

# J2 Wave OS Update

## Instructions



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".

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#### **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 then 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 <u>fully charged</u> 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.

File Edit	View Go		×	F	ile Edit	View	Go	]	<b>\?</b>	×
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Address M	y Device		~		Address 🕅	Storage (	Iard			~
$\triangleright$	9	$\triangleright$			$\triangleright$	1				
Application Data	BackupDisk	Documents and Settings		(	GHARST	4FCB21	.50	4FCB2150		
$\triangleright$	2	$\triangleright$				1	Ì	<b>*</b>		
My	Network	Program Files		4F	CB2150	4FCB21	.50	FormatPar		
Storage Card	Control			Fo	rmatPar			RCU_UPD		
	Panel			09	5_DOW		WNL D			

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

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OS_DOWNLOAD	OS_DOWNLOAD
	OS TOC SYSTEMDISK
Update configure files to SystemDisk?	Update configure files to SystemDisk?
System layer	System layer
○EM layer     OK	
Below buttons only for internal test purpose	Below bu Press YES to confirm this prose
Enable SysDisk Disable SysDisk	Enable Yes No ysDisk
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The OS\_DOWNLOAD program will now copy the files from the SD card to the hand held's flash drive. When complete click the OS tab as shown.

OS TOC SYSTEMDISK     Format partition   Create Folder   Copy   Copy   WiNDOWS   Copy   WWUpdate.exe      Update configure files to SystemDisk?    Vpdate configure files to SystemDisk?   System layer   OEM layer   OK   Below bu   Processing   Enable   System   Enable   System   Copy   System   System   OEM layer   OK   Below bu   Processing   Enable   System   System   System   System   System layer            OK  Below buttons only for internal test purpose Processing  Enable Systems Disable SysDisk  Disable SysDisk	OS_DOWNLOAD OK	CO_DOWNLOAD
Create FolderWINDOWS         CopyBattery Monitor.exe         CopyBWUpdate.exe         Update configure files to SystemDisk?         ✓ System layer         ✓ OEM layer         ØCM layer         ØK         Below bu         Processing         Enable oyoorx         Ørade System         ØSystem layer         ØK         Below bu         Processing         Enable oyoorx         Ørade System         ØSystem layer         ØK         Below bu         Processing         Enable oyoorx         Ørade System         Ørade System <td></td> <td></td>		
Update configure files to SystemDisk? System layer OEM layer OK Below buttons only for internal test purpose Processing Enable SysDisk Disable SysDis Disable SysDis	Create FolderWINDOWS CopyVBattery Monitor.exe CopyVBWUpdate.exe	Create FolderWINDOWS CopyBattery Monitor.exe CopyBWUpdate.exe
✓ OEM layer       OK         Below buttons only for internal test purpose       Processing         Enable system       Disable SysDisk	Update configure files to SystemDisk?  System layer	Update configure files to SystemDisk?
Below bu Processing Enable system SysDisk Enable SysDisk Disable SysDisk D	✓ OEM layer OK	OEM layer
Enable SysDisk Disable SysDisk Disable SysDisk	Processing	Below buttons only for internal test purpose
	Enabl <del>e зузотя ставос Sy</del> sDisk	Enable SysDisk Disable SysDisk

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 down load click the DOWNLOAD button as shown. The program will now start updating.

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

OS_DOWNLOAD	OS_DOWNLOAD	0
OS TOC SYSTEMDISK Steploader BROWSE Vstorage CardV4FCB21501090_XLDRMDOC.bin Eboot BROWSE Vstorage CardV4FCB21501090_EBOOT.bin Logo BRCIWSE Vstorage CardVLOGO.BIN Image BROWSE Vstorage CardV4FCB21501090_NK.bin MCU BROWSE Vstorage CardV4FCB21501090_Target_m.txt DOWNLOAD Platform POS234	OS TOC SYSTEMDISK Steploader BROWSE Vstorage CardV4FCB21501090_XLDRMDOC.bin Eboot BROWSE Vstorage CardV4FCB21501090_EBOOT.bin Logo BROWSE Vstora Vstora Current version ==>CE5.0-V01.20 Download version ==>CE5.0-V01.20 Vstora Vstora Vstora Vstora Vstora ProcessingVstorage CardV4FCB21501090_KK.bin Platform POS234	

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.

OS_DOWNLOAD OK	OS_DOWNLOAD
OS TOC SYSTEMDISK Steploader BROWSE Storage Cardl4FCB21501090_XLDRMDOC.bin Eboot BROWSE Storage Cardl4FCB21501090_EBOOT.bin Logo BROWSE	OS TOC SYSTEMDISK Steploader BROWSE (Storage Card/4FCB21501090_XLDRMDOC.bin Eboot BROWSE (Storage Card/4FCB21501090_EBOOT.bin Logo BROWSE
\Storage Card\LOGO.BIN	Hint
MCU Processing	Please cold boot manually!!
Card/4FCB21501090_Target_m.txt	
DOWNLOAD	DOWNLOAD
Processing\Storage Card\4FCB21501090_NK.bin	Processing Completed
Platform POS234	Platform POS234
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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.



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.



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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.

Waring	Waring
Are you sure to restore system ROM to factory default? Warning: This will erase all user data and installed programs.	Confirm again: Are you sure to restore system ROM to factory default?
Yes No	Yes No

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.