

MARS Ambulatory ECG System

UNIX to PC Conversion Instructions

Software Version 1.0

2027879-040 Revision B

Publication Information

The information in this manual applies only to MARS Ambulatory ECG System Version 8.0. It does not apply to earlier product versions. Due to continuing product innovation, specifications in this manual are subject to change without notice.

MARS, MUSE, and Samba Systems are trademarks owned by GE Medical Systems *Information Technologies*, Inc., a General Electric Company going to market as GE Healthcare. All other trademarks contained herein are the property of their respective owners.

The document part number and revision appear at the bottom of each page. The revision identifies the document's update level. The revision history of this document is summarized in the table below.

Revision	Date	Comment
A	12 March 2010	Initial release of this document.
B	7 June 2010	Revise Samba Services chapter to reflect changes from SPR.

Contents

1	Introduction	
	Conventions	6
	Typographical Conventions	6
	Safety Conventions	6
2	Conversion	
	Planning Your Conversion	7
	Conversion Workflow	7
3	Samba Services	
	Stopping the Samba Daemon	9
	Sharing Folders on the MARS UNIX System	10
	IP Address of UNIX Machine on enterprise Network	11
4	Restoring Archive Data to UNIX Workstation	
	Restoring the Data	13
	Ejecting the Tape	14
	Copying the Restored Data to a Network Drive	14
5	MARS UNIX Migration Tool	
	Installing MARS UNIX Migration Tool	15
6	Converting Data	
	Understanding Convert and Archive	17
	Convert and Archive (Recommended)	18
	Convert Only	19
	Archive Only	20
	Viewing/Saving the Log	20
7	The Conversion Log	

	Reading the Conversion Log	21
8	Checkout Procedure	
	Checking the Conversion on the MARS PC	23
A	VI Editor	
	Starting the VI Editor.....	25
	Exiting VI	25
	VI Commands	25
B	Usage Instructions Using Command Lines	
	UNIX to PC Command Line	27
	Listing MARS UNIX Slot/Report File(s)	28
	Converting MARS UNIX Slot/Report File(s).....	28
	Archiving Converted MARS UNIX Slot/Report File(s).....	28
	Converting and Archiving MARS UNIX Slot/Report File(s).....	29
	Viewing the Log.....	29
	Saving the Log.....	29

Introduction

The MARS UNIX PC Migration Tool converts MARS UNIX slot and report files for use by MARS PC version 8.0. To use the tool, you must first restore archived files to the MARS UNIX system from the tape archive. The tool cannot directly convert files from tape.

The tool supports three workflows:

Workflow	Description
Convert Only	Convert UNIX slot/report files. You can save and archive the converted files at a later date.
Archive Only	Archive already converted UNIX slot/report files.
Convert and Archive	Archive slot/report files immediately after conversion.

To convert slot and report files, you must restore them on the customer's existing MARS 3000, MARS 5000, MARS 8000 system, running MARS UNIX version 4.1.

You can run the conversion tool on a system with or without MARS PC installed. Supported Operating Systems for the tool include Windows 2003 Server, Windows 2000, and Windows XP. Because the tool is Windows-based, you must set up **Samba Services** on the MARS UNIX system. This allows the Windows system to access the MARS directory, where the restored files reside.

NOTE:

Samba allows network shares for chosen UNIX directories to appear to Microsoft Windows as normal Windows folders accessible via the network.

Instructions include a checkout procedure to verify that the conversion was successful.

You may convert the following file types:

File Extension	Data Type
.rpt	Reports
.nat	Holter (SEER, TAPE, monitoring)
.nrt	Monitoring

The instructions provided in this document assume you are running the tool using its user interface. You can also run the tool using command lines. The instructions for using command lines are in Appendix B.

Conventions

The following conventions are used in this manual.

Typographical Conventions

Style	Definition
Bold Text	Indicates keys on the keyboard, text to enter, or hardware items such as buttons or switches on the equipment.
<i>Italicized-Bold</i> Text	Indicates software terms that identify menu items, buttons or options in various windows.
Ctrl+Esc	Indicates a keyboard operation. A (+) sign between the names of two keys indicates you press and hold the first key while pressing the second key once. For example, "Press Ctrl+Esc " means to press and hold down the Ctrl key while pressing the Esc key.
< Space >	Indicates that you must press the spacebar. When instructions are given for typing a precise text string with one or more spaces, the point where the spacebar must be pressed is indicated as: < Space >. The purpose of the < > brackets is to ensure you press the spacebar when required.
Enter	Indicates that you must press the " Enter " or " Return " key on the keyboard. Do not type " Enter ".

Safety Conventions

The terms DANGER, WARNING, and CAUTION are used throughout this manual to point out hazards, and to designate a degree or level of seriousness. Familiarize yourself with their definitions and significance.

Safety Convention	Definition
Hazard	A source of potential injury to a person.
DANGER	Indicates an imminent hazard which, if not avoided, will result in death or serious injury.
WARNING	Indicates a potential hazard or unsafe practice which, if not avoided, could result in death or serious injury.
CAUTION	Indicates a potential hazard or unsafe practice which, if not avoided, could result in minor personal injury or product/property damage.
NOTE	Provides application tips or other useful information to assure that you get the most from your equipment.

Additional safety messages that provide appropriate safe operation information may be found throughout this manual.

Conversion

Planning Your Conversion

Restoring the raw slot files from the tape archive to the MARS UNIX system can take up to three minutes per file. This is due to the size of the slot file and data transfer rate of the tape drive. Please consider the time involved when planning your conversion. For example, a single tape archiving 50 slot files could take as long as 2.5 hours to restore. Once restored on the MARS UNIX system, the conversion process itself runs quickly, taking only 15-30 seconds to convert each slot file.

To shorten the time needed, you may want to consider converting only report files. These files are much smaller and take much less time to restore, and only a few seconds to convert.

When planning your conversion, remember that you must have:

- A working MARS UNIX system.
- An operating DAT Tape drive available.

Make sure that all data conversions are completed before removing the system from the network or retiring the system from service.

Conversion Workflow

Following is the general conversion workflow:

1. If you are converting the raw holter data, delete patients on the UNIX system to open as many slots as possible.
2. Restore the archive data from DAT to the UNIX workstation.
3. Choose one of the following options:
 - Run the conversion directly on the restored slot files on the UNIX system.
 - Copy the restored slot files to a network share and convert the files from there.

NOTE:

The second option allows you to restore slot files without the need to immediately convert them.

4. Run the **UNIX to PC Conversion Tool** on a Windows-based system

5. Select **Convert** or **Archive**.
 - Convert saves the converted files in the MARS PC slotfile format (that is, **seerslot1s20.nat**)
 - Archive saves the converted files in the MARS PC archive format (that is, **archive.nat**)
6. Set the source file location.

This is where the restored slot files are located.
7. Set the destination file location.

This is where you are saving the converted files.
8. Select the files or reports you want to convert.
9. Run the conversion.
10. Repeat these steps as required.

Samba Services

This chapter describes how to set up the Samba services to display UNIX folders on a PC.

Stopping the Samba Daemon

The following steps describe how to stop the **Samba daemon**.

1. From the MARS application, hold the middle mouse button, and click and drag any system icon onto the system menu header, located in the upper-left corner of the screen.
A **cmdtool** window opens and the **MARSxx-yyyy** command prompt is displayed.
2. At the prompt, type **su root**.
3. At the next prompt, enter the password for the root user.
This gives you root account permissions.

NOTE:

If you do not know the password, contact GE Healthcare Technical Support.

4. Check if **Samba** is running:
 - a. At the prompt, type **ps [space] —e** and press **Enter**.
 - b. Review the list and identify if the **smbd** process is present.
If it is present, make note of the **Process ID (PID)** and continue to step 5 .
If **smbd** is not displayed in the list, it is not running. Skip step 5 and go to [“Sharing Folders on the MARS UNIX System” on page 10](#).
5. Kill the **Samba** process:
 - a. At the password prompt, enter the password for the root user.
NOTE:
If you do not know the password, contact GE Healthcare Technical Support.
 - b. Type **kill <PID>** and press **Enter**.
Where **<PID>** is the process number associated with the **smbd** process.

Sharing Folders on the MARS UNIX System

Use the commands in this section to share folders on the MARS UNIX system.

1. Open the **smb.conf** file from the **cmdtool** using **VI Editor** or from the **Common Desktop Environment (CDE)** using the **Text Editor**.

Using the VI Editor:

1. Open a **cmdtool** window and log on as root user.
2. Type **vi [space]/etc/smb.conf**.
The **smb.conf** file opens in the editor.

NOTE:

If you are unfamiliar with the **VI Editor**, refer to [Appendix A “VI Editor” on page 25](#).

Using the Text Editor

1. Log on to MARS as a root user.
The **CDE** is displayed.
2. Click on the **Text Editor** icon.
The **Text Editor** window opens.
3. Browse to the **/etc** folder and open the **smb.conf** file.
2. Add the following entries to the **smb.conf** files:


```
[slots]
comment = UNIX slot files
path = /slots
public = yes
writeable = yes
create mask = UNIX permissions
```
3. Save your changes.
If you are using the **VI Editor**, type **:wq** to save your changes and exit the editor.
If you are using the **Text Editor**, select **Save** from the file menu.
4. From a **cmdtool** window, make sure you are logged on as root user and type **exec [space] /opt/MarsSamba/bin/smbd**. This starts the **Samba daemon**.
5. Type **ps [space] —e** and check that the **smbd** process is listed.

NOTE:

If you are having a problem getting the process to start, you may need to do a System **Shutdown** and **boot**.

IP Address of UNIX Machine on enterprise Network

The IP address of the UNIX machine is needed later to gain access to the folder shares on the network.

1. From the MARS application, hold the middle mouse button, and click and drag any system icon onto the system menu header, located in the upper-left corner of the screen.

A command tool window opens and the **MARSxx-yyyy** command prompt is displayed.

2. Identify the IP address to the **Enterprise Network**:

- a. At the prompt, type **su root**. This changes the user account for the command line tool to the root user.
- b. At the password prompt, enter the password for the root user.

NOTE:

If you do not know the password, contact GE Healthcare Technical Support.

- c. At the command line prompt, type **ifconfig [space] —a** and press **Enter**.
A list of IP addresses is displayed.
- d. Make note of the IP address connected to the **Enterprise Network**.

NOTE:

MARS UNIX systems connected to the monitoring real-time network have more than one network card. The address for the **Enterprise Network** typically is identified as the highest **hmeX** number in the list. For example, if both **hme1** and **hme2** are listed, **hme2** is normally the IP address for the **Enterprise Network**.

Restoring Archive Data to UNIX Workstation

You need all of the slot files on the MARS workstation open to restore as many slot files as possible. To open slot files, you need to delete patients, as described in the *MARS Operator's Manual*.

You may want to convert existing slot files and reports on the MARS UNIX workstation as the first step of the conversion process before deleting them. If you prefer to archive the current data and convert it later, copy it to DAT Tape, as described in the Operator's Manual, "Storing DATA to TAPE" in the MARS User's Manual.

Restoring the Data

1. Insert the **DAT** tape in the DAT tape drive.
Push the tape into the drive until the drive draws it in. When ready, the **DAT drive activity** light glows green.
2. Select the **Patient Select** menu icon.
3. Click **DAT** in the **Data Type** list box.
4. Select the patient or patients you want to restore.
5. Click **Tools**.
6. Click **Restore from DAT**.
The following message is displayed: **You have selected X file(s) for DAT restore. Are you sure you want to restore the selected file(s)?**
7. Click **Yes** to restore a single patient, or click **Yes to ALL** to restore more than one patient.
The **DAT activity** light blinks for a few seconds and the following message is displayed: **X file(s) queued for DAT restore**.
8. Click **OK**.
The workstation restores files to the following data types:

Files	Data Types
Tape, SEER, or Monitoring Holter	Holter
Discharged Monitoring Patient Files	Monitoring
Report	Stored reports

The status of the selected file(s) changes from ***Queued for Acq*** to ***% Acquired*** and finally to ***Ready to Edit***.

Ejecting the Tape

1. Check that the **activity light** is not glowing.

NOTE:

Pressing ***Eject*** while the **Activity** light is blinking may interrupt a tape access command.

2. Press ***Eject***.
The **Activity** light flashes for about 30 seconds
3. The tape cartridge ejects.
4. Remove the tape drive.

Repeat this procedure for each set of slot files you are recovering.

Copying the Restored Data to a Network Drive

If you are converting the data from a network drive instead of the MARS UNIX workstation,

1. Access the ***\slots*** or ***\reports*** folder shares you set up in [Chapter 3 “Samba Services” on page 9](#).
2. Copy the folders to the network drive you are using.

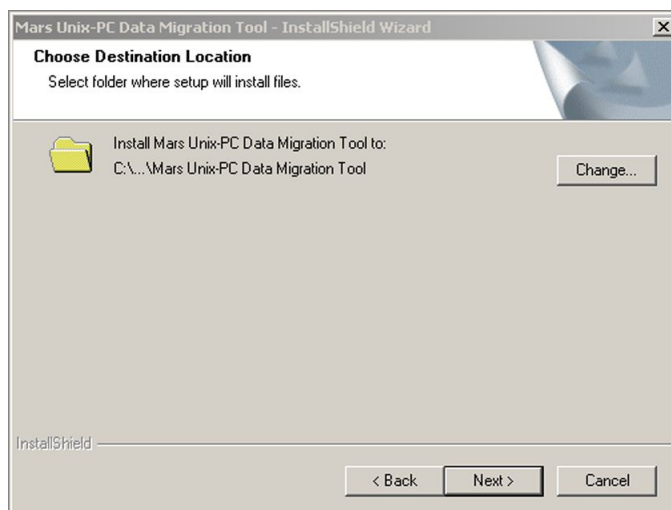
MARS UNIX Migration Tool

Installing MARS UNIX Migration Tool

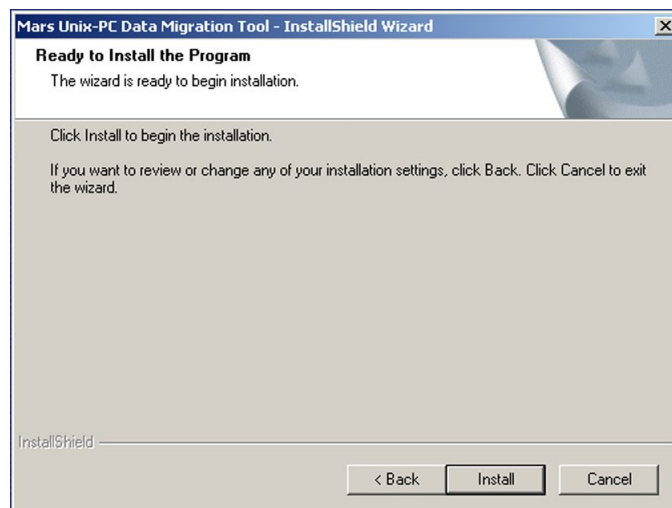
NOTE:

Customers who do not have an installation CD available can access the **UNIX to PC Data Conversion** tool directly from a MARS v8 Workstation. Use Windows Explorer and browse to **c:\gemsit\opt\MarsNT\bin**. Double-click **UIUnix2PC.exe** to launch the tool.

1. Insert the **UNIX to PC Data Conversion Tool** CD into the PC where you are installing the tool.
2. Navigate to the CD-ROM driver and double-click **Setup.exe installer**.
3. Select **Next** at the **Welcome** screen.
4. Select the **I accept the terms of the license agreement** check box and click **Next**.
5. At the **Choose Destination Location** dialog box, do one of the following:
 - To accept the default installation path, click **Next**.
 - To change the installation path, click **Change**, browse to the location where you want to install the tool, and click **Next**.



6. At the **Ready to Install the Program** dialog box, select **Install**.



7. Click **Finish** when prompted to complete the installation.

Converting Data

You have the following options when using the MARS UNIX to PC Conversion Tool:

- Convert and archive MARS UNIX slot/report file(s)
The recommended option, this converts the existing MARS UNIX slot/report files and archives it in the MARS PC format. This option saves time and avoids confusion late in the process and is discussed in the section [“Convert and Archive \(Recommended\)” on page 18](#).
- Convert MARS UNIX slot/report files
This option converts the existing MARS UNIX slot/report files into the MARS PC slot/report file format.
- Archive converted MARS UNIX slot/report file(s)
This option archives MARS UNIX slot/report files that were previously converted into the MARS PC archive format.

Understanding Convert and Archive

The conversion tool saves the converted files using the standard slot file naming convention. To avoid generating a large number of converted files into a single folder, GE Healthcare recommends you create a folder structure for the converted files so that it aids in identifying the files in it. For example, if you already have a naming scheme for the tapes, you may want to use something similar as a folder structure for the converted data.

When data is converted to the archive state, an ***index.dat*** file is created in the folder and updated each time new files are added. The ***index.dat*** provides information to the MARS PC that identifies the slot or report file to the system to restore it if needed. If the destination folder is changed, a new ***index.dat*** file is created. You cannot combine archived files later on from two different folders since the ***index.dat*** file is indexing only the archive files for one folder.

Each time you run the conversion tool, it adds the converted or archived files to the destination folder. If there are previously archived or converted files, new files are created using the next numerical sequence. For example, if the last archived folder is

archive5.nat, the next file created is **archive6.nat**. If the destination folder is changed, the number sequence starts over at 0.

NOTE:

If you convert a MARS UNIX slot file that contains Site and Location information, that information will not be converted to the MARS PC file unless the Site and Location already exist on the MARS PC system. Therefore, before beginning the conversion, you may want to verify that all Sites and Locations listed on the MARS UNIX system exist in the MARS PC system.

Convert and Archive (Recommended)

To convert and archive data in a single step, use the following procedure:

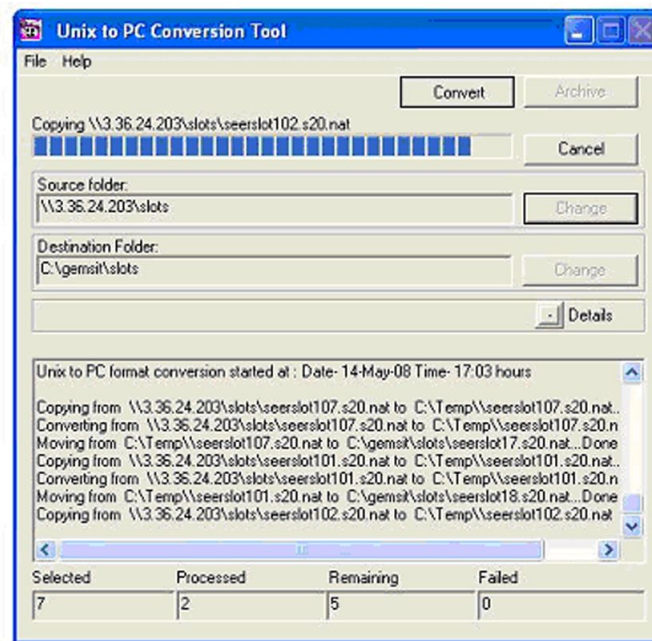
1. Launch the **UI UNIX to PC Data Conversion** tool.
2. Click **Change** under source folder frame or select **File->Open** . This opens the **File Open** dialog box.
3. If converting data directly from the **\slots** or **\reports** folder on the MARS UNIX workstation, give the **IP address** of the UNIX machine preceded by **** in the **File Name** text box. That is: **\\192.43.12.3**.

NOTE:

You can also use a mapped drive, provided you already mapped it to the MARS UNIX machine.

- If you copied the restored slot files or reports to a network share, provide the **UNC** path to the share, **\\<computername>\<foldershare>**.
 - If you copied the restored files to the system running the conversion tool, you need to provide the path to the folder.
4. If the folder share is restricted, you may be prompted for a **Username** and **Password**.
For a MARS UNIX workstation, these may be the **Username** and **Password** for the MARS UNIX machine.
 5. The tool displays all the slot files and reports available in the selected folder.
 6. Select the **UNIX slots** or **report** files to archive.
 7. Click **Open**.
 8. Select the **destination folder** for the converted slot/report file(s).
 9. Click **Archive**.

The tool displays a progression bar for the conversion operation as it converts the UNIX slot/report file(s) to PC slot/report file(s) and then archives the converted slot/report file(s) to the specified destination folder, drive or CD.



Convert Only

To convert files only and save them in the native MARS PC slot or report file format, use the following procedure:

1. Launch the **UI UNIX to PC Data Conversion** tool.
2. Click **Change** under **source folder frame** or select **File->Open** . This opens the **File Open** dialog box.
3. If converting data directly from the **\slots** or **\reports** folder on the MARS UNIX workstation, give the **IP address** of the UNIX machine preceded by **** in the **File Name** text box. That is: **\\192.43.12.3**.

NOTE:

You can also use a mapped drive, provided you already mapped it to the MARS UNIX machine.

- If you copied the restored slot files or reports to a network share, provide the **UNC** path to the share, **\\<computername>\<foldershare>**.
 - If you copied the restored files to the system running the conversion tool, you need to provide the path to the folder.
4. If the folder share is restricted, you may be prompted for a **Username** and **Password**.
For a MARS UNIX workstation, these may be the **Username** and **Password** for the MARS UNIX machine.
 5. The tool displays all the slot files and reports available in the selected folder.
 6. Select the UNIX slots or report files for conversion.
 7. Click **Open**.

8. Select the **destination folder** for the converted slot/report file(s).
9. Click **Convert**.

The tool displays a progression bar for the conversion operation as it converts the slot/report file(s) and puts the converted files in the specified destination folder.

Archive Only

You can perform the Archive Only procedure on files that were previously converted. To archive previously converted files, use the following procedure:

1. Invoke the **UI UNIX to PC Data Conversion** tool.
2. Select the **converted slot/report file(s)** in the **File->Open** dialog box.
3. Click **Open**.
4. Select the **destination folder** for the archived slot/report files.
5. Click **Archive**.

The tool displays a progression bar showing the archival progress as it archives the slot/report file(s) to the specified destination folder.

Viewing/Saving the Log

The system creates a new log file each time the tool is launched. The log file continues to append entries as long as it remains open. Once the tool is closed, the log file is deleted. If you want to keep a record of the conversion, save the log file before closing the tool.

1. During conversion or archiving, click **Details**.

The tool expands downward and displays the status log in an edit box.

The tool also displays the number of files selected, the number of files processed, the number of files remaining to process, and the number of files failed in process.

2. Select **File->Save Log**.

A **Save** dialog box opens with a default name **<Logfile Name-Date-Time>.login** in the **File Name** text box. (For example: Log13-May-08-10-44-48.login) .

NOTE:

The file name and date are the actual name, date, and time of saving.

3. Click **Save** to save the log file.

The Conversion Log

Reading the Conversion Log

After completing the conversion, check the log file or display for details on the conversion/archival process. The end of the log displays the summary:

Total x file(s).

Successful Conversion x file(s).

Failed Conversion 0 file(s).

Based on this you get an overview of the conversion's success. For details, look at the log for each conversion. Each file should look something like this:

Copying from \\3.36.24.203\reports\report12.rpt to D:\DOCUME~2\romits\LOCALS~1\Temp\report12.rpt...Done

Converting from D:\DOCUME~2\romits\LOCALS~1\Temp\report12.rpt to D:\DOCUME~2\romits\LOCALS~1\Temp\pcreport.rpt... Done

Moving from D:\DOCUME~2\romits\LOCALS~1\Temp\pcreport.rpt to C:\gemsit\unix2pc\New Folder\report0.rpt...Done

If there any errors, they are logged for each file. The following table displays some of the common errors you may find in the log:

Error	Log Reads:
Selected file is other than MARS files	Invalid MARS data file
Selected slot file is corrupted	File may be empty or corrupted
Disk space is not available in the destination folder	Insufficient disk space
Selected file is already converted to PC format	Already Converted

Checkout Procedure

This section describes the procedure to follow if you want to check the conversion after the **Convert only** workflow. (In case you do not want to check the conversion immediately, you can follow the **Convert and Archive** workflow and later restore from the archive to MARS and check the files.)

Checking the Conversion on the MARS PC

1. Close the MARS application if it is running.
2. Stop all MARS services from the service control panel.
3. Convert the slot files and/or report files to PC format using either the command line or graphical user interface. You can do this on either the MARS PC or on a separate conversion system.
 - It is highly recommended that you convert slots to a destination folder (other than **gemsit\slots**). Though the converted slots are not immediately viewable in MARS, it helps avoid a lot of confusion.
 - The instructions for using the tool to convert slot files are in [“Converting Data” on page 17](#).
4. Check the conversion log for successful conversion and for any errors.
5. Save the log file. See [“The Conversion Log” on page 21](#) for more details on this.
6. Rename the existing **gemsit\slots** folder to **gemsit\slots_backup** and the **gemsit\reports** folder to **gemsit\reports_backup**.
7. Create another **gemsit\slots** folder and a **gemsit\reports** folder.
8. Copy the converted slot and report files to their respective folders under **gemsit**.
9. Start all the MARS services from the control panel.
10. Launch the MARS application.
11. Go to **patient select** and check if all the converted slots/reports are present.

12. For each converted slot, select it and run through **Patient information, Patient diary, Strip review, Page review, Event review, Shape review** and **Episode review** to check if the slot is viewable.

NOTE:

When MARS PC was introduced, the **Detect Horizontal or Downsloping Only** field was added to event definitions for ST segments. If this field is checked on the MARS PC, slot files that are converted from MARS UNIX will erroneously display an ST Depression value of 0. To resolve this, clear the **Detect Horizontal or Downsloping Only** field on the **Patient: Event Definitions Settings and Analysis Results** window. The correct ST Depression value should then be displayed.

13. For each converted report, click on **Report review** to check if the report is viewable.
14. After verifying that the files were converted, do a rollback to return the system to its former state.
 - a. Close MARS.
 - b. Stop all MARS services.
 - c. Delete the slots and reports folder in **gemsit**.
 - d. Rename the **\gemsit\slots_backup** to **\gemsit\slots**.
 - e. Rename the **\gemsit\reports_backup** to **\gemsit\reports**.
 - f. Restart MARS services.



VI Editor

Starting the VI Editor

The command to start the editor is **vi**, followed by **filename**. For example, to edit a file called temporary, type **vi temporary** and then press **return**.

Exiting VI

To exit VI:

1. Press **Esc** and then type **:q**.
2. Type **:w** to save contents of the editor.
3. Type **:wq** to save and exit from the editor.

VI Commands

Command	Action
h	Moves the cursor to the left one character position
l	Enters insert mode; the characters typed in are inserted before the current cursor position. If you specify a count, all the text that was inserted is repeated that many times.
j	Moves the cursor down one line
k	Moves the cursor up one line
l	Moves the cursor to the right one character position
r	Replaces one character under the cursor; specify the count to replace a number of characters
u	Undoes the last change to the file; typing u again will re-do the change.
x	Deletes the character under the cursor; the count specifies how many characters to delete; the characters are deleted after the cursor.
dd	Deletes the whole line



Usage Instructions Using Command Lines

UNIX to PC Command Line

You can run all available functions in the User Interface for the tool from a Command Line. It is recommended that customers use the User Interface provided with the tool to avoid confusion and reduce the risk of errors. The following parameters for command line usage is for GE Healthcare Service personnel.

Usage	
< >	Required parameters
[]	Optional parameters

cmdunix2pc [<-src:Source-Path> <-usr:Username> <-pwd:Password>|<-src:Map-Drive>] [<-ls>|<-conv>|<-arc> [-dst:<Destination-Path>] [-log] [-s:[Save as Location]]

Parameters	Description
-src:Source-Path	Path to remote UNIX system.
-src:Map-Drive	Maps the drive of a remote system.
-usr:Username	Username of the UNIX system.
-pwd:Password	Password of the UNIX system.
-dst:Destination-Path	Path to store converted MARS data files.
-ls	Lists all MARS data files.
-conv	Flag for conversion.
-arc	Flag for archiving.
-log	Displays the log in command line window.
-s	Saves log file at current location.
-s:Save as Location	Saves log file at the specified path.

NOTE:

Use *.nat for slot files and *. rpt for report files.

Listing MARS UNIX Slot/Report File(s)

1. Open a command line window and go to the drive where the Unix2PC tool is installed.
2. Run the **CMDUnix2PC.exe** with the **-ls** option along with **-src**, **-usr**, **-pwd** options.
For example:
CMDUnix2PC.exe -src:\\3.36.24.203\\slots -usr:mei -pwd:mei -ls
This command lists all the slot and report files under the slots folder.

Converting MARS UNIX Slot/Report File(s)

1. Open a command line window and go to the drive where the Unix2PC tool is installed.
2. Run the **CMDUnix2PC.exe** with the **-conv** option:
For example:
CMDUnix2PC.exe -src:\\3.36.24.203\\slots\\seerslot3.s24.nat -usr:mei -pwd:mei -conv -log -dst:<destination path>
This converts the slot file and puts it in the destination folder.
3. For converting multiple slot files, give the following command:
For example:
CMDUnix2PC.exe -src:\\3.36.24.203\\slots*.nat -usr:mei -pwd:mei -conv -log -dst:<destination path>
This converts all slot files in the slots folder and puts them in the specified destination folder.
NOTE:
The converted slot file name(s) are the next available sequence number for the same slot type in the specified destination folder.

Archiving Converted MARS UNIX Slot/Report File(s)

1. Open a command line window and go to the drive where the Unix2PC tool is installed.
2. Run the **CMDUnix2PC.exe** with the **-arc** option and the archive location in the **-dst** option. The **-src** location points to a local folder where converted slots are present. Use the ***.*** option for archiving both reports and slots.

Converting and Archiving MARS UNIX Slot/Report File(s)

For example: `CMDUnix2PC.exe -src:<Converted slots path>*. * -arc -log -dst:<archive path>`

1. This archives all the slot files present in **<Converted slots folder>**.
2. Open a command line window and go to the drive where the Unix2PC tool is installed.
3. Run the **CMDUnix2PC.exe** with the **-arc** option and the archive location in the **-dst** option. The **-src** location points to the UNIX folder where the slots/reports are present.

For example:

CMDUnix2PC.exe -src:\\3.36.24.203\slots*.nat -usr:mei -pwd:mei -arc -log -dst:<archive path>

This converts the slot file(s) from UNIX format to PC format and then archives the converted slot file(s) in the specified archive folder.

Viewing the Log

1. Open a command line window and go to the drive where the Unix2PC tool is installed.
2. Run the **CMDUnix2PC.exe** with the **-log** option.

For example:

CMDUnix2PC.exe -src:\\3.36.24.203\slots\seerslot2.s48.nat -usr:mei -pwd:mei -conv -log -dst:c:\gemsit\slots

This displays the status log, the total number of files selected, the total number of files converted successfully, and the number of files that failed.

Saving the Log

1. Open a command line window and go to the drive where the Unix2PC tool is installed
2. Run the **CMDUnix2PC.exe** with the option **-log** option and **-s** option.

For example:

CMDUnix2PC.exe -src:\\3.36.24.203\slots\seerslot2.s48.nat -usr:mei -pwd:mei -conv -log -dst:c:\gemsit\slots -s

This saves the log file with the file name

Unix2pc<dd>-<mmm>-<yy>-<hour>-<min>-<sec>.log (timestamp) in the current location.

3. To save the log file to a specified location, use the option **-s:<folder path>**.

For example:

CMDUnix2PC.exe -src:\\3.36.24.203\slots\seerslot2.s48.nat -usr:mei -pwd:mei -conv -log -dst:c:\gemsit\slots -s:d:\log

GE Medical Systems
Information Technologies
8200 West Tower Avenue
Milwaukee, WI 53223 USA
Tel: +1 414 355 5000
+1 800 558 7044 (US Only)
Fax: +1 414 355 3790

GE Medical Systems
Information Technologies GmbH
Munzinger Straße 5
D-79111 Freiburg Germany
Tel: +49 761 45 43 -0
Fax: +49 761 45 43 -233

Asia Headquarters

GE Medical Systems
Information Technologies
Asia; GE (China) Co., Ltd.
No.1 Huatuo Road
Zhangjiang Hi-tech Park Pudong
Shanghai, People's Republic of China 201203
Tel: +86 21 5257 4650
Fax: +86 21 5208 2008

GE Medical Systems *Information Technologies*, a General Electric Company, going to market as GE Healthcare.

www.gehealthcare.com