MCP-ACD File Transfer Utility R1.14
User Guide

Introduction

The MCP-ACD File Transfer Utility is provided for use with the MicroCall+ / AC Digital units.

The utility provides 2 functions:

- Ability to upload software and data file updates. This can transfer the main application executable (MCD2.exe) and items like the pipe materials list database (*.fd files).

- Downloading of results files for archival storage and/or for later post-processing using the DigiCALL / AccuCALL software.

Definitions

- Throughout this document the term "Base station" refers to the product "MicroCall+" (international) or "AC Digital" (USA)

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IMPORTANT NOTES

The use of the MCP-ACD File Transfer Utility is simple and self explanatory except for the following important procedure information.

When transferring file updates to the Base Station it is important that the 3x "*.fd" files are transferred to the unit before the "MCD2.exe" is transferred.
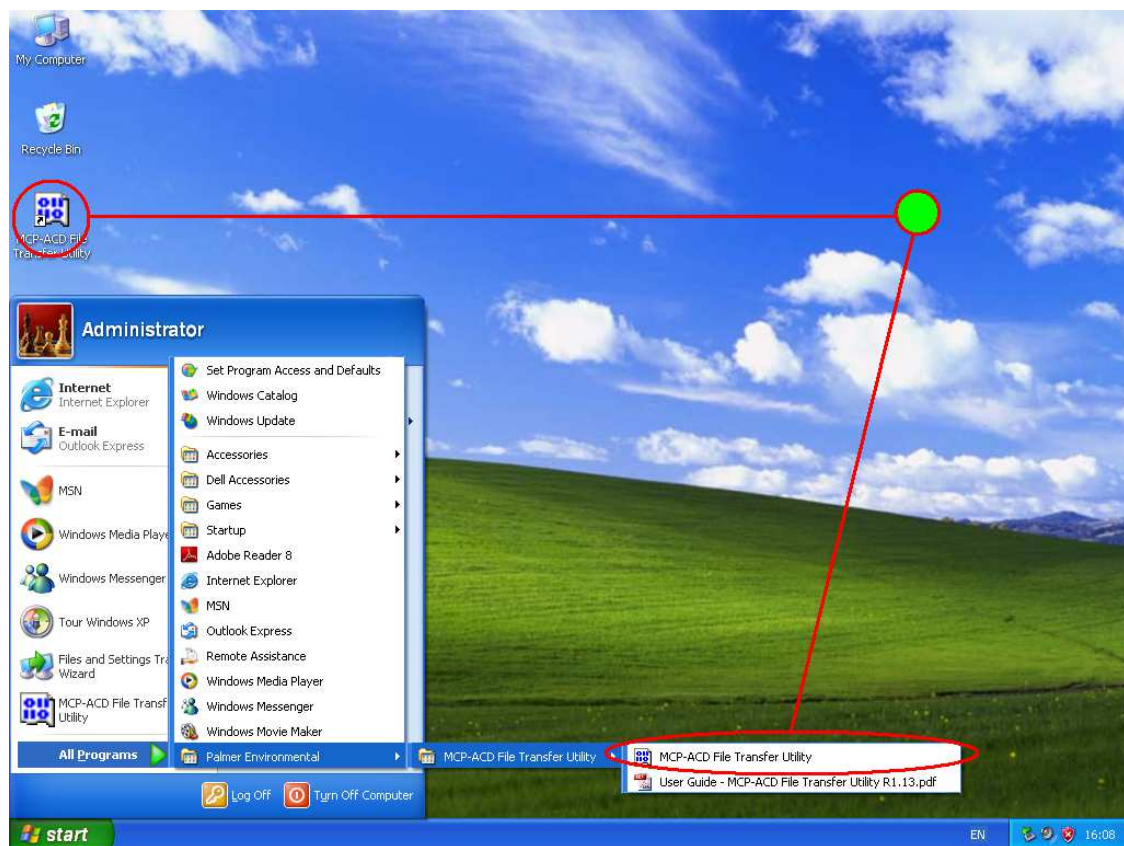
> The 3x "*.fd" files are:
> 1. Filters.fd
> 2. Mlist.fd
> 3. PresetFilters.fd

If these files are not transferred first the Base Station software will become unresponsive.

Starting the MCP-ACD File Transfer Utility

Before starting the application ensure that the Base Station is powered and switched on, and ensure that the serial communication lead is connected between Base Station and an available PC Comm Port.
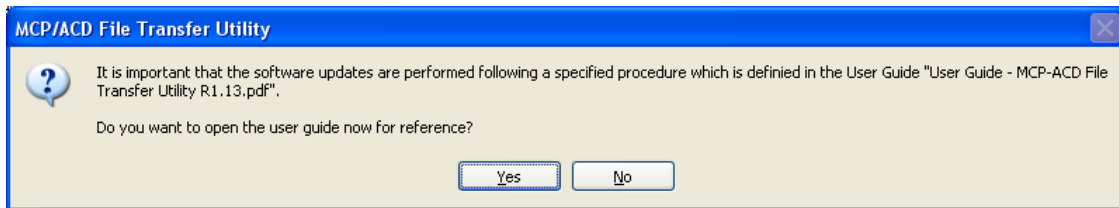
After installation of MCP-ACD File Transfer Utility R1.14 you will find shortcuts on the Desktop and the Start Menu as shown below.
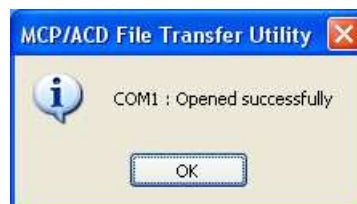

Start the MCP-ACD File Transfer Utility by selecting one of these.

MCP-ACD File Transfer Utility Startup

When the application is started a message is shown to warn the user of the correct software update procedure. The user has the option of opening the user guide (this document) for reference.

When the above message box is closed the application opens the communications port. The default Communication Port used is "Com1:". When the port is opened successfully you will see the following popup.

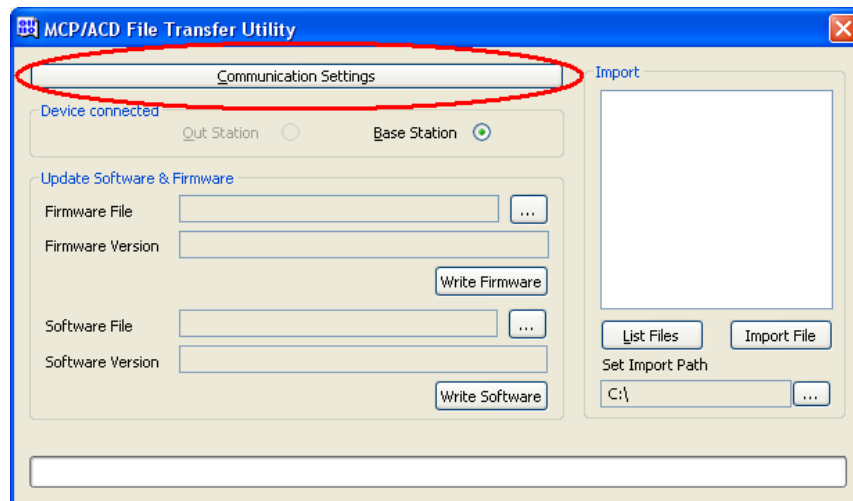However, if the com port opening fails you will see the following popup.

If opening of the com port fails unexpectedly check that there are no other programs running that are using the same com port.
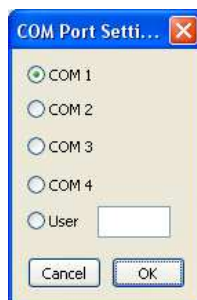
If the default com port (Com1:) is in use you can use another com port as described below.

Communications Configuration

You can select a different com port to use if necessary.

Click the highlighted "Communication Settings" (shown above) and you will see the following screen.

If you are using a com port number other than 1 to 4 you can select "User" and enter the alternative com port (format as "COMx", where 'x' is the com port number) in the text input box next to it. Click "OK" to apply the settings and you will be shown a status window showing the status (successful/unsuccessful) of opening the com port.
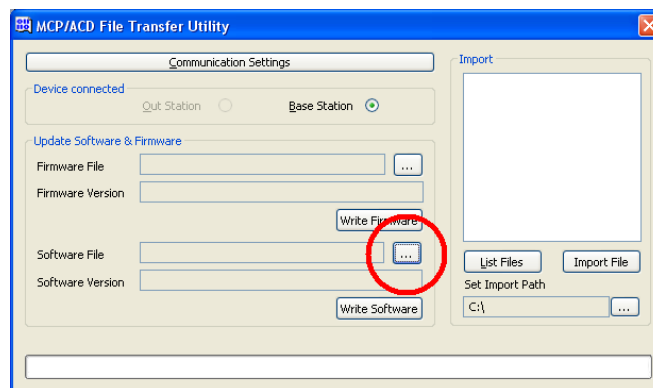
When the com port is successfully opened, you can start to transfer files to/from the Base Station. This is described below.
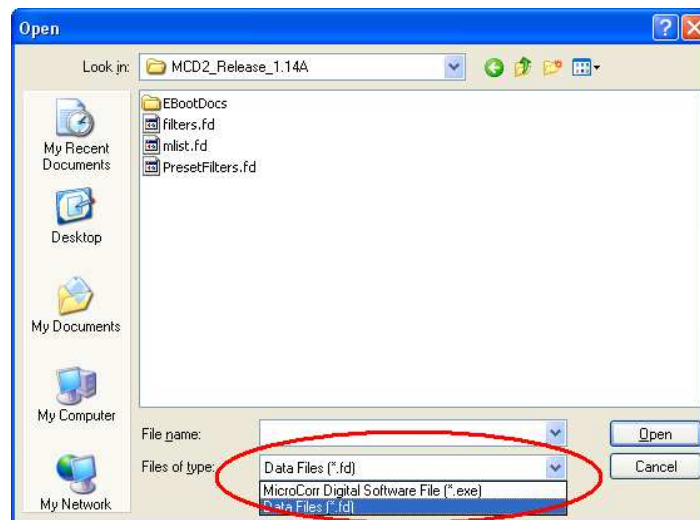
Base Station Software Upgrade Procedure

Note: It is important that the upgrade procedure should be followed in the order shown below.

1. Ensure power is applied to the Base Station and that a serial cable is connected between the Base Station and the PC.
2. Switch on the Base Station.
3. Wait for the Base Station application to boot into the main menu.
4. Press CANCEL multiple times until "You are about to exit the application" is shown.
5. Press ~~~ (between the top and bottom arrow keys).
6. Start the MCP-ACD File Transfer Utility and confirm that com port is opened successfully before proceeding.
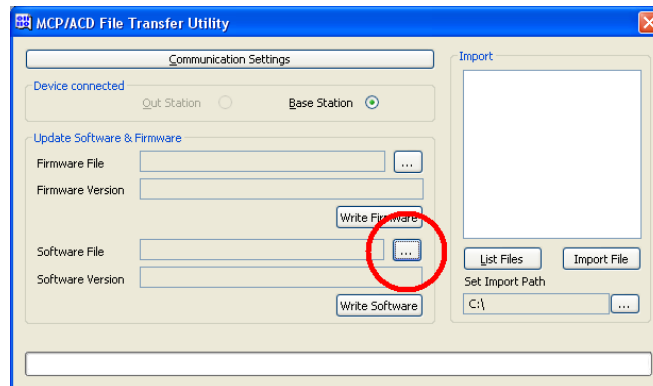7. Click on the three dots button associated with Software File as highlighted below.

8. Navigate to the directory that contains the version you wish to install. For example, `C:\MCD2_x.xxA_English_PE`, where `x.xx` is the version number.
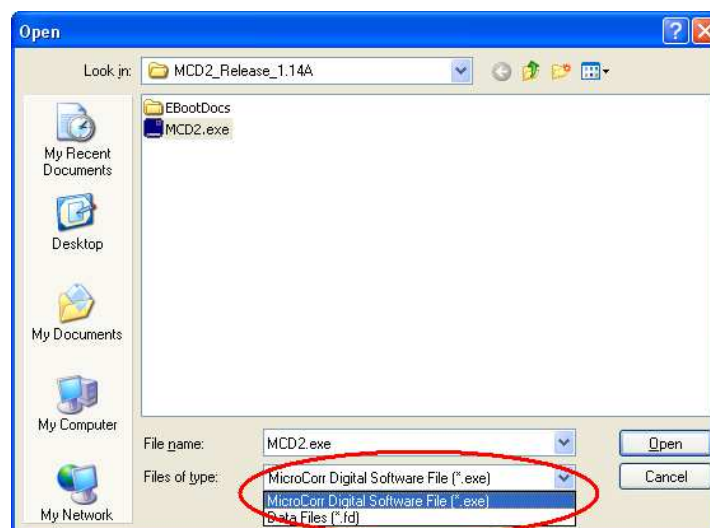9. Select file type "Data Files (*.fd)" as highlighted below.

10. Select `filters.fd` and click Open.
11. Click on Write Software. Check the progress bar shows progress and then clears. The transfer should take a few seconds and on completion you should see the following status popup.

12. Repeat stages 7-11 for the file "`mlist.fd`". Ensure transfer is successful.
13. Repeat stages 7-11 for the file "`PresetFilters.fd`". Ensure transfer is successful.
14. Click on the three dots button associated with Software File as highlighted below.

15. Select EXE as highlighted below.

16. Locate `MCD2.exe` and click Open.
17. Click on Write Software. This stage takes up to approx 50 minutes. Check during this time that the progress bar shows progress and then clears. *Note that sometimes the transfer rate slows considerably. This is normal and full speed will resume. This does not affect the file transmission (corruption of data).*
18. At this point all software should be updated. Verify correct operation by power-cycling the Base Station and wait for the Base Station application to boot into the main menu.
19. If it is desired to use updated velocity information, the default pipe database must be restored. To do so, turn the Base Station on and when in the main menu press 5, 4, 0 and ~~~ in turn.

"MCP-ACD File Transfer Utility" – Downloading Correlation Results Files
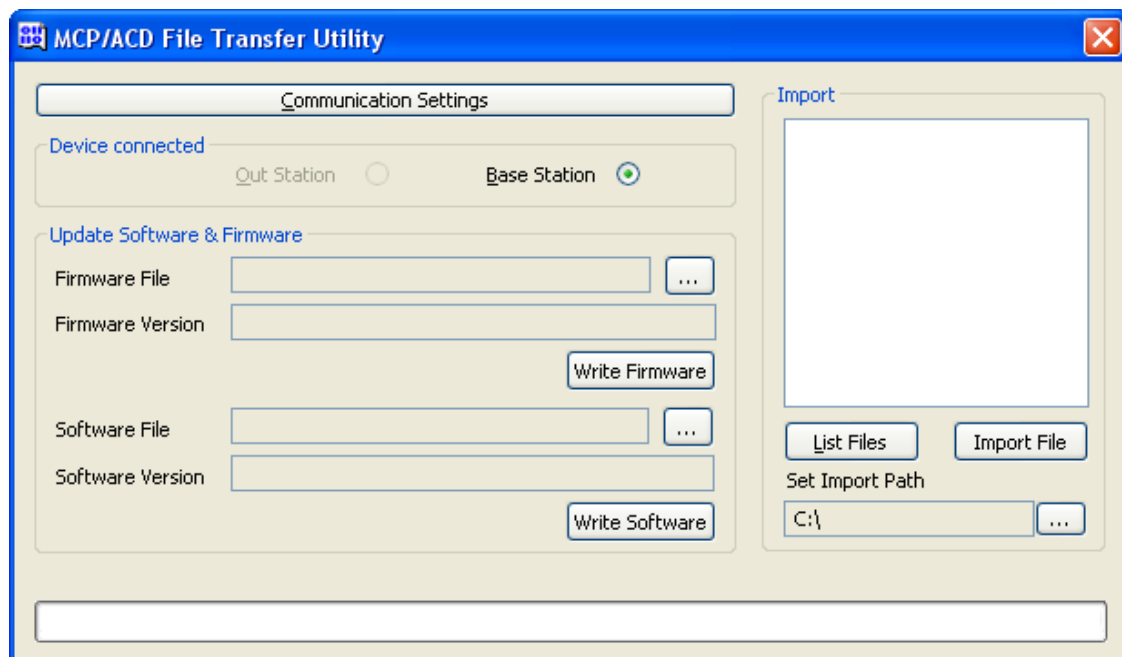
Important note:

To ensure that all new correlation results files are available for download, please switch the Base Station unit off, and then back on. This will cause a refresh of the internal list of files in the Base Station unit.

Preparation

Start the application as described at the start of this document under the sections:
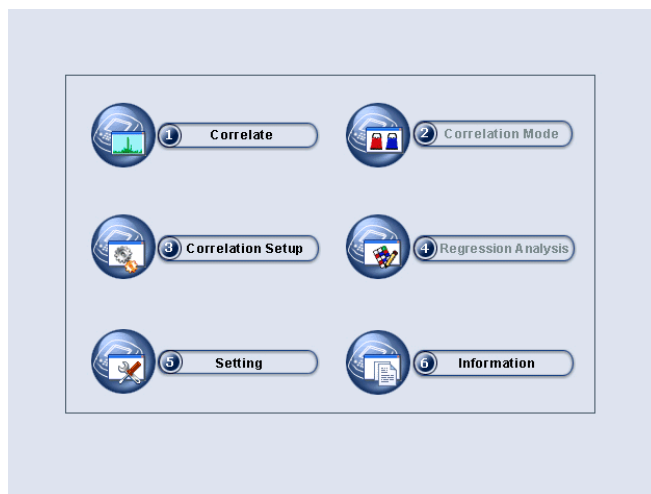
- Starting the MCP-ACD File Transfer Utility
- MCP-ACD File Transfer Utility Startup
- Communications Configuration

When the "MCP-ACD File Transfer Utility" is ready to download correlation result files, you will see the application window with options/buttons enabled as shown below.

Ensure the Base Station unit is powered and the main application is closed. To close the main application, follow the steps 1 to 5 below.

1. Ensure power is applied to the Base Station and that a serial cable is connected between the Base Station and the PC.
2. Switch on the Base Station.
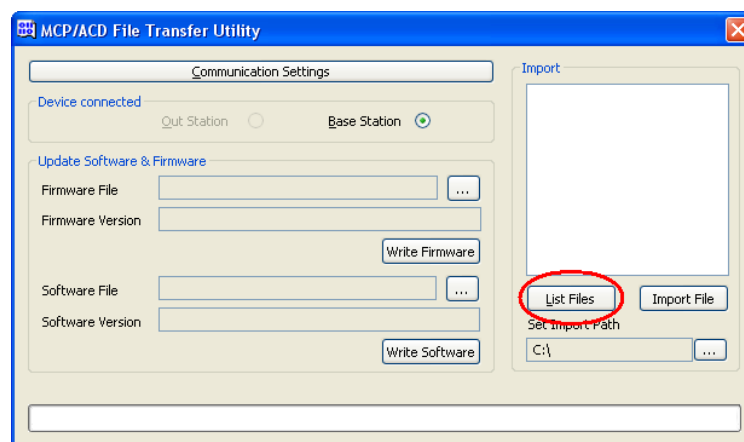3. Wait for the Base Station application to boot into the main menu as shown below.

4. Press CANCEL multiple times until the message "You are about to exit the application" is shown.
5. Press ~~~ (between the top and bottom arrow keys) and you will see the screen as shown below.
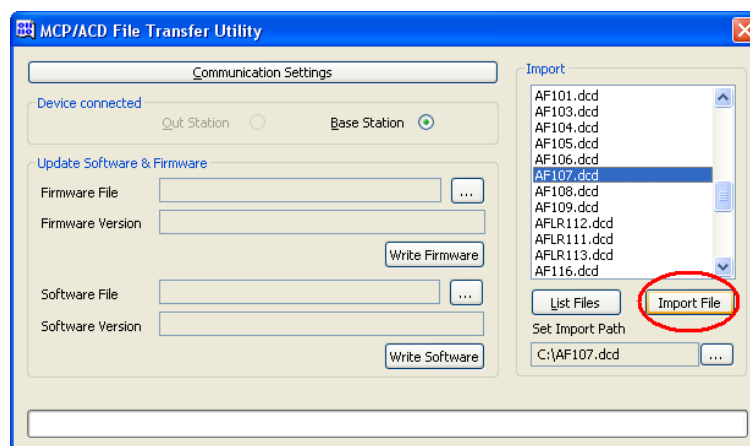
When the above screen is shown the Base Station unit is ready for correlation results to be downloaded.

Downloading results files

1. To list the files that are available to download click "List Files".
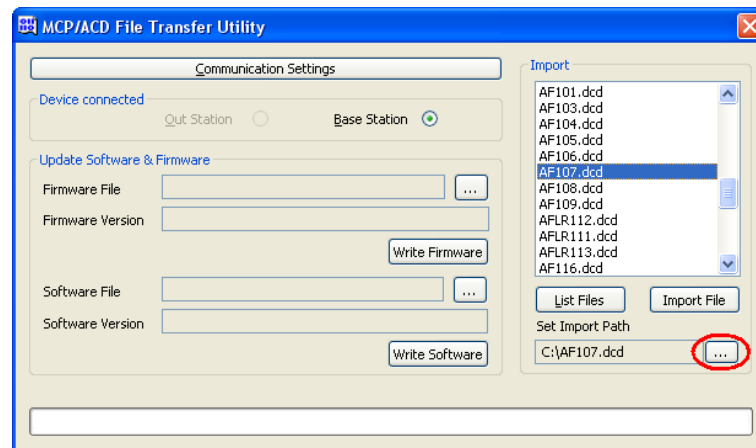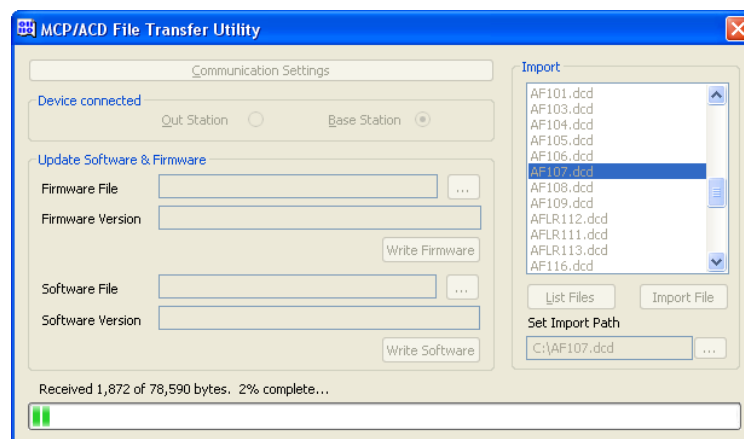

2. You will see a list of files as shown below.

3. The target folder is set by default to "C:\" and this is where downloaded correlation results files will be placed.

a. If you wish to download to this default folder click the "Import File" button as highlighted above then skip to step 4 below.

b. If you wish to select a different target location you much first select a file to import in the list and then click the button highlighted below.

c. When you have selected the target location, file transfer will start immediately.

4. During file transfer you will see the file transfer progress as shown below.

5. On successful completion you will see a pop-up message similar to the following image.

6. You can repeat this process and select more files for transfer.

7. This concludes the correlation result download process. To switch off the Base Station hold the 'Power' button for 5 seconds and the unit will turn off. The unit is now ready for normal correlation use.