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# **Device Monitor Installation and Introduction Guide for FH Mobile ePCR**

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# Chapter I

## Overview

This guide is designed to give you an overview of the Device Monitor Add-On for the FH Mobile ePCR product and to provide instructions to install, configure, and use the software.

### Important Terms

Throughout this guide, certain terms are used:

- 'FH Mobile ePCR' is a mobile computer application for entering patient care reports in the field.
- 'Mobile computer' is the mobile computer where FH Mobile ePCR is installed.
- 'FH database' is an FH installation where incident records are entered. The FH Mobile ePCR installation on the mobile computer needs to have access to the FH database to create a local copy of lookup tables used by FH Mobile ePCR on the mobile computer.
- 'Synchronize' is the process of transferring lookup tables from your FH database to FH Mobile ePCR records, and transferring FH Mobile ePCR records that are closed and marked for export to your FH database.
- 'Action Plan' is the feature designed for FH Mobile products to allow users to configure the layout of display grids used for record entry. In FH Mobile ePCR, unique action plans can be created for different patient treatment scenarios.
- 'Action Items' are the medical interventions performed in an action plan.
- 'Events' are the activities recorded by the cardiac monitor which can be imported as Device Data with the patient record.
- 'Device Data' is the chosen data imported from the cardiac monitor through the Device Monitor wizard.
- 'Patient Case File' is the Physio Case Object file. This is the cardiac monitor's patient incident report.

### How Device Monitor for FH Mobile ePCR Works

Device Monitor for FH Mobile ePCR allows you to transfer data - collected by a cardiac monitor used for patient intervention - to a FH Mobile ePCR patient record. Setup is vitally important in FH Mobile ePCR; you need to map how the current cardiac monitor annotation event records translate to FH EMS codes through code conversions, and verify the defaulted field mapping is accurate to the device. Data is output from the cardiac monitor to the FH Mobile device. With the EMS patient record initiated, Device Monitor import wizard gives the user the ability to preview the events before importing. Once the events are chosen, they are imported into Device Data fields within the patient record, including generating Vitals records. Users will be able to view ECG rhythms imported as

.JPG formatted files for the patient record. The Device Data is then retained with the FH Mobile patient record and sent to the FH database when a synchronization is performed.

It is important to note, Device Monitor's interface to the cardiac monitor device is not approved or warranted for diagnostic use (I.E. make patient care decisions). The captured information is warranted for post-event review and study.

## System Requirements

Device Monitor requires the following:

- FH Mobile ePCR installed on a mobile computer with:
  - Windows® 2000, Windows® XP (Windows XP Tablet PC Edition is recommended), or Windows® Vista Business Edition.
  - 600MHz Pentium III compatible processor or higher.
  - 512 MB available RAM (we recommend 1GB or more).
  - 2 GB available hard disk space (your requirements may be greater depending on the number of records you synchronize and the size of embedded attachments. We recommend 4GB of free disk space).
  - 800 by 600 minimum video resolution (we recommend at least 1024 by 768).
  - .NET Framework 1.1 or higher.
  - Install Shield Version 10.
- Connection to FH standard or FH Enterprise database version 7.4.13 or greater. The connection only needs to be available during synchronization although a connection can be used to collect staff scheduling information anytime a connection is available.
  - If you run FH Enterprise, you can also optionally maintain a wireless connection between FH Mobile ePCR and your FH Enterprise database. When *Real-Time Wireless* is enabled a wireless connection can be used to update staff scheduling information for FH Enterprise systems with the optional scheduling add-on.
- Connection to the supported cardiac monitor via wired cable (recommended) or blue tooth enabled wireless communication.

## Chapter 2

# Installing and Configuring Device Monitor for FH Mobile ePCR

The installation of FH Mobile ePCR on the mobile computer and licensing the Mobile computer to access records in your FH database should already be completed during the FH Mobile ePCR setup. For more information on installing FH Mobile ePCR please review the **FH Mobile ePCR Installation and Introduction Guide**.

### To Install Device Monitor Components for FH Mobile ePCR

- ⊕ Log into mobile computer as an administrator. You should close all open applications before installing Device Monitor and disable anti-virus software.
- ⊕ Insert the FH Mobile CD. The FIREHOUSE Software Mobile installation menu should automatically display.



If autorun is disabled, select the **Start** button, *Run...* option to open the **Run** command window. Type *E:\autorun* (where E is the CD drive letter) then press **OK**. The installation menu should display. You can also double-click the CD drive icon from **My Computer**.

- ⊕ Press **Install Device Monitor Software (Physio)**. The installation **Welcome** form should display.
- ⊕ Select *New Installation* then Press **Next>**.
- ⊕ Generally, accept the default installation location listed in the **Specify New Install Location** step. Press **Browse** to change the location only if necessary. Press **Next>**.
- ⊕ Select the interface type appropriate for your cardiac monitor, then press **Next>**.
- ⊕ Review the Device Monitor prompt, and press **OK**.
- ⊕ A list of selectable items should be displayed. The installation wizard will automatically place a check in the items displayed that are not detected as installed. Press **Next>**.
- ⊕ Press **Finish**.

Device Monitor is installed and ready to configure.

# Configuring Device Monitor for FH Mobile ePCR

There are Global and ePCR configuration options to control FH Mobile ePCR behavior. The setup options are inclusive for the cardiac monitor interface chosen during installation. This allows any cardiac monitor of the chosen interface to connect to the mobile computer with FH Mobile ePCR installed. At minimum, we recommend continuing your configuration setup in the order below:

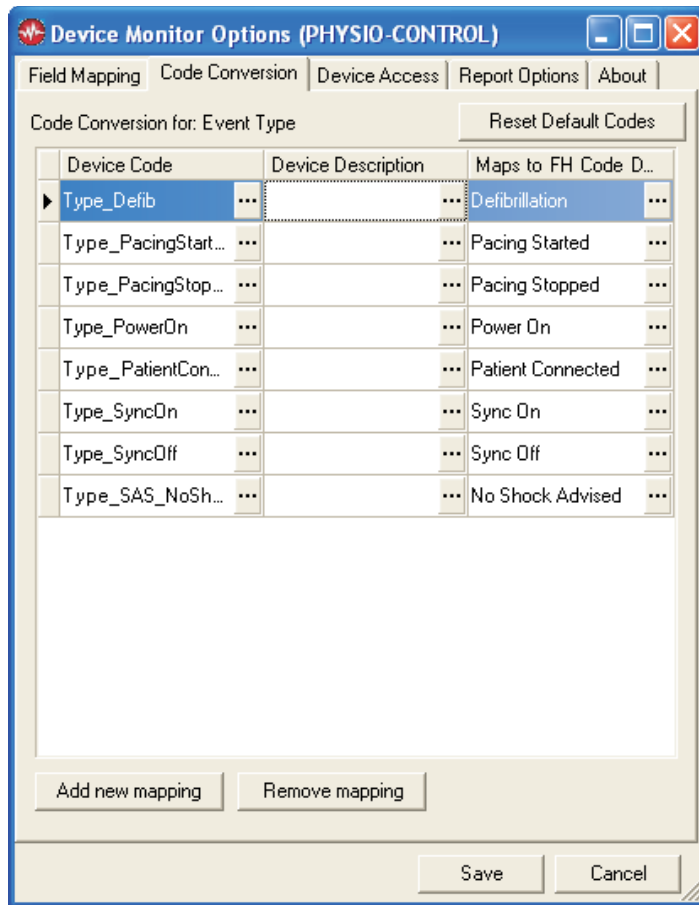
- In FH database, populate the device event type lookup table. We recommend bringing the cardiac monitor to an FH desktop computer so all necessary codes are entered.
- Verify the system clock date/time for the cardiac monitor matches the date/time of the FH Mobile computer to ensure times recorded for events are synched correctly with the intervention records for the patient.
- Verify the communication via wired cable or blue tooth connection between the mobile computer and cardiac monitor is successful.
- Perform a FH Mobile sync of the FH main database to the FH Mobile database for all lookup code information to be downloaded. This will give you the necessary components to complete the Device Monitor Setup options for a device connection and data conversion (detailed below).
- Complete the Device Monitor Setup options.

## About Device Monitor Setup Options

Device Monitor options control various features including, specifying the Field Mapping, Code Conversions, Device Access, and Report Options. Field Mapping options specify the FH field to their corresponding Device Data Element. Code Conversion options are applied for device monitor button annotation events. Device Access is available to change the location of the cardiac monitor data if the default location is incorrect. The Report Options define the look of the Patient Case File (PCO) which can be included with the patient record.

### To Configure Device Monitor Options

- ⊕ With FH Mobile ePCR open, select the **Start** button.
- ⊕ Select the **Tools & Options** button, **ePCR Options** option. The **ePCR Options** form is displayed. **General Options** should be displayed by default.
- ⊕ Press **Device Monitor Setup**. The **Device Monitor Options** form is displayed.
  - ⊕ The **Field Mapping** tab has the values established by default in conjunction with the interface type chosen during installation. Make changes only if necessary.



- ⊕ The **Code Conversion** tab has the NEMESIS equivalent values for the device monitor events set by default.
  - ⊕ Select **Add new mapping** to add additional event annotations.
  - ⊕ Press the lookup button in the appropriate *Device Code* or *Device Description* column to choose a code or description and press **OK**. The Device Event Description must be selected to successfully map to the chosen FH code.
  - ⊕ Press the lookup button in the *Maps to FH Code Description* to select the appropriate FH code. (If the correct code does not exist, the code must be created in the FH database, and a new synchronization performed to the FH Mobile database to complete the conversion mapping.)
- ⊕ Select the **Device Access** tab to confirm the location for cardiac monitor data to be found, and any necessary user name/password settings. The values are established by default in conjunction with the interface type chosen during installation. Make changes only if necessary.
- ⊕ Select the **Report Options** tab to set *Grid Shade*, *Channels*, *12 Lead View* and *12 Lead Sweep Speed* settings for the patient case file if necessary.
- ⊕ Press **Save** to save Device Monitor Settings.

- ⊕ Check *Attach the Patient Case File (PCO)* to include the file as an attachment to the patient record.
- ⊕ Press **Save** to close ePCR Options.

# Chapter 3

## Using Device Monitor for FH Mobile ePCR

Device Monitor for FH Mobile ePCR is an add-on application designed for importing cardiac monitor data into the patient record of the EMS incident. FH Mobile ePCR is designed to be used in the field, with a simple synchronization process for updating the FH database with EMS patient incident records.

Reference materials for the cardiac monitor are available from the cardiac monitor vendor.

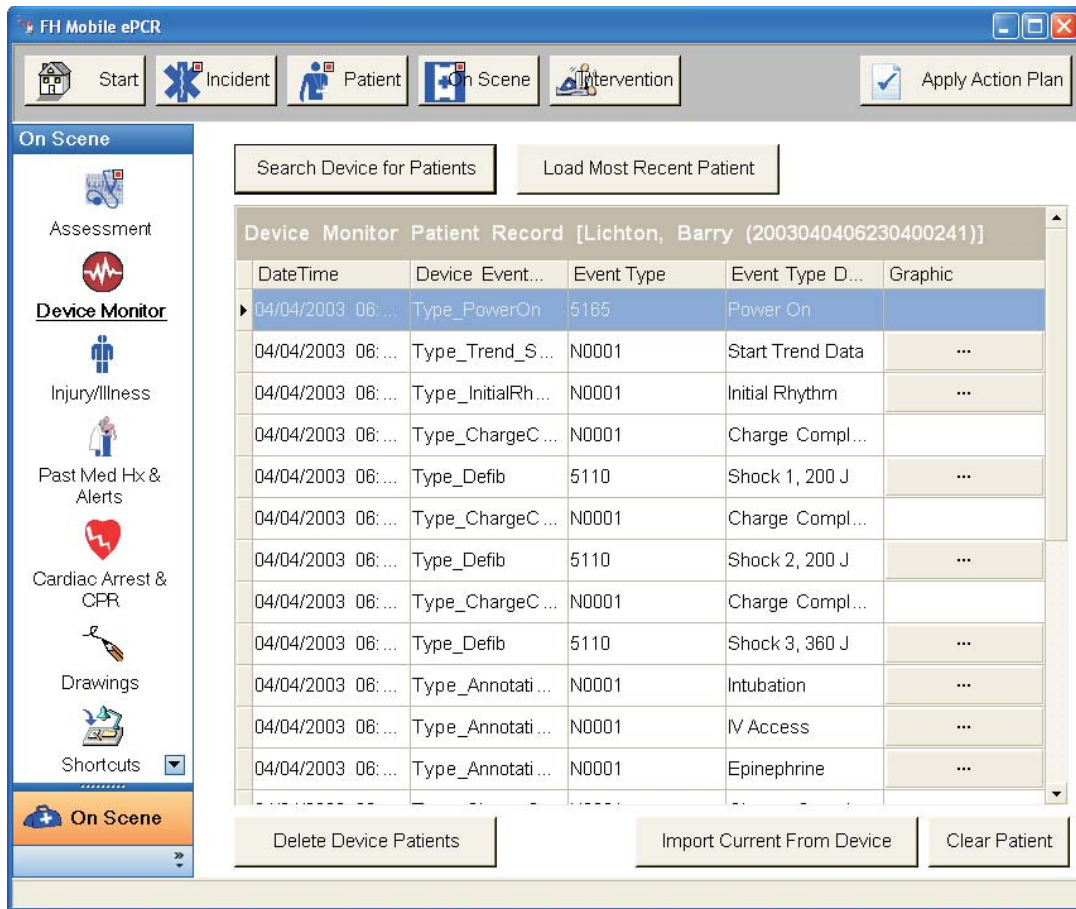
### Understanding the Device Monitor workspace

The Device Monitor workspace is designed to make patient care reporting as easy as possible. FH Mobile ePCR includes the ability to reassign fields to other areas and the field sequence can be changed as needed. Please note that your installation may vary. Device Monitor will be located with the On Scene options. The data populated by Device Monitor is placed in the *Medical Device Data*. By default, this will be found in the *Assessment* option of the On Scene section.

### Overview of Device Monitor Data Import

The Device Monitor data import (Pic 3-1, next page) is performed on an already existing patient record in FH Mobile ePCR. The import is accomplished from inside FH Mobile ePCR, using the Device Monitor import features to *Load Most Recent Patient, and Search Device for Patients*. The *Search Device for Patients* feature will browse the database created on the mobile computer to retain cardiac monitor records. The Select Patient query form allows the user to locate the desired patient record. If the query is empty, the Download Patients button launches a wizard to move data from the cardiac monitor device to the mobile computer. *Load Most Recent Patient* selects the last patient record downloaded from the cardiac monitor. This button would be considered a shortcut around searching the device for patients. When the patient has been selected and their cardiac monitor information is displayed on the device monitor screen, the *Import Current from Device* is the 'Commit' to associate that patient data from the cardiac monitor with the existing open FH Mobile ePCR patient record. After selecting Import Current from Device, then the Device Monitor form empties and information is now in the *Medical Device Data* grid.

Pic 3-1



### Overview of Device Data Grid

Once the import is completed through Device Monitor the information is used to create records in the Medical Device Data grid of the Assessment section. To speed data entry, Device Data records can be used to create Vitals records with **Create Vitals Record** button. While FH Mobile only creates Vitals records from the cardiac monitor data, procedure and medication event records come with data for post-event analysis purposes.

### Navigating and Interface Basics

Device Monitor continues with the same interfacing features included with all FH Mobile applications. FH Mobile ePCR is designed for mobile computers to be used in a mobile environment, with oversized command buttons. When up and down arrows are available, press to move the cursor or selected record up/down. Certain fields allow multiple values to be added to the record in a specific order. Check grids can include a large number of items to select from. After you press the lookup button for the check grid driven field, all

available values are displayed. As the user moves from one grid to another, FH Mobile will automatically save the data entered in most areas. As you navigate through On Scene information (or in Interventions when an intervention is closed), every time you switch to a different form, the record is saved.

## Importing New Patient Device Data

The importing process is a data transfer and record creation process. The data must be exported from the cardiac monitor before the device monitor wizard will be able to generate the Medical Device Data information. We recommend the incident number or patient name be entered in the cardiac monitor record before performing an import of the cardiac monitor. Once the data is on the mobile computer, the import process relies on the user to select the appropriate patient record from the cardiac monitor data. With the record imported into FH Mobile, the synchronization will populate the data into the FH database.

### To Access Assessment Fields Data Grid

With FH Mobile ePCR open and the patient incident record initiated:

- ⊕ Press the **On Scene** button.
- ⊕ Select the **Assessments** option. Note that the assessments that are displayed are based on the default Action Plans that have been added via ePCR options.

### To Add Most Recent Patient Incident Device Data

With FH Mobile ePCR open and the patient incident record initiated:

- ⊕ Press the **On Scene** button.
- ⊕ Select the **Device Monitor** option.
- ⊕ Press **Load Most Recent Patient**.
- ⊕ If you question what the most recent patient record may be, press **Yes** to the prompt "Would you like to start the Download Wizard?", otherwise press **No**.

Ensure that the *Patient Record* and/or *Incident Number* at the top of the grid is correct. If the patient record is incorrect, select the **Clear Patient** button, and press **Search Device for Patients** to browse for the correct record.

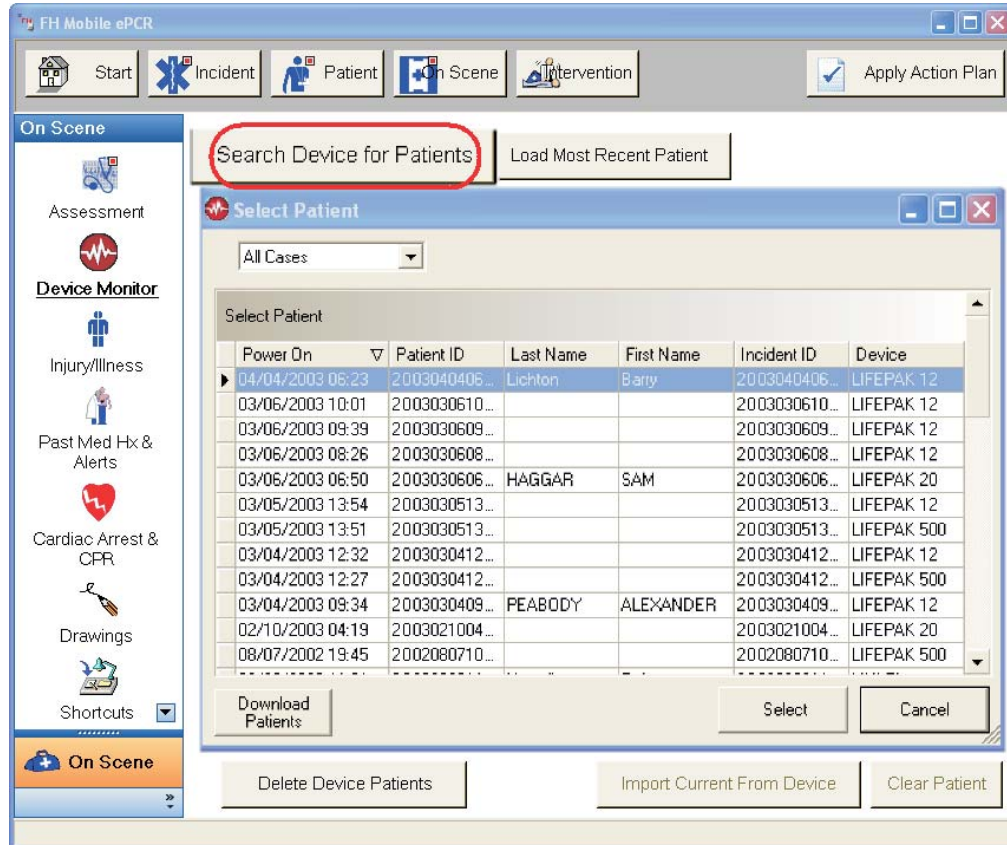
- ⊕ Press **Import Current From Device** to create records in the Device Data grid.

The device data is now imported into the FH Mobile ePCR patient report.

## To Download Patient Records for Selection

With FH Mobile ePCR open and the patient incident record initiated:

- ⊕ Press the **On Scene** button.
- ⊕ Select the **Device Monitor** option.
- ⊕ Press **Search Device for Patients**.

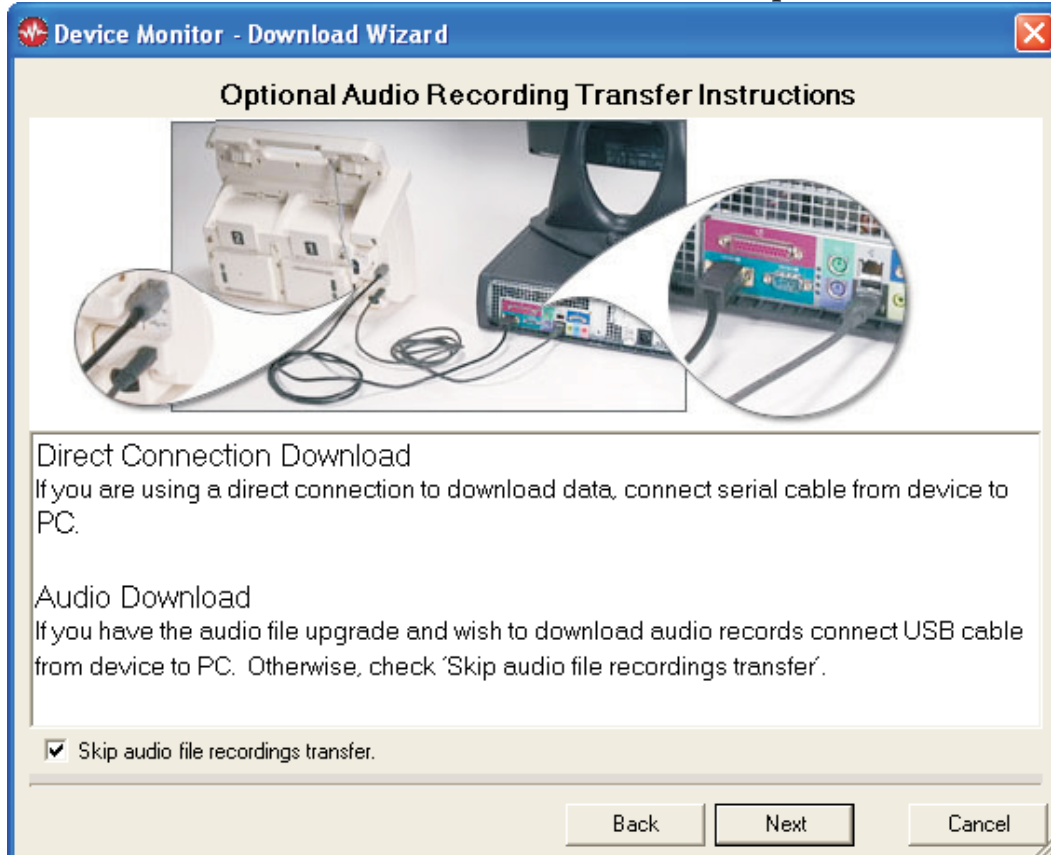


- ⊕ Press **Download Patients**.

- ⊕ Select the Device Type, then press **Next**.



- ⊕ Confirm the direct connection is established, then press **Next**.



- ⊕ The wizard should transfer data from the cardiac monitor to a compatible database on the mobile computer. A list of All Cases exported from the cardiac monitor will be displayed by default.
- ⊕ Press **Finish**.

#### To Select Device Patient Incident to Import

With FH Mobile ePCR open and the patient incident record initiated:

- ⊕ Press the **On Scene** button.
- ⊕ Select the **Device Monitor** option.
- ⊕ Press **Search Device for Patients**. A list of All Cases already exported from the cardiac monitor is displayed by default.

Select the drop down arrow to change the *Select Patient* form filter. Options include: Last 60 minutes, Last 120 minutes, Previous 4 hours, Previous 8 hours, Previous Day, Previous 7 Days, or All Cases..

- ⊕ Highlight the patient record desired, then press **Select**. The cardiac monitor event records are inserted into the Device Monitor grid.
- ⊕ After data is confirmed, press **Import Current From Device** to create records in the Device Data grid.

Cardiac monitor information is now populated in the Medical Device Data grid. Continue with the patient care report.

#### To Delete Device Patient incident records

With the FH Mobile ePCR patient incident record initiated and viewing the **On Scene** form:

- ⊕ Select the **Device Monitor** option.
- ⊕ Select the **Delete Device Patients** button.
- ⊕ Place a check beside each record to delete, or check *Select All* to delete all listed records.
- ⊕ Press **Delete**.

#### Adding Intervention Information

The Intervention section provides the user the documentation area to apply Action Plans that have been set up. The Action Plans can contain intervention details for medications, procedures, and recorded vitals. Individual intervention actions can be recorded independently of Action Plans. To speed data entry, Device Data records can be used to create Vitals records with a single button. As Device Data records are chosen, the user can select the feature to **Create Vitals Record**. FH Mobile ePCR will generate Vitals records based on the information populated in the Device Data records chosen.

### To Create a Vitals Record from Device Data

With the FH Mobile ePCR patient incident record initiated and viewing the **On Scene** form:

- ⊕ Select the **Assessment** option.
- ⊕ Select the Medical Device Data field in the grid. The *Medical Device Data* records from the cardiac monitor will be displayed.
- ⊕ Highlight each Vitals event listed to use for creating a Vitals record. Press **Create Vitals Record**.
- ⊕ Review the Device Monitor prompt and press **OK**.
- ⊕ Press **Save** when completed.

### To Add Medical Device Data Record

With the FH Mobile ePCR patient incident record initiated and viewing the **On Scene** form:

- ⊕ Select the **Assessment** option.
- ⊕ Select the Medical Device Data field in the grid. The Medical Device Data records from the cardiac monitor will be displayed.
- ⊕ Press **Add**. Enter necessary information in the appropriate fields.
- ⊕ Press **OK** when finished.

### To Edit Medical Device Data Record

- ⊕ With the FH Mobile ePCR patient incident record initiated and viewing the **On Scene** form, select the **Assessment** option.
- ⊕ Select the Medical Device Data field in the grid. The Medical Device Data records from the cardiac monitor will be displayed.
- ⊕ Highlight the appropriate Medical Device Data record, and press **Edit**.
- ⊕ Enter necessary information in the appropriate fields.
- ⊕ Press **OK** when finished.

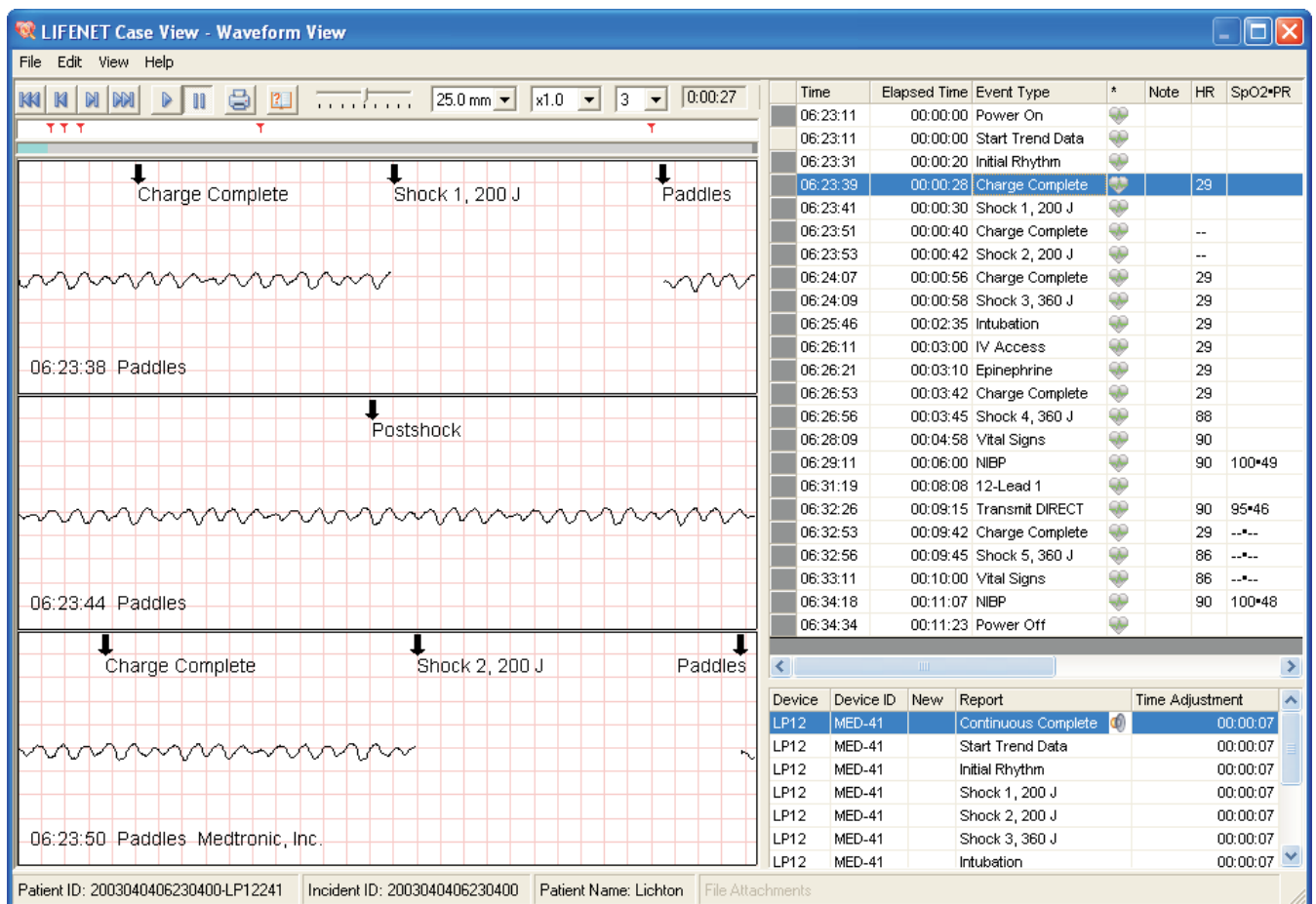
### To Delete Medical Device Data Record

- ⊕ With the FH Mobile ePCR patient incident record initiated and viewing the **On Scene** form, select the **Assessment** option.
- ⊕ Select the Medical Device Data field in the grid. The Medical Device Data records from the cardiac monitor will be displayed.
- ⊕ Highlight the Medical Device Data record to remove, then press **Remove**.

## Accessing EMS Incident/Patient Reports and Forms

A Patient Case file, or DeviceMonitorPatient.PCO file, is an attached file of the captured data on the cardiac monitor. It can be viewed with the added software installed during the Device Monitor installation. Pic 3-5 and 3-6 next page provide examples of a viewable patient case file. Patient Case File forms are inserted into the Attached Files section of the EMS patient record in the FH database. FH Standard version users have the reports attached as *Embed copy of file* attachments. FH Enterprise version users have the reports attached as *File or Program on Disk* attachments, and *Store a copy on the server* option is enabled. Patient Attached Files field should be set in Action Plans with the Assessment Fields for ease of viewing attached patient case files.

Pic 3-5



### To View Patient Case File (PCO)

With the FH Mobile ePCR patient incident record initiated and viewing the **On Scene** form:

- ➊ Select the Attached Files field in the grid. The records for patient Attached Files will be displayed.

- ⊕ Highlight the *DeviceMonitorPatient.pco* file and press **View**.
- ⊕ Use the available navigation arrows to view the documented cardiac rhythms with event annotations included.
- ⊕ Close the Waveform Viewer form.
- ⊕ Press **Done** when finished.

Pic 3-6

**LIFENET Case View - Waveform View**

File Edit View Help

25.0 mm x1.0 3 0:09:44

Shock 5, 360 J

06:32:55 II

Postshock

06:33:01 II

Vital Signs

06:33:07 II Medtronic, Inc.

Time	Elapsed Time	Event Type	*	Note	HR	SpO2*PR
06:23:11	00:00:00	Power On	♥			
06:23:11	00:00:00	Start Trend Data	♥			
06:23:31	00:00:20	Initial Rhythm	♥			
06:23:39	00:00:28	Charge Complete	♥		29	
06:23:41	00:00:30	Shock 1, 200 J	♥			
06:23:51	00:00:40	Charge Complete	♥		--	
06:23:53	00:00:42	Shock 2, 200 J	♥		--	
06:24:07	00:00:56	Charge Complete	♥		29	
06:24:09	00:00:58	Shock 3, 360 J	♥		29	
06:25:46	00:02:35	Intubation	♥		29	
06:26:11	00:03:00	IV Access	♥		29	
06:26:21	00:03:10	Epinephrine	♥		29	
06:26:53	00:03:42	Charge Complete	♥		29	
06:26:56	00:03:45	Shock 4, 360 J	♥		88	
06:28:09	00:04:58	Vital Signs	♥		90	
06:29:11	00:06:00	NIBP	♥		90	100*49
06:31:19	00:08:08	12-Lead 1	♥			
06:32:26	00:09:15	Transmit DIRECT	♥		90	95*46
06:32:53	00:09:42	Charge Complete	♥		29	--*--
06:32:56	00:09:45	Shock 5, 360 J	♥		86	--*--
06:33:11	00:10:00	Vital Signs	♥		86	--*--
06:34:18	00:11:07	NIBP	♥		90	100*48
06:34:34	00:11:23	Power Off	♥			

Device	Device ID	New	Report	Time Adjustment
LP12	MED-41	Continuous Complete	0	00:00:07
LP12	MED-41	Start Trend Data		00:00:07
LP12	MED-41	Initial Rhythm		00:00:07
LP12	MED-41	Shock 1, 200 J		00:00:07
LP12	MED-41	Shock 2, 200 J		00:00:07
LP12	MED-41	Shock 3, 360 J		00:00:07
LP12	MED-41	Intubation		00:00:07

Patient ID: 2003040406230400-LP12241 Incident ID: 2003040406230400 Patient Name: Lichten File Attachments

# Chapter 4

## Troubleshooting Issues of Device Monitor

Below are some potential issues and resolutions you may encounter while using Device Monitor.

### Device Access Default Settings

If the *Search Device for Patients* option returns a message related to access to cardiac monitor records transferred from the device to the temporary database on the mobile computer, the security settings may have been changed. The default settings established by the interface type chosen during installation are:

- User ID: medtronic
  - Database: demo
  - Password: ers

### Medtronic Records Not Selectable

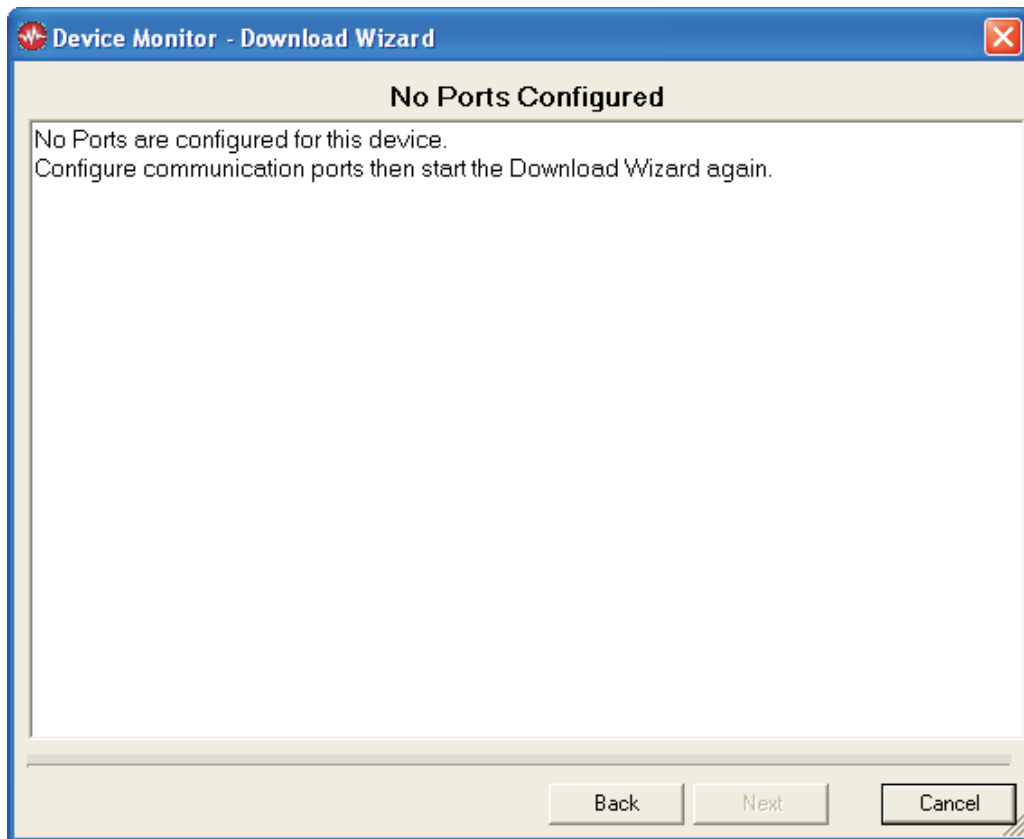
If you are unable to locate Medtronic cardiac monitor records (see pic 4-1, next page) that were exported to the mobile computer, we recommend attempting a transfer from the device to the mobile computer using these steps from the cardiac monitor device.

- ⊕ Press the **Transmit** button. The **Transmit** form will be displayed
- ⊕ Select the **Data...** option.
- ⊕ Choose the **Site** option to confirm the connection is set for *Direct* (wired) or *Bluetooth*.
- ⊕ Select **Send**.

OR

- ⊕ Press the **Options** button.
- ⊕ Select the **Archives** option. If prompted, answer *Yes* to end monitoring and close patient record.
- ⊕ Select the **Send Data...** option.
- ⊕ Choose the **Site** option to confirm the connection is set for *Direct* (wired) or *Bluetooth*.
- ⊕ Select the **Patient** option. Choose a specific patient record or select **All** to include all records on the cardiac monitor.
- ⊕ Select **Send**.

The cardiac monitor may not provide any confirmation of the completion of the transmission.



Pic 4-1: The Device Monitor download wizard may return an error similar to this if it cannot communicate to the cardiac monitor device.

### Missing Description Information

If you notice missing information or encounter problems while accessing Device data, you may not have entered the proper code conversions. Review the Device Monitor Options from the ePCR options. Confirm each setting desired has a code conversion mapping established.

### Not Passing Windows Logo testing

Some installations may receive a Hardware Installation form. The prompt will read:

"The software you are installing for this hardware: <Cardiac Monitor Product Name> has not passed Windows Logo testing to verify its compatibility with Windows XP.

Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing."

The form will provide options for **Continue Anyway** and **STOP Installation**. Select **Continue Anyway** for the Device Monitor installation to complete. This validation message is not related to Device Monitor, and can be ignored.

### Unable to view Patient Case File

The patient case file is viewed by using the software provided by the cardiac monitor vendor. If the patient case file is not viewing properly, reinstall the Device Monitor Interface from the FH Mobile CD. As you navigate the installation wizard, make sure the correct interface is selected, and the vendor's software is checkmarked for installation.

### Uninstalling Device Monitor

If you need to uninstall Device Monitor from a mobile computer because FH Mobile ePCR is no longer used on that mobile computer and drive space is limited, complete the following steps:

- ⊕ From the Windows **Start** menu, select **Settings** → **Control Panel** then double-click **Add or Remove Programs**.
- ⊕ Highlight **ACS Device Monitor**, then press **Remove**.
- ⊕ Follow any remaining prompts to complete the uninstallation.
- ⊕ Close the **Add or Remove Programs** form.