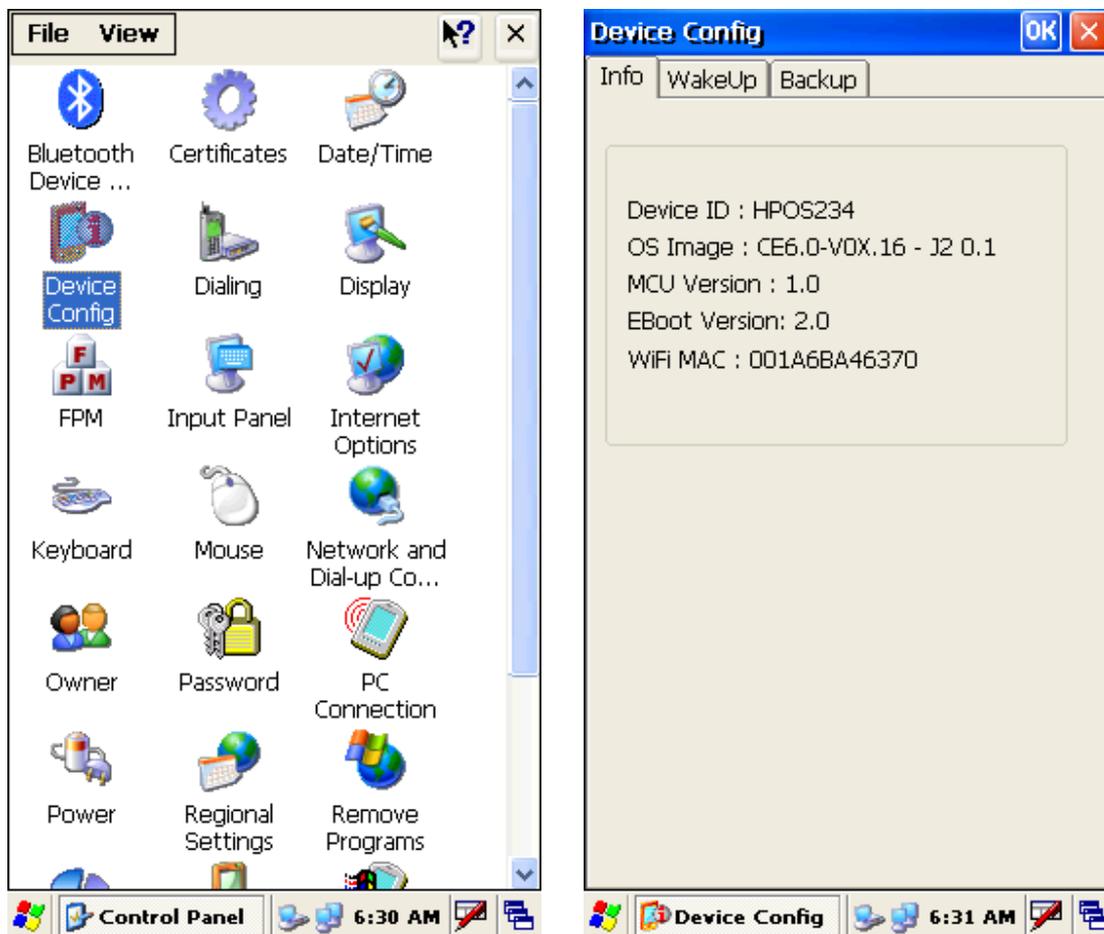
*July 2010*

## Overview

Occasionally it may be necessary to update or reload the operating system of the J2 Wave hand held computer as new releases become available. These instructions cover this procedure. J2 will be releasing a new OS update utility at some point that will allow the OS to be reloaded via the wireless network. Please check with J2's tech support on the availability of this software.

## Checking Current Version

The version of the current OS and Utilities installed on the hand held can be determined by running the *Device Config* utility in Control Panel as shown below.



The OS Image line shows the current OS image version either CE5.0 or CE6.0 and V11 for Core and V01 for Core, the next two digits the OS version, and the last two digits the utilities version (GHARST). Any “X” in the version code shows “Experimental”.

## Prerequisites

In order to update the OS a 2GB SD Flash Memory Card or smaller memory card will be required. The SD card can be smaller than 2GB but must be at least 128MB in size. It is assumed that the user of this document has read or has available the J2 Wave Hardware Manual. **Important:** Insure that the *J2 System Suspend* feature is set to a value greater than thirty or turned off by setting the *System Suspend in Minutes* value to zero using the J2 Setup program. This update process will erase any data or programs on the hand held computer so be sure to make a back up if required.

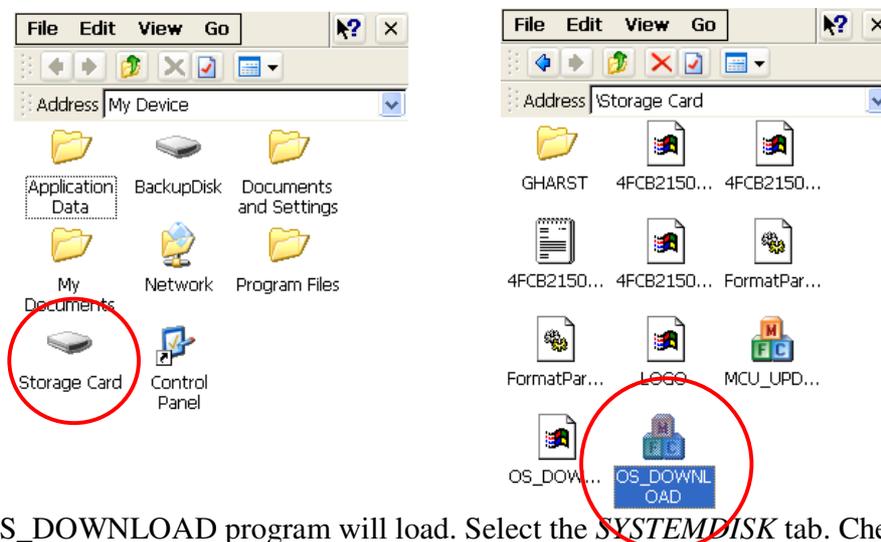
## Procedure

1: Unzip the OS file to the root SD card. The SD card should be formatted as FAT or FAT32.

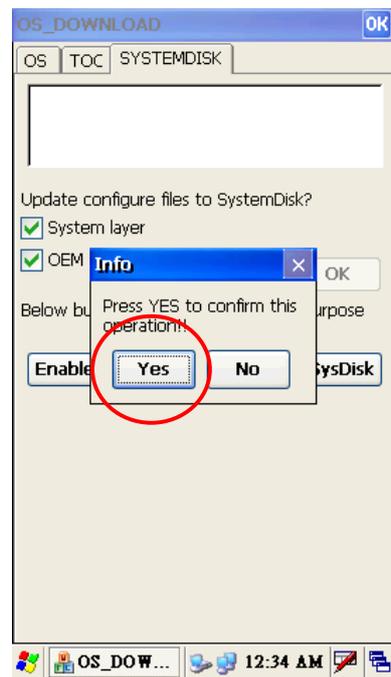
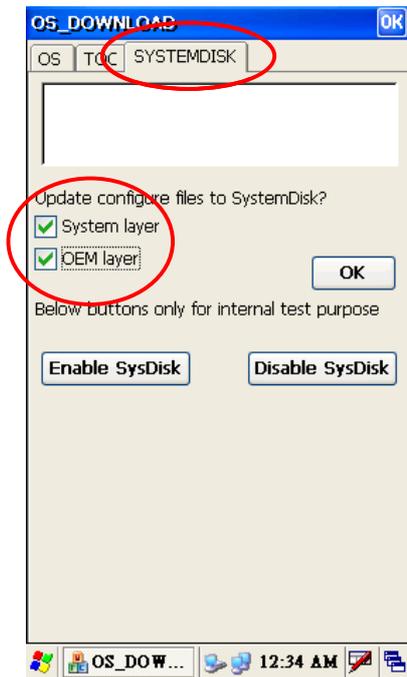
2: With the hand held units battery fully charged and the system booted up and running CE remove the battery and install the SD card in its slot. Reinstall the battery immediately and turn the system on.

*Note: It is important in this step to not have the system battery remove for more than a minute or two as the system will power down which will not work with this procedure.*

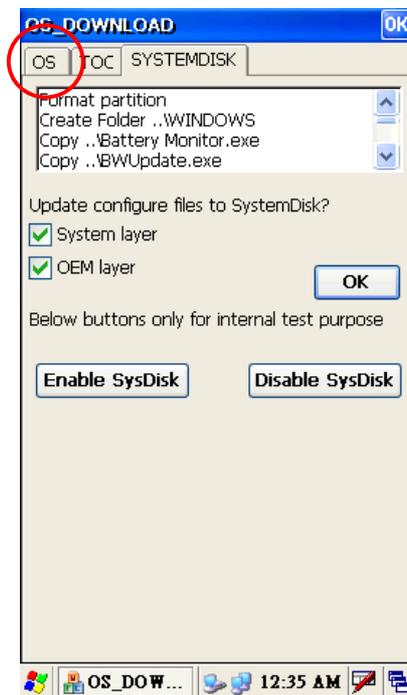
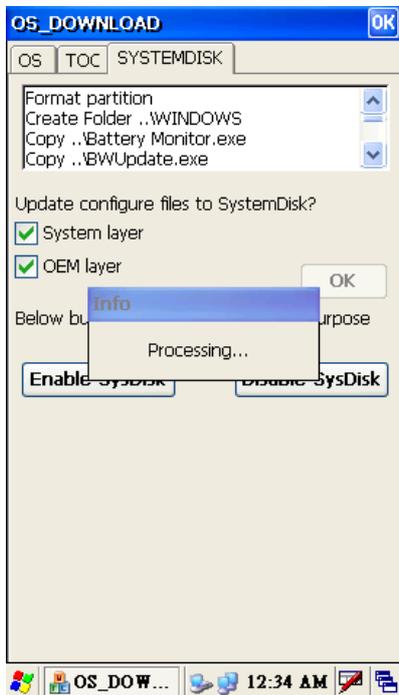
3: You will now be able to see that a new storage device, *Storage Card*, is available under *My Device* as shown below. Click on *the Storage Card* icon and then select and run OS\_DOWNLOAD by double clicking the icon.



4: The OS\_DOWNLOAD program will load. Select the **SYSTEMDISK** tab. Check the *System layer* and *OEM layer* check boxes as shown then click OK. When the confirm Info box appears click yes.

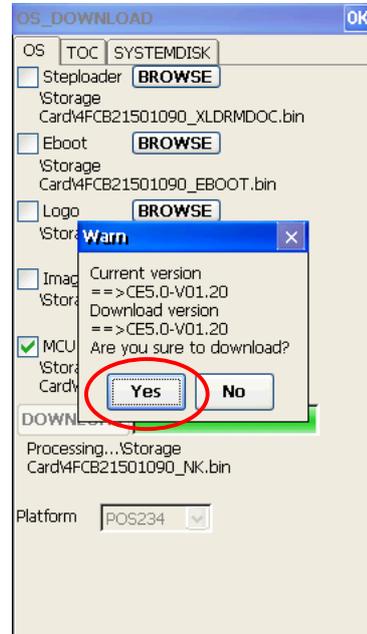


The OS\_DOWNLOAD program will now copy the files from the SD card to the handheld's flash drive. When complete click the OS tab as shown.

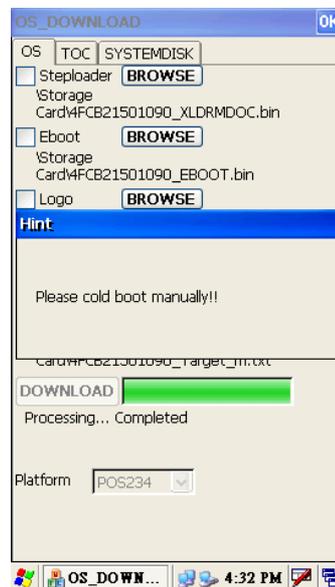
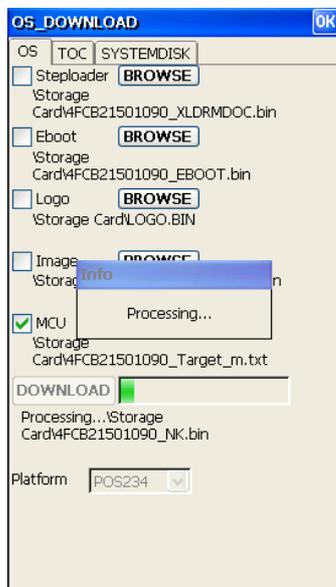


5: At the OS tab of the OS\_DOWNLOAD program. All the required boxes will already be checked (some may not be depending on what is being updated). To start the OS download click the DOWNLOAD button as shown. The program will now start updating.

When the program gets to the Image section it will ask “Are you sure to download”. Click Yes.



6: The OS\_DOWNLOAD program will now copy the OS image to the hand held's flash memory. This will take some time, 9 to 12 minutes. During this time do not turn off the unit. When complete the message “Please cold boot manually!!” will be displayed.



7: After the message “Please cold boot manually!!” is displayed remove the battery from the unit so you can remove the SD card. Remove the SD card. No need to hurry here, it is OK if the unit turns itself off.

8: The unit will now have to be cold booted. To cold boot the unit, first reinstall the battery. **Important: do not leave the SD card in the unit.** After the battery is installed turn on the unit while depressing the OFF/ON button depress the hardware reset button using a paper clip or other tool. This will cause a cold boot. You should feel the vibrator run for a second.

*OFF/ON Button*



*Hardware Reset Button hole*

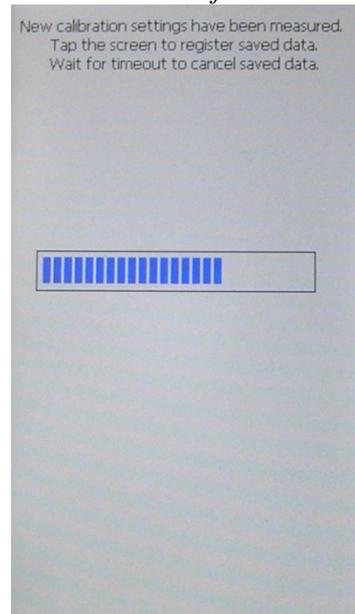


9: The units will immediately display the touch screen calibration program. If it does not, try to cold boot the unit again. At the calibration screen use the stylus to calibrate. When done the five point calibration the screen will ask to confirm the calibration by tapping the screen.

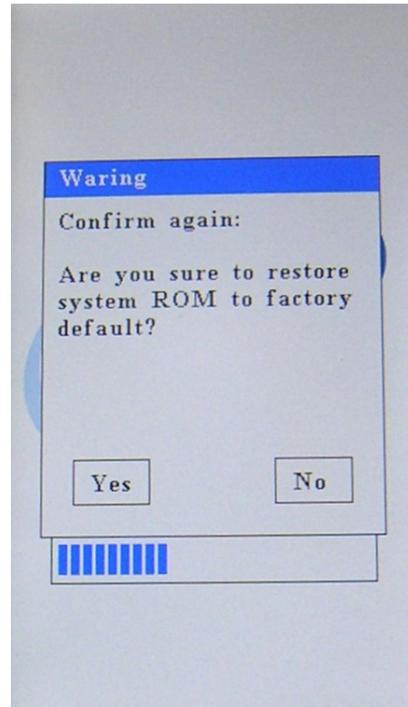
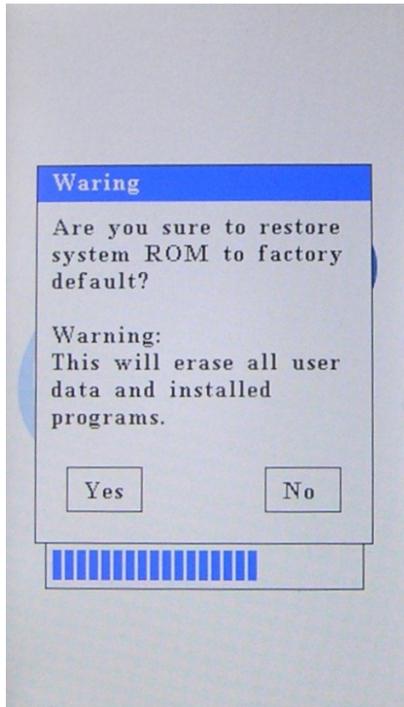
*Five Point Calibration Screen*



*Calibration Confirmation Screen*



10. The system will now ask you if you are sure you wish to restore the system ROM to the factory defaults, click yes. It will ask you to confirm again, click yes. The system will now boot CE. This will take ten to twenty seconds.



11: The system will now boot with the updated CE OS with the system restored to factory defaults.

### **Only Updating System and OEM Configuration (GHARST only)**

Something the Operating System itself does not need to be updated only the System and OEM configuration called GHARST. This may be to update the system utilities or change a registry setting permanently. To do this the procedure is the same as above but steps 5 and 6 are skipped. After Step 4 is complete just go to step 7.