

Updating ESRI ArcPad on the MMCE

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A. Uninstall the old version of ArcPad from your PC

1. Launch the version of ArcPad 7 that you currently have on your PC.
2. Click the down arrow next to the question mark (?) icon on the top right.
3. Click **About ArcPad** and write down the ArcPad registration number that appears under the **Version** tab. If you are updating from one version of ArcPad 7.x to another, you may use this number as the registration number of the updated version. However, ArcPad 6 registration numbers will not enable ArcPad 7. So if you are upgrading from ArcPad 6 to ArcPad 7, you will need to purchase a copy of the most recent version of ArcPad 7 from ESRI.
4. Exit ArcPad on your PC.
5. If you are uninstalling ArcPad version 6.x, use Windows Explore to go to your PC's /Windows/Fonts/ folder and delete all files beginning with ESRI.
6. Click **Start > Control Panel > Add/Remove Programs**.
7. Highlight the older version of ESRI ArcPad, click the **Remove** button, and follow the instructions for removing ArcPad from your PC.

B. Uninstall the old version of ArcPad from MMCE

1. If you purchased only one copy of ArcPad 7, you may use the same ArcPad 7 registration number in your MMCE. If you have multiple MMCE units, you will need to write down the registration number of each copy of ArcPad before uninstalling the application from each receiver. You will need this number as the registration number of the updated version. To find the registration number, do the following:
 - a. Launch the current version of ArcPad 7 on your MMCE.
 - b. Click the down arrow next to the question mark (?) icon on the far right of the main tool bar.
 - c. Click **About ArcPad** and write down the ArcPad registration number that appears under the **Version** tab. You may use the registration number from any version of ArcPad 7 to activate any other version of ArcPad 7. But an ArcPad 6.x registration number will not work in ArcPad 7.x and you will have to purchase a copy of the latest version of ArcPad from an ESRI dealer.
2. Exit ArcPad on your MMCE.

3. If you have been using the *GPSDifferential for ArcPad* application, after reinstalling ArcPad you may (depending on which MMCE operating system you have installed) have to reinstall the three extension files and the activation code file that comprise the GPSDifferential product. To do this, copy the three extension files to your SD card. These four files are located in the following MMCE directories:
 - a. **PostProc.apa** in /MyDevice/Program Files/ArcPad/Applets
 - b. **PostProc.vbs** in /MyDevice/Program Files/ArcPad/Applets
 - c. **PostProc.dll** in /MyDevice/Program Files/ArcPad/Extensions
 - d. **mmppcode** in /MyDevice

Note: A new version of PostProc.dll was released on 2 February 2007. You may download it from the /Mobile Mapping/MM CE/Software/GPSDifferential for ArcPad/ folder at <ftp:magellangps.com>.
4. On the MMCE Desktop tap **My Computer**, navigate to the Windows/Fonts folder and delete all the fonts starting with "esri."
5. To remove ArcPad version **6.x** from your MMCE:
 - a. Back up to the SD card or PC all other software applications that you installed on your MMCE.
 - b. On the MMCE, navigate back up to the Windows folder and double-tap RestoreFactorySettings.exe.
 - c. Tap the option to ðRestore factory settings at next bootö
 - d. Tap **OK** on the Restore Factory Settings window
 - e. Tap **Yes** to confirm
 - f. Reboot the MMCE by tapping **Start > Suspend** and with ðFull Shut Down Mode displayed,ö tap **OK**
 - g. When the power LED turns off, turn the unit back on
 - h. Recalibrate the screen and press **ENTER**
 - i. To double battery life, turn off the keyboard backlight (useful only when working at night) by tapping **Start > Control Panel > Backlight Control** and sliding the **Keypad Brightness** tab all the way to the left. Then tap **OK** to exit.
 - j. After restoring the receiver to factory settings you may wish to set the receiver to Daylight Saving Time (tap **Start > Settings > Control Panel > Date/Time**), reset the GPS receiver to use custom settings (tap **Start > Programs > GPS Utilities > GPS Settings > Custom** and set the SNR mask to 20) and then initialize the receiver (tap **Start > Programs > GPS Utilities > GPS Initialization**)
6. To remove ArcPad version **7.x** from your MMCE:
 - a. Tap **Start > Settings > Control Panel > Remove Programs**
 - b. Highlight **ArcPad** and tap **Remove**.
 - c. Tap **Yes** on the **Remove Programs** window asking you if you are sure you want to remove ArcPad.
 - d. Tap **No** on the **Soft Reset?** window.

- e. If you did not successfully remove the fonts, a **Remove Programs error** window comes up telling you that you must remove the fonts. Tap **OK**, repeat Step B4 and then use the method for removing ArcPad 6.x described in Step B5).
 - f. When you see that "ESRI ArcPad 7.0" is removed from the field listing the applications available for removal, tap **OK** in the upper right of the **Remove Programs** screen.
7. Turn off the MMCE by tapping **Start > Suspend > Full Shut Down Mode**. When the power light turns off, turn the MMCE back on.

C. Install the new version of ArcPad on both your PC and MMCE

1. After you install ArcPad on your PC, the installation program will proceed install it on your MMCE. To do this, you will need to have Microsoft ActiveSync® installed on your PC. You may download the latest version of ActiveSync (4.5) for free at <http://www.microsoft.com/downloads/details.aspx?FamilyID=9e641c34-6f7f-404d-a04b-dc09f8141141&DisplayLang=en>.
2. Attach the I/O module to the back of the MMCE receiver.
3. Insert the small connector on the USB cable to the I/O module and the large connector to your PC. If the version of Windows on your PC returns a message saying "USB Device Not Recognized," you may ignore this message.
4. Microsoft ActiveSync will automatically recognize your receiver and will ask if you wish to set up a partnership between your PC and MMCE.

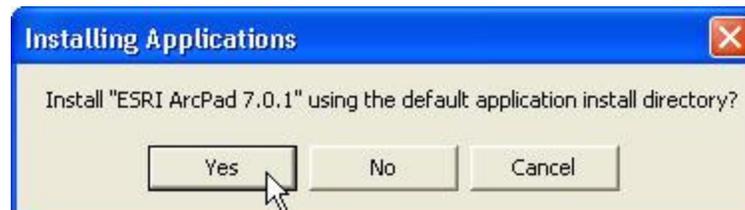


Click **No** (do not establish a partnership) and click **Next** to set up a Guest relationship between your PC and the MMCE. You will see the following screen:



ActiveSync is now running and your PC and MMCE are in communication. This screen will be minimized when you activate any other application.

5. Install the new version of ArcPad on your PC by going to <http://www.esri.com/software/arccgis/arccpad/download.html> and following the instructions.
6. When ArcPad finishes installing on your PC, the installation wizard will ask you if you wish to install ArcPad into a default directory on the MMCE (see below). **Click No.** All applications must be installed into MMCE's MyDevice directory.



7. The installation wizard will now ask you to select a destination directory (called "Destination Media") in which to install ArcPad on the MMCE. The default is "Main Memory," but **do not install any application into Main Memory**. Instead, click the down arrow next to "Main Memory" for more options and select "MyDevice" as shown on the screen below.



8. After highlighting **MyDevice** on the Select Destination Media window, click **OK**.
9. The following message now appears on your PC. Click **OK**.



10. MMCE will display an application installation screen indicating that ESRI ArcPad 7.0.1 will be installed in the `\MyDevice\Program Files\ESRI ArcPad 7.0.1\` folder. You have the option to change the name of the application using the displayed Input Panel, but we recommend you ignore the Input Panel and accept the default name ("Install Here") and location by tapping **OK** at the top right of the screen.
11. When you tap **OK**, a status screen is displayed on top of the MMCE Desktop saying that MMCE is installing ArcPad. When ArcPad finishes installing, the status screen disappears and the ArcPad icon appears on the Desktop.
12. If you have purchased GPSDifferential for ArcPad, copy the following files that you moved to the SD card (in Step B3) into the following folders:
 - a. **PostProc.apa** into `/MyDevice/Program Files/ArcPad/Applets`
 - b. **PostProc.vbs** into `/MyDevice/Program Files/ArcPad/Applets`
 - c. **PostProc.dll** into `/MyDevice/Program Files/ArcPad/Extensions`
 - d. **mmppcode** into `/MyDevice`

Note: A new version of GPSDifferential for ArcPad was released on 1 February 2007. You may download it from the `/Mobile Mapping/MM CE/Software/GPSDifferential for ArcPad/` folder at ftp.magellangps.com.

13. Double-tap the ArcPad icon on the MMCE desktop and using the (automatically displayed) Input Panel to type in your ArcPad registration number that came with your copy of ArcPad. Note: if you previously used ArcPad 6 on the MMCE, the old version's registration number will not work with the new version. If you did not receive a registration number with ArcPad 7, please contact your dealer.
14. After typing in the ArcPad 7 registration number, tap the keyboard icon on the bottom task bar and select "Hide Input Panel."
15. Tap **OK** at the lower left of the ArcPad screen.
16. Tap the down arrow next to the **File** icon at the upper left of the ArcPad screen and exit ArcPad.
17. **OPTIONAL** To install the ESRI HARN (or NADCON) tables on MMCE, on your PC click **Start > All Programs > ArcGIS > ArcPad 7 > Install ArcPad 7.0.1 HARN [NADCON] tables on Windows Mobile.**
18. **OPTIONAL** If you wish to install sample data on MMCE, on your PC click **Start > All Programs > ArcGIS > ArcPad 7 > Install ArcPad 7.0.1 [Elmore, Redlands, World] Sample data on Windows Mobile.**
19. **Once ArcPad has been installed and configured you must restart the MMCE. First close all applications, including ArcPad. Then tap the Start button and select the Suspend option. Tap the down arrow next to the field with "Suspend Mode" in it and select Full Shut Down Mode, and tap the OK button on the bottom left. After a few moments, MMCE will fully shut down. When all LEDs on the front panel have turned off, press the red power button on the keypad to turn it back on.**
20. Remember that before you log GPS positions with the new version of ArcPad, you must configure the program to communicate with the GPS receiver.
 - a. Tap the down arrow next to the GPS satellite icon in the main tool bar
 - b. Tap **GPS Preferences**
 - c. Set **Protocol** to NMEA 0183
 - d. Set **Port** to COM2: GPS NMEA
 - e. Set **Baud** to 57600
 - f. Move to the **GPS Height** tab and set **Antenna Height** to 1.5 (meters) or whatever you believe is the distance between the GPS antenna and the ground when you record data
 - g. Adjust the other tabs to suit your needs
 - h. Click **OK** at the bottom left (closing the Input Panel if need be)

21. When you first activate GPS communications in ArcPad, the GPS receiver sends ArcPad all the NMEA messages it has gathered since it first began tracking satellites. The volume of these NMEA messages can be more than ArcPad can initially handle and a warning window is displayed for a few seconds. This warning is irrelevant and you may tap **OK** to clear it or you may simply ignore it.

22. To upgrade ArcPad on any other MMCE receivers, launch the ArcPad application on your PC and input the registration code. Exit ArcPad, click on your PC's Windows **Start** button and then click **All Programs > ArcGIS > ArcPad 7 > Install ArcPad 7.0.1 Application on Windows Mobile**. Note: you must input the ArcPad registration codes you wrote down in Step B1 into each MMCE receiver you update.