

BioPointe Central for Windows

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INTRODUCTION

A. How BioPointe Central Works

BioPointe Central is used for maintaining and administering BioPointe devices. The BioPointe device is an authentication system specifically designed to provide irrefutable personal identification.

B. Features

BioPointe Central has many distinct advantages:

- Flexible software expandability
- Multiple security levels (supervisor, user or custom)
- Communication via serial, Ethernet or modem
- Verifying status of devices
- Log record reporting
- Log record exporting into ASCII text format
- Time and Date synchronization
- Device Properties configuration
- Central enrolment of the users
- Provides data synchronization between PC and the BioPointe device
- Ease of use

C. Style and Conventions

<u>Icons</u>

Occasionally, an icon will appear in the left margin. Each icon has a specific meaning. The paragraphs that follow identify the icons and their intended use.



NOTE: Notes alert you to information of special interest or provide clarification on the use of a particular feature. Notes supplement standard content and are not required reading.



WARNING: Warnings contain critical information. Failure to read a warning may cause unexpected results from the application.

Terminology and Type

- Fields are referenced by their proper names
- Literal entries (commands and such) appear in **bold**

- Important new terms appear in *italics*
- Optional entries appear in (brackets)



GETTING STARTED

A. System Requirements

You will need the following:

- Pentium PC or compatible
- 32 MB RAM
- 50 MB (minimum) available hard disk space
- CDROM drive
- Microsoft Windows 95/98 ,Windows 2000 or Windows XP
- RS232 or RS485/RS422 (additional adaptor board to convert the RS232 signal to the RS422/RS485 signal is required)

- or -

• 1 network card for Ethernet interface (TCP/IP)

B. Installing BioPointe Central

- 1) Insert the Keri Systems CD into the CD drive.
- 2) The autorun menu will appear.



.....

3) Click on the BioPointe Software and Documentation link. The BioPointe installation window appears.

| 🚰 AutoPlay Menu | | | |
|---|---|--|--|
| Install Software and View Documentation for the BioPointe Fingerprint Reader | | | |
| | Install BioPointe Software | | |
| Install the Enrollment Station Driver %DriverRevText% | | | |
| <i>~</i> } | BioPointe Documentation | | |
| Return to the Main Menu | <mark>varobat</mark> Keri Systems, Inc. © 2004 P/N: 01931-003 Keader | | |

4) Click on the Install BioPointe Software link.

| InstallShield Wizard | | | |
|----------------------|--|--|--|
| | Preparing to Install | | |
| | BioPointe Central v7.1 Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait. | | |
| | Checking Operating System Version | | |
| | Cancel | | |

5) Wait as the InstallShield Wizard prepares to install BioPointe to your system.

| 🔂 Biopointe Central (V7.1) - InstallShield Wizard | | | |
|---|---|--|--|
| | Welcome to the InstallShield Wizard for Biopointe Central (V7.1) | | |
| | The InstallShield(R) Wizard will install Biopointe Central (V7.1) on your computer. To continue, click Next. | | |
| 2 | WARNING: This program is protected by copyright law and international treaties. | | |
| < Back Next > Cancel | | | |

6) Once the Welcome to the InstallShield Wizard window appears, click on the Next> button to proceed. The Software License Agreement appears.

| 🝘 Biopointe Central (V7.1) - InstallShield Wizard | \mathbf{X} |
|---|--------------|
| License Agreement Please read the following license agreement carefully. | |
| BINARY SOFTWARE LICENSE AGREEMENT THIS BINARY SOFTWARE LICENSE AGREEMENT ("Agreement") is made and entered into as of the Effective Date, by and between Keri Systems, Inc., a California corporation having offices at 1530 Old Oakland Road, Suite 100, San Jose, California 95112 ("Keri Systems") and the entity | |
| intending to install the Software Products ("Licensee"). You agree to be bound by the terms of this Agreement by OI accept the terms in the license agreement OI do not accept the terms in the license agreement | • |
| InstallShield | |

- 7) To not accept the license agreement and cancel the installation, click on the "I do not accept" button. The installation program will exit without installing the software.
- 8) To accept the license agreement and continue with the installation, click on the "I accept" button. The destination folder window appears.

| 😼 Biopointe Central (V7.1) - InstallShield Wizard | | |
|---|-------|--|
| Destination Folder Click Next to install to this folder, or click Change to install to a different folder. | | |
| Install Biopointe Central (V7.1) to: C:\Program Files\Biopointe Central\ Cha | nge | |
| InstallShield < Back Next > Ca | ancel | |

- 9) Verify the correct folder is selected for installation. Keri recommends using the default destination folder, but if you need to use a different folder, click the Change... button and navigate to the desired folder for BioPointe.
- 10) Click on the Next> button once the correct folder has been selected. A status window appears showing the progress of the installation.

| 🔂 Biopoin | te Central (V7.1) - InstallShield Wizard |
|------------------------|--|
| Installing The prog | Biopointe Central (Y7.1) ram features you selected are being installed. |
| 17 | Please wait while the InstallShield Wizard installs Biopointe Central (V7.1). This may take several minutes. Status: |
| | (************************************** |
| | |
| InstallShield – | |
| | < Back Next > Cancel |

11) When installation is complete, the InstallShield Wizard Complete window appears.

| 🛱 Biopointe Central (V7.1) - InstallShield Wizard 🛛 🛛 🔀 | | | | | |
|---|--------------------------------|--|--|--|--|
| | InstallShield Wizard Completed | | | | |
| The InstallShield Wizard has successfully installed Biopointe Central (V7.1). Click Finish to exit the wizard. | | | | | |
| | < Back Finish Cancel | | | | |

- 12) Click on the Finish button and the installation is complete and a shortcut is installed on the desktop. You are now ready to use the BioPointe Central program.
- 13) Finally, a Product Registration window appears.

| Product | Registration | | |
|---------|--|--|--|
| ? | Please register your site and products with Keri Systems. Your new security system is critical in protecting your people and assets. It is important that you are kept up to date on the latest information on updates and enhancements. Registration provides us with information for product warranties as well as allowing us to notify you of important announcements. Do you want to register now? Clicking the YES button will send you to our Product Registration Page on the Keri | | |
| | Systems web site. You need to be online for this process to be completed. | | |

- 14) Click on the **No** button to register BioPointe Central at another time. Registration may be concluded through the Keri Systems, Inc. web site at: http://www.kerisys.com/registration/index.asp.
- 15) Click on the Yes button to register BioPointe Central. Your browser program will be open and you will be automatically routed to the Keri software registration page.

| 🕘 Keri Systems, Inc. Produc | t Registration Form - M | Aicrosoft Internet Explorer | | |
|---|--|------------------------------|-------------------------------|--------------------|
| File Edit View Favorites T | ools Help | | | R |
| G · O · 🖹 💈 | 🏠 🔎 🛧 😪 | Address 🙆 http:// | www.kerisys.com/registration/ | ~ |
| Google - | 🖌 😚 Search Web | • 👰 Search Site 🌸 🛕 🔗 | 🚱 🖞 Search Froogle 🛛 🌠 | PageRanł » 🔁 |
| Entregrand Titanium Integrand Titanium Integrand Titanium Integrand Titanium Integrand Titanium Talaphone Entry | | | | |
| Security Solutions | Resellers/Installers | Technical Support & Training | Company Info & News | Contact Us |
| Search or Browse Your Confidential Product/Site Registration Form Search or Browse Please fill-out and submit the product registration form below! Please note we do not share or distribute this information with anyone. Support Resources Product Registration Details | | | | e we do <i>not</i> |
| > Tech Doc Downloads > Software Downloads > Keri Technical Institute (KTI) > Marketing Doc Downloads > Register Your Products Online | End user of pr (Company/Or First Name: Last Name: Title: | oduct(s) ganization): | colort here at | |
| Contact Our Support Team | Address (Stre | et): | select nere 💌 | |
| e] http://www.kerisys.com/pages/internet-promos/jan-05-promo.asp | | | | |

16) Enter information as requested and submit it when ready.

C. Uninstalling BioPointe Central

For both Windows 95/98 and Windows 2000/XP un-installation processes, the BioPointe Central databases, which comprise the user logon information, user fingerprint database, device configuration and the log records, will be removed from the system. User has to backup this information if needed before starting the un-installation process. Following are the location where all the information is stored.

User Logon Information -- installed directory/data Device Configuration, user Fingerprint Data and Log Records -- installed directory /database

D. Database File in the Install Directory

There are two categories of database file used by the application. These two categories of files are:

- (1) System Data Files These files store the logon information. These files are located at the installed directory/data directory.
- (2) BioPointe Data Files These files store the user information (eg fingerprint template, schedule etc), device information (eg device ID, device configuration etc) and the log information (eg Error log). User should only open the FPUSER.DBF file during the user enrolment process. These files are located at the installed directory/database directory.



System Overview



Encompassed within BioPointe Central are a few databases. The first stores a list of application users. These are people with authorized access to BioPointe Central. With authorized access, the application user can do a variety of tasks:

An application user can enroll new device users (stored in the Device Users database), assign access rights to them (Device Users' Access Rights database) and dispatch them to the respective devices via the communication link.

The fingerprint templates are stored locally in the devices, allowing the device users to perform their authentication or attendance logging locally at the devices.

The application user can also upload these event's logs from the individual devices and store them in an Event Logs database.

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Chapter 4

Basic operation

This chapter gives you quick and concise instructions to perform basic functions in BioPointe Central. You will be charted through this chapter according to the flow diagram below.



A. Log on as Default User

When you start BioPointe Central, you will be prompted to enter the UserID and Password. As this is the first time you are using BioPointe Central, the default UserID is "SUPVISOR" and the Password is "PASSWORD". The words are in capital letters.

| 署 Biopointe Central Ver 7.0 | × | | |
|--|--------------------------------|--|--|
| Exit About | | | |
| Biopointe Central Ver 7.0 KERI SYSTEMS INCORPORATED | | | |
| USERID SUPVISOR PASSWORD STATUS: | Abort Fingerprint Verification | | |
| Copyright @ 1997-200 |)4 | | |

To log on to BioPointe Central:

- 1. Enter "SUPVSIOR" in the USERID box.
- 2. Type "PASSWORD" in the PASSWORD box.



NOTE:

The maximum characters allowed for each entry is 8.

Difference between a Supervisor and a User is that Supervisor has the right to add additional Users or Supervisors. In addition, a Supervisor has the rights to perform all tasks provided by the application.

A First Time User is advised to change the password after this step.

You can also logon using your fingerprint instead of password; the white box on the right will display the captured fingerprint image. The fingerprint unit will need to be plugged into the computer prior to starting BioPointe Central.

B. Change Default Password

For security reasons, you may decide to change the default password ("PASSWORD") to something else.

To Change the Default Password:

| Biopoint | e Central V | ler 7.0 | | | | ٤ |
|-----------|-------------|-------------|-----------------------|------------------------------------|------------|---|
| e Edit D | atabase Acc | User SetUp | | • | | |
| SERID | - | 250 | 2Dan admant | STora Shuthashashas Elas Chat Time | | |
| - Cochine | 1 | - TRANSPORT | THE OPPOSITE CONTRACT | U F | | 3 |
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| | | | SUPVISOR | | [0 Record] | |

- 1. Click **System** from the top menu of the **User Database** screen and then select **User SetUp** by clicking on it.
- 2. The User SetUp screen pops up as shown.

| [ULU040] User SetUp | | X |
|--|---|---|
| Ext First Pilor Next Last First | (ESynUser Browsing) | zi ±i 80 ✓ @ Add Debter Edd Save Cance |
| - User Id 2012/15/02 | Name | |
| Department | Designation | |
| * Profile 5 • (S)upervisor (U)ser | Number of Fingerprint Enrolled : 0 | |
| Password | FingeplintErrolvent | |
| * - Plane do not hant black Note : Supervisor han ALL Rights. | | |
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| KERI | Biopointe Central Ver 6.6 SYSTEMS INCORPORATED | |
| | | |

3. Click the **Edit** button to place the fields to be in the edit mode.

4. Change the password to one that you prefer

C. Create New Application's User

You can create a new application user or supervisor through User SetUp.

To Create New Application's User or Supervisor:

| [UtiU040] User SetUp | | | X |
|--------------------------------|-----------------------------------|-----------------|-------------------|
| Exit [F1] Rights | | | |
| | (bSysUse: Inseting) | | zi zi Bave Cancel |
| * User Id STEVEN | Name | | |
| Department | Designation | | |
| * Profile Supervisor (U)ser | Number of Fingerprint Enrolled : | | |
| Password | Fingespint ZErrolment | | |
| * - Please do not leave blank. | | | |
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|] | | A | |
| KERI | Biopointe SYSTEMS INCORPORATED | Central ver 6.6 | |

- 1. Click the **Add** button to place the fields to be in the insert mode.
- 2. Enter a preferred User Id of the new User or Supervisor in the User Id field.
- 3. Assign the person as a "Supervisor" or "User" in the **Profile** field.
- 4. Enter the person's preferred password in the **Password** field.

D. Create Device Table

This section shows you how to add a Device into the Device Table and perform basic configurations.

The Device Table maintains the list of devices in your BioPointe network system. When you first use BioPointe Central, no devices are listed in the Device Table. You can follow the steps below to add a new Device into the Device Table.

| 🖀 Biopointe Ce | ntral Ver 7.0 | | | |
|------------------|-------------------|--|--|--|
| File Edit Databa | se Acquire System | n Tools Fingerprint Scanner Database Path Setup | H - F H & = | |
| | vik ID StName | User Management System Modern Connection System Device Log Management System Device Log Management System Card Reader Configuration Explay Date Configuration Card Data Import Import User Information Export User Information | gadmerk [15pe] SAuthenication Flag Start Time U F | |
| | | | | |
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| | | | | |

To add a new Device into the Device Table:

- 1. Click Tools from the top menu and select **Device Management System** from the drop-down menu.
- 2. The **Device Management System** screen pops up as shown.

| Device Manag Modem Conn | pement System rection | | | | | 1 |
|----------------------------|--|--------------------------|-----------------------|-----------------------|---|---|
| Log Report | 🕞 Log Export | 📸 Iime/Date Settings 🛛 🖪 | Set Device Properties | Cet Device Properties | Device Cognection Setup | |
| Device Table | : Location I Seath Gate ection Table : COM Type Teleph | Status | P Address TCP F | Device Information | on \$25 E.St. #5 Deleted T X Encol | |
| Poll Device | e / Upload Device Log P vice C Device | ile ID: 1 | | 器 Pol Device | ▼ E Upload | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

- Click the Add button on the Device Information group box.
 Enter the Device ID in the Device ID field. You can optionally enter the location of your device in the Location field.
- 5. Click the **Save** button to save the device information.

6. To change the communication settings, click the **Device Connection Setup** button. The Device Connection Setup menu will pop up as shown.

| Device ID : Telephone No. : Ethernet IP Address : Ethernet Port :0 | 1 | Communication © Serial Co © Ethernet © Modem C | n Channel mmunication Communication |
|---|--------------------|---|---|
| COM 1 C COM 2 C COM 6 C COM 7 | С СОМ 3 С СОМ 8 | C COM 4 C COM 9 | С СОМ 5 С СОМ 10 |
| Baud Rate C 1200 C 2400 C 4800 | C 9600 C | 14400 🔿 19 | 3200 ⓒ 38400 |

7. You can change the communication settings from here. When you have completed making changes, click "**Save Configuration**" to save the settings.

After you have setup the device table, you can proceed to check the connectivity of the device by execute the polling command to the device. This will ensure that there is a physical connection between the Device and your PC.

- 1. In Device Management System, Click the Poll Device button.
- 2. A message box will pop up asking you whether you want to continue with the polling. Click Yes.
- 3. If the polling is successful, an **ON** status will be reflected. If it is not successful, an **OFF** status will be shown after a short while.

| Device Ta | bie : | |
|-----------|--------------|--------|
| DEVICE | ID Location | Status |
|) | 1 SOUTH GATE | ON |



NOTE:

The *Status* is only valid after user has executed the poll command to the device connected. Therefore, if user exits from the device management system and comes back later, the status will show "off". This does not mean the device is not connected physically. To obtain the connection status, user needs to execute the poll command to update the status.

Under the Poll Device/Upload Log File group box, there are two radio-buttons, "All Device" and "Device ID". You can poll one device at a time or all the devices simultaneously if you have several devices connected, by selecting the appropriate radio-button first.



WARNING:

All devices configured in the system must have a unique Device ID. The Device ID should be the same as the device ID configured in the device for serial communication channel. Please refer to the BioPointe User's Manual on how to configure the device ID for this type of channel. In addition, the report generator will base on the device ID for report generation.

E. Create Device User Records

This process is also known as enrollment, where you can enroll new device users. By device users, we are referring to the users who would be performing their fingerprint authentication at the Device.



NOTE:

Each user must be enrolled separately in BioPointe Central and Keri Systems' *Doors* program. For information on enrolling users in *Doors*, refer to the <u>*Doors*</u> Users Guide (P/N 01914-100).

To create a new Device User record:

1. If you were not in the User Database main menu, you would need to return to it. The menu is as shown below:



| 0 | *USERID | %Link ID | %Name | %Department | %Type | %Authentication Flag |
|---|---------|----------|-------|-------------|-------|----------------------|
| × | 10 | | | | U | F |
| | | | | | | |

.....

3. The **UserID** field is filled in with a default ID that increments every time a new record is created. You can change the ID to the desired ID of the user whom you are adding.



NOTE:

The *Type* field refers to whether the device user record is to be assigned as a normal *User* or a *Master*. By default, this field is filled as a *User*

• The Authentication Flag field refers to the method of authenticating this user. By default too, this field is filled as *Fingerprint*.

The optional fields are the Link ID, Name and Department

During the log record export operation, if the *Link ID* for a particular user record is not empty, then this *Link ID* information will replace the *USERID* information. This is especially useful if user want to co-relate the *USERID* to the *Link ID*.

- 4. Click the Save button to save the settings you have made for this user record.
- 5. You have now created a Device User record. However, no fingerprint(s) has been enrolled for this user yet. You can note this by an icon displayed at the bottom left hand of the User Database menu. For this user you will see a cross over a fingerprint image implying that no fingerprint(s) has been enrolled for this user.
- 6. To enrol the user's fingerprint(s), click this button found on the task bar while the database pointer is pointing to this user record. This leads you to a menu box shown below.



- 7. Select Enrol / modify fingerprints since we are performing an enrollment and click OK.
- 8. You will see the **Fingerprint Enrollment** / **Verification Center**. Follow the instructions from the instruction screen to perform your enrollment.

| Image Quality |
|--|
| Please select the finger to be enrolled. |

- 9. You will see the **Fingerprint Enrollment / Verification Center**. The instructions from the instruction screen will guide you in your enrollment. We would like you to take note that:
- Each enrollment of a finger requires 2 image scans.
- Between each image scan, you need to lift your finger and place it back onto the enrollment scanner again.
- The Image Quality of each scan has to be greater than 80% in order for the scan to be accepted.
- When the 2 instances of scan are successful, the **Verify** button will be highlighted to ask you to do a verification of the finger you have just enrolled.
- When the verification is also completed, you may click **Exit** to begin saving the fingerprint you have just enrolled and exit, or you may wish to go on to enroll another finger before exiting.



NOTE:

Maximum number of fingerprints allowed for each User

Each user can enroll up to 3 fingerprints. This is indicated by the 3 selections in the *Registered Finger* group box.

10. Upon clicking on **Exit**, you will be asked whether you really want save the record. Click **Yes** to proceed.



F. Assign User Access Right to a BioPointe Device

Once the user has been given access rights to a specific device, that user is ready to access the device locally.

To assign user access right to a device:

- 1. Click Tools from the top menu and select User Management System from the drop-down menu.
- 2. Select the Add page on the left pane, Click it to add the selected device Id into the Selected Devices List box.



3. Click to move the multiple-select User Ids into the Selected User List

NOTE:

To select multiple user ids from the FP User List, press the "CTRL" key and left mouse click on the item to be selected. The currently selected item will have icon as shown.

| User Managemer E <u>x</u> it | nt System | | | |
|---------------------------------|---|---|---|------------------------|
| User Mai | nagement System | | • A | uthentication Property |
| Device List : Device ID 1 | Location | 🔽 Select All 📐 | Add Edit/Delete Downld Selected Devices List: 001 | and Upload Batch Ops |
| FP User List : | (System Date format : dd/MM/yyyy) Nane User1 User2 | Select All Department Type/Flag Account U F Account U | Selected Users List: 0001 0002 | Clear |
| Filter by : • Sort by : • | All C No Access Rights C Enroll Date : User ID C Name C Type C | ✓ 777 · 777 · 777 | | Saye O Cancel |
| Find : USE | ERID 🔽 | | <u></u> | |

4. Click **Save** button to commit changes.

G. Transfer User Records to a BioPointe Device

When you have created some Device User records, the next step is to transfer the User records to the Device. The process of transferring data from PC to Device is known here as **Download**. This section shows you how to download User records to the Device.

To download user records to the device:

1. Select **User Management System** from the Tools drop-down menu. Upon doing so, you will see the User Management System screen as shown below:



- 2. Select **Download** page.
- 3. Check the **All** check box to select all the users in the user's list for download operation or select the specific user in the user's list box. To select multiple users, mouse click on the user with the "Ctrl" key press down.
- 4. Click **Download** to start the download operation.



NOTE:

If the *partial* option selected, the application will only download user record that has not been downloaded before. (ie. user record with "downloaded" status with be skip).

Chapter 5

Advance Features

This chapter describes the advance features provided by the BioPointe Central package. These features assist the administrator to distribute user records efficiently. In addition, it also allows the administrator to upload device log records from the device and store into the event log database. From the event log database, the software provides the function to export the data into ASCII text file to a third party data crunching software application.

A. BioPointe Central Administration

Two types of user profiles are supported by the BioPointe Central application. One of them is the "Supervisor" profile and the other is the "User" profile. Administrator with "Supervisor" profile has all the rights to perform any task provided by the application. Administrator with the "User" profile can has restricted access to some of the tasks provided by the application.

The default authentication method for the administrator during application logon is password authentication. However, the authentication method can be converted to use fingerprint. If the BioPointe device is configured to use secure communication mode, then the administrator is require to use fingerprint during application logon. This is because the same fingerprint template used during the application logon will also be used for the secure communication session. Please refer to the BioPointe manual on how to enable the secure communication mode in the BioPointe device.

"User" Profile access restriction setting

To configure the access restriction:

(1) Click **System** from the top menu and select **User Setup** from the drop-down menu.

| [UtiU040] User SetUp | | [6] × |
|--|------------------------------------|--|
| Exit First Price Next Last Find | [IbSysUser: Browsing] | ti t |
| User Id SURVISOR | Name | |
| Department | Designation | |
| * Ptolile S 💌 [S]upervisor [U]ser | Number of Fingerprint Enrolled : 0 | |
| Password | Fingesprint | |
| - react or rot early ben. Note : Supervisor has ALL Rights. | | |
| | | |
| | | |
| | | |
| | Biopointe Central Ver 6.6 | |
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- (2) Click the Edit button to open the fields for edit mode.(3) Click the Add button. The following dialogue box will be shown:

| 🔁 [UtiU040] User SetUp | | |
|--|--------------------------------|-------------------------------|
| Egit [F1] Rights | | |
| Image: Weight of the second secon | [tbSysUser: Editing] | ZI II Câ Add Delete Edit S |
| * UserId TEST | Name | |
| Department | Designation | |
| * Profile U 💽 [S]upervisor [U]ser | Number of Fingerprint Enrolled | : 0 |
| Password | Finger Print 62 Enrolmer | ıt |
| * - Please do not leave blank. | | |
| Access Id Manu Description | | |
| Meessing Mend Description | | |
| | | |
| | | |
| | A 44 | |
| | Delete | |
| | | |
| | | |
| | | |
| <u> </u> | | |

(4) Right click within the **RESTRICTIONS** and select **Add** to add the restriction entry.

| Ē | 署 Search Access Menu Ids 🛛 🛛 🔀 | | | | | |
|---|--------------------------------|---|---------------------|--|--|--|
| L | ist Order: | Access Id | √ <u>0</u> K | | | |
| s | earch: | Next | 🗶 <u>C</u> ancel | | | |
| | | , <u>, , , , , , , , , , , , , , , , , , </u> | | | | |
| | Access Id | Description | ~ | | | |
| Þ | 1000 | File | | | | |
| Γ | 2000 | Edit | | | | |
| Γ | 3000 | Database | | | | |
| Γ | 4000 | Acquire | | | | |
| | 8000 | System | | | | |
| | 9000 | Tools | | | | |
| | 7000 | Fingerprint Scanner | ~ | | | |

(5) Select the features by double clicking on the Access Id and click OK to commit the change.



NOTE:

Only users with USER profile can have restricted access. User with the SUPERVISOR profile has all accessed right. Therefore, the access restriction cannot be configured.

Convert the logon authentication using fingerprint

To change the logon authentication:

(1) Click System from the top menu and select User Setup from the drop-down menu.

| [UtiU040] User SetUp | | | _ @ X |
|---|------------------------------------|-------------|------------------------|
| Exit First Price Next Last Find | [bSysUser: Browsing] | ₹ 1 | Delete Edt Save Cancel |
| · User Id SURVISOR | Name | | |
| Department | Designation | - | |
| * Profile 5 💌 [S]upervisor [U]ser | Number of Fingerprint Enrolled : 0 | | |
| Password | Fingerprint del Errolment | | |
| * - Please do not leave blank. Note : Supervisor has ALL Rights. | | | |
| | | | |
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- (2) Click the **Edit** button to open the fields for edit mode.
- (3) Click the **Enrollment** button to start the fingerprint enrollment process.
- (4) Upon completion on the fingerprint enrollment, click the Save button to commit the change.
- (5) Click **Exit** to quit.



NOTE:

If the Biopointe device has enabled the secure communication mode (ie master fingerprint template needs to be sent over to the device before any command will be accepted by the device), the application will automatically send this fingerprint to the device for authentication. Therefore, if the logon user did not register into the Biopointe device as master user, he will not be able to execute any command to the device except the poll command.

B. Device Management System

The Device Management System provides the following advance features:

- (1) Device date/time setting.
- (2) Device parameters setting.
- (3) Upload device event log records.
- (4) Export uploaded event log records.
- (5) Event log records report

Device date/time setting

This feature allows administrator to synchronize the PC system time with the Biopointe device time.

Under the Device Management System, click Time/Date Settings.

| Device Table : Device Information Image: Device ID image: Devic | Log <u>N</u> epon | E Tog Export | To Date/Lim | e Settings | Set Device Propertie | es <u>∎</u> ≉ <u>u</u> etDe | vice Properties | Device Lognection 5 |
|--|---------------------------|---|--------------|-------------------------|----------------------|-----------------------------|---|--|
| Device Connection Table : | Device Table | Location | | Status OFF | | | Device Informatic → Add ! Device ID : Location : | n Vi Edit <u>ti D</u> elete N. 1 |
| Poll Device / Upload Device Log C All Device C Device ID : 1 State Device Device D Upload | Device Conno DEVICE ID | ection Table : COM Type Telep L S | phone no. Po | rt Baud Rate 1 38400 | P Address 1 | CP Port 0 | 1 | |
| | Poll Device | / Upload Device Lo vice C Devi | ce ID : 1 | | | | 8 Poll Device | |

Time/Date Settings

You can use this command to synchronize the time and date of a certain device with the PC.

| Pate/Time Setting System | | X |
|--------------------------|---------------------------|---------------------|
| Device ID : | Get ! | * |
| Device Date : | Device Time : | Device Day: |
| System Date : 11/06/2001 | System Time : 12:01:57 PM | System Day : Monday |

To read and set device time and date

- (1) Select Device ID.
- (2) Click **Get** button to read the date and time from the device.
- (3) Click to download the new date and time (PC's system date and time) into the device.
- (4) Click to exit.

Device parameters setting

When a new device is added, the default device parameters will be created and saved into the database. This feature allows administrators to edit the device parameters and save it in the database. The saved parameters can then be downloaded to the devices. In addition, the application provides the function to compare the parameters that is downloaded to the device with the parameters saved in the database. Users can also backup the device parameters by uploading the device parameter settings and saving into the database.

To download the device properties and store the database to the device:

- (1) Click Set Device Properties
- (2) Select the Device ID.
- (3) Select and enter the correct settings for individual parameter.



NOTE:

If a BioPointe with Prox unit is in use, the "User ID - No of Digit" field <u>MUST</u> be changed to "5" for each device that will use cards.

| vice Propertie | 90 | | | |
|--------------------|------------------------------|---------------------|-----------------------------|---------------------------------|
| ownload St | atus: False | | 2.4 | 🐉 Copy 🖌 Update to Database 🏼 🍣 |
| wice III I | All Device Properties | of Device ID : 1 | | |
| 001 - S | Properties Advance Propertie | es | | |
| 002 - R 003 - C | Harrison Harrison In | | No. 1 | |
| 013 - | User ID - No. of digit : 15 | Device First | Time format | Verification Ontion |
| | C Disable unification | C DD MH KOW | G 12 hour made | Multiple FP Verification |
| | C Enable verification | C MM/DD/CCYY | C 24 hour mode | • 1 C 2 C 3 |
| | Door Control | | Wiegand format Wiegand : | PIN Only Verification |
| | Open Duration : 1 | | | ⑦ Disable |
| | Boor Control | Alarm Control | 26 BITS STANDARD · | Auxiliary Device |
| | Disable | C Disable C Enable | Wiegand Out | Disable |
| | | | Oisable | External Input Type |
| | C Always Lock | Door switch sensing | C Enable | Disable |
| | C Always UnLock | C Disable | C TS Controller | Schedule Group Mode |
| | C By Schedule | Normally Open | Site Code : | Schedule Mode Group Mode |
| | | Normally Closed | Land Code : 0 | System setting : Schedule |
| | | | | |

- (4) Click **Save** button to save changes into the database.
- (5) Click to download the new configuration to assigned device.
- (6) Click to exit.

Or

- (2) Select multiple device IDs.
- (3) Click to download the new configuration to assigned device.
- (4) Click to exit.

The **Copy** option allows you to copy the configuration of a device to multiple devices based on the configuration stored in the database. Note: This only copies the configuration, its does not update the device based on the new setting. The user has to manually download the modified configuration to those particular devices.

| E Copy | |
|--------|---|
| Exit | Device ID : 1 Copy to : All Device Selected Device ID : Clear All 002 003 Save |

To Copy from device to multiple devices:

- 1) Select the source device and then click on the "**Copy**" Button from the Set Device Properties module.
- 2) Select the target devices from the device Table and click on the 🖻 to put the selected devices into the selected device list.

Click on "Save" button to save the source device properties to all the selected target device properties resided in the database.

To upload device properties from the device:

| | | | Synchronisation |
|--|--|--|--------------------------|
| All Device ID selected | | | |
| Properties Advance Propertie | es | | |
| User ID - No. of digit : 4 | Device Firm | nware Version : | |
| Time Zone | Date format | Time format | Verification Option |
| C Disable verification | C DD/MM/CCYY | C 12 hour mode | Multiple FP Verification |
| C Enable verification | C MM/DD/CCYY | C 24 hour mode | C1 C2 C3 |
| Door Control | | - Wiegand format | PIN Only Verification |
| Open Duration : | | Wiegand : | C Disable C Enable |
| Deer Centrel | Alarm Control | | - Auxiliary Device |
| | Charles Contraction Contraction | | |
| C Disable | C Disable 🛛 C Enable | Wiegand Out | |
| C Disable | C Disable C Enable | C Disable | External Input Type |
| C Disable | C Disable C Enable | C Disable C Enable | External Input Type |
| C Disable C Always Lock C Always UnLock | C Disable C Enable Door switch sensing Disable | Wiegand Out O Disable C Enable C TS Controller | External Input Type |
| C Disable C Always Lock C Always UnLock C By Schedule | C Disable C Enable Door switch sensing Disable C Normally Open | Wiegand Out C Disable C Enable C TS Controller Site Code : | Schedule/Group Mode |
| | | | |

To use upload device configuration feature:

- 1) Select Device ID.
- 2) Click **Get** button to see the device current settings.
- 3) Click to exit.

To use the synchronization feature:

- 1) Select Device ID.
- 2) Click **Synchronization** button to perform a data comparison between the device configuration data stored in the database and the device configuration data stored in the device. At the end of the operation, a report will be generated if there are any differences. If there is no difference, the message "no record" will be displayed.
- 3) Click to exit.

To backup the device parameters setting:

- 1) Select Device ID.
- Click button to upload the device parameters from the device and save the uploaded information into the database.
- 3) Click to exit.

| Properties | Options | Description |
|---------------------|-------------------|---|
| User ID | 3 – 10 | # of user digits used as the User ID. When using a card, |
| | | this MUST be set to 5. |
| Date format | DD/MM/CCYY | Set the date format of the device. Eg. 25/02/2003 or |
| | MM/DD/CCYY | 02/25/2003 |
| Time format | 12 hour mode | Set the time format of the device. 12 hour mode - |
| | 24 hour mode | hh:mm:ss tt time format. 24 hour mode – HH:mm:ss time format |
| Multiple FP | 1 – 3 | Device allows one to three Fingerprint verification. |
| Verification | | |
| Pin Only | Disable | Once this option is enabled. The device only allows PIN |
| Verification | Enable | Only verification. It does not require fingerprint or card. |
| Wiegand | 26 bits – 40 bits | The types of wiegand format. |
| Wiegand out | Disable | Refers to the wiegand data is being sent out to the external |
| | Enabled | controller upon a successful authentication. TS Controller |
| | TS Controller | option meant Biopointe controller not other vendor |
| | | external controller. |
| Site Code | | The two parameters that existed in the format of the |
| Land Code | | contactless card. |
| Auxiliary Device | Disable | These reader options are auxiliary devices supported by |
| | Legic | Biopointe. An example of a use of such an input device is |
| | Mifare | to read in the ID of the associated card instead of using the |
| | Barcode | keypad. |
| | Magstripe | |
| External Input Type | Disable | An external sensing is provided by Biopointe to detect the |
| | Wiegand Ack | occurrence of a specific event. These types of events that |
| | One-To-Many | can currently be detected and supported by Biopointe |
| | Station locking |] |
| | Switch To Card | |

Device properties

| Properties | Options | Description |
|------------------|---------|---|
| Verify level | Normal | The security verification level of the fingerprint scanner. |
| | High | Either normal security or high security |
| One to Many | Disable | Enabled to let user do one to many verification of the |
| | Enable | fingerprint. Eg. User just verifies once without keying |
| | | his/her user id, the device will auto search for his/her user |
| | | record and verify that this user is accessible. |
| TA Mode | Disable | N/A. Leave at default. |
| | Enable | |
| Trace Log | Disable | The device will log all the options and functions a |
| | Enable | user/administrator has done with the device. |
| Fail attempt Log | Disable | Enabled to log the failed authentication of a user access the |
| | Enable | device. |
| Numeric Keys | Disable | Disable to prevent the usage of the keypad. |
| | Enable | |

Device advance properties
Upload event log records

To upload device log records:

- (1) Click Tools from the top menu and select **Device Management System** from the drop-down menu.
- (2) Select the device to be uploaded by clicking on the device in the Device Table list box.

| E Device Management System | X |
|---|---|
| Exit Modem Connection | |
| 🕼 Log Report 🚯 Log Export 📸 Date/Time Settings 💽 Set Device Properties 📑? Get De | evice Properties 🛛 ᆶ Device Co <u>n</u> nection Setup |
| Device Table : DEVICE ID Location Status 1 OFF 2 . | Device Information |
| DEVICE ID COM Type Telephone no. Port Baud Rate IP Address TCP Port 2 S 1 38400 0 0 | |
| Poll Device / Upload Device Log All Device C Device ID : 2 | 8월 Poll Device 🔳 Upload |

- (3) Click **Device ID** to upload event log records from the selected device only.
- (4) Click **Upload** to start the device log record uploads operation.



WARNING:

Before you proceed, check your Regional Settings in Control Panel. Ensure that your date style is not set to dd/mm/yyyy or dd-mm yyyy. The date format should not be in character-based. (Eg 12-Jan 2001 ← this is not allowed.)

Export uploaded event log records

The log records stored in the event log database is password protected. However, in order for the third party software application to use the log record data for data crunching (i.e. to generate pay roll report, time attendance report etc), the Biopointe Central application provides the feature that allows user to export the log record data into a ASCII text file. With this ASCII text file, users can easily import the log record into the third party software application.



NOTE:

Most of the third party software (for payroll or time attendance application) support import of data through the ASCII text file.

To start the log export function:

Under the Device Management System, click Log Export.

| Device Mana | gement System | | | | | |
|--------------------------------|--------------------------------------|-------------------------------|-----------------------|------------------------------------|------------------------------|---|
| Log <u>R</u> eport | Log Export | 👸 Date/ <u>T</u> ime Settings | Set Device Properties | <mark>∎?</mark> <u>G</u> et Device | Properties 🍃 | Device Co <u>n</u> nection Se |
| Device Table | Location | Status OFF OFF | | | evice Information | i <u>i</u> Edit tr i Delete ∑ 1 |
| Device Conne DEVICE ID 2 | ection Table : COM Type Tele S | phone no. Port Baud F | Rate IP Address TCI | P Port 0 | | |
| All Device | vice C Devi | ceID: 1 | | ส์โ | <u>B</u> <u>P</u> oll Device | 🖪 Upload |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| | 🖹 Log Export 🛛 🗙 | |
|---------------------------------|--|----------------------|
| | Exit Export Properties Device Log Type All C Time Attendance C Door Status C System Configuration C Failed Attempts | A) Device Log Type |
| | Fill default Field ID No. Digits Default size] Default size] Default size] Destage Des | |
| | Image: Device ID * :3 (3) JOBS/UBSTAGE LOGTIME JUSERID * :7 (10) USERNAME USERID A | B) Export Log fields |
| | Image: Logetype *: _2 (3) Image: Jobcode | |
| | □ JOBSTAGE : | C) Set Delimiter |
| F) Default File | USERNAME :(40) USERNAME :(40) USERNAME :(20) USE | D) Separator |
| [] | Filter: (System Date format: dd/MM/yyyy HH:MM) Filter: Filter: | |
| G) Filter | ** Valid for deviceID, UserID logtype To Date : 05/12/2003 23:59 Export Date and Time format User ID : User ID : | H) Export button |
| I) Export Date and Time format. | Date-tormat: Idd/MM/yyyy Image: Clear Time Format: Image: Clear | |

Following section provide a full description on all the functions provide by the export log interface.



C

Reset all the log fields into the original position. Clear the export log fields. (User need to add in the export log fields again.)

Add \boldsymbol{ALL} the log fields into the export log field list. (All the fields will be exported.)



Add the **Selected** log fields into the export log field list. (Add some of the selected log fields for exporting.)

Remove the **Selected** Export fields from the export list into the log field list. (Remove selected field from exporting)



Remove **ALL** Export fields from the export list into the log field list. (No fields are to be exported.)



Move the selected Export Field to the first position of the export list. (The first field to be exported.)



Move the selected Export Field forward.



Move the selected Export Field downward.



Move the selected Export Field to the last position of the export list.

Export All Data of the fields in the Export list into a ASCII text file.



Clear all the Text values.

A) Device Log Type

Device Log allows you to select which kind of Log information is to be exported namely: All, Time Attendance, Door Status, System Configuration and Failed Attempts. Please refer to Log Report for the definition of the type of logs. The default setting is All Log where all the 4 types of Log information are to be exported.

B) Export Log List

Export Log List allows you to select the fields of the information that is to be exported. All the Log fields are listed in the Log Fields List. You can add the fields of interest from this list to the export list or remove the unwanted field from the export list. You can also arrange the position of the fields in the Export List so that the data will be exported according to the position of the fields listed.



The first field on the top of the export list is the first field to be exported.

C) Set Delimiter

NOTE:

When the Delimiter option is enabled, the character fields that are exported into the ASCII text file will be enclosed with a double quotation mark. If the option is disabled, the double quotation marks will not be present. (Eg. Field1, "Field2", "Field3", "Field4" where field2, field3 and field4 are character fields.)

D) Separator

Separator option allows you to choose which kind of separator that the ASCII text file has. A Separator Character separates the fields in the ASCII text file. There are 3 kinds of separators provided in this option namely *Comma*, *Fixed* and *Other*.

Comma separator separates the field with a comma (,). Eg field1, field2, field3, field4, field5

Fixed separator separates the field using fixed field length. Please refer to the Appendix B: Log Field Table for the field size. Eg field1 field2field3 field4 field5

Other separator separates the field with a user-defined character. Eg. Selected Other: &. The txt file: field1&field2& field3&field4&field5



NOTE:

When the fixed separator selection is chosen, fields will be separated based on the defined size for each field in the Fill Default Box. The size defined for each field will take its respective default value if the checkbox is not checked for that particular field. On the other hand, if the checked box is checked, the size defined for the field will take the user entered value.

E) Fill Default

Fill Default option allows you to control the size of the exported fields. When the checkbox for any field is checked, the system will use this field size defined by the user. This field size must be enough to avoid any truncation of the data for that field. For example, if the field size is less than the total length of the data, the data will be truncated in the exported file. However, if the field size is more than the total length of the data, the data, the data will be preceded with spacing. Take note that, this will apply for all the fields except for USERID field where it will be preceded with zeros instead of spacing.

F) Default File

Default File option allows user to set a default export text file in the selected directory. When the checkbox is checked. The system will automatically overwrite the selected file with exported data. If the checkbox is not checked, the system will always prompt user for the directory and filename before exporting the data.

G) Filter

Filter option provides the user with a way to filter unwanted data before exporting the data into the text file. The user can filter the data according to log date/time range, user id range and device id range. For keying a date range, you have to follow the system date format. You can double-click to pick a date from the calendar.



NOTE: The date filter does not support system date format : dd-mm-yy. (Eg:01-Dec-00)

H) Export Button

Click **Export** button to export the log data into an ASCII text file.

Below is a sample of the exported log file in ASCII text format with comma separator.

DeviceID,LogDate,LogTime,UserID,LogType,LandCode,SiteCode,User Name,Department,Description

2,02/08/2000,17:30:40,0,24,0,0,,,Door switch open 2,02/08/2000,17:30:52,0,161,0,0,,,Setup Mode exit status 2,02/08/2000,17:57:07,2222,1,0,0,User1,,,Attendance-in 2,02/08/2000,17:59:59,2222,1,0,0,User1,,,Attendance-in 2,02/08/2000,18:00:22,2222,1,0,0,User1,,,Attendance-in

I) Export Date and Time format

Select which kind of Log Date and Log Time format to be exported into the text file.

Event Log Records report

Under the Device Management System, click Log Report.

| E Device Management System | X |
|---|---|
| Exit Modem Connection | |
| 😰 Log Report 🕒 Log Export 📸 Date/Iime Settings 🗈 Set Device Properties 📑? Get D | evice Properties 🛛 🐊 Device Co <u>n</u> nection Setup |
| Device Table : DEVICE ID Location Status 1 OFF 2 OFF | Device Information |
| Device Connection Table : DEVICE ID COM Type Telephone no. Port Baud Rate IP Address TCP Port 2 S 1 38400 0 | |
| Poll Device / Upload Device Log C All Device C Device ID : 1 | 着 Poll Device 📱 Upload |

There are 4 types of log reports

Time Attendance

This report refers to a log record with status ranging from 0x01 - 0x06. It shows all the user's logging in and out of the device.

Door Status

This report refers to a log record with status ranging from 0x10 - 0x1F. It shows the status of the door at the time the user is accessing the device.

System Configuration

This report refers to a log record with status ranging from 0x30 - 0xC0. It shows the trace log and the log of all supervisors' accessing the setup mode of the device.

Failed Attempts

This report refers to a log record with status ranging from 0xE7 - 0xEC. It shows the transaction log when the user fails to obtain a successful authentication with the device.

Please refer to Appendix A for the interpretation of log record status.



NOTE:

Each report displays the following fields: Date, Time, Device ID, UserID, Link No., User Name, Department, Land Code, Site Code and Access Mode Status. If the device trace function is turned off, no Door Status and System Configuration Log record will be generated by the device. Please refer to the Biopointe User Manual on how to turn on/off the trace function.



Icons

Generate selected type of report based on the filter setting.



1

Clear

Beport

Purge selected type of record in the database based on the filter setting



Clear all filters range setting.

Exit from the report generator

To generate report

- (1) Select type of log report.
- (2) Check the filter checkbox if filtering is needed and enter the range. Otherwise all records will be displayed.
- (3) Click **Report** button to view.

| Prev | view | | | | | | | | | |
|------|------------|-----------|-----------|--------|-----------|-----------------|-----------|----------|-----------------|--|
| 1 | 9 14 - | • • | н 😹 | 8 | 🖌 🖆 🔤 | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | Tim | e Attendance Lo | og Report | | | |
| | Date | Time | Device ID | Useriū | Usor Namo | Denartment | LandCode | SiteGode | Status | |
| | 27/04/2000 | 14:12:01 | 1 | 071 | | | 0 | 0 | Allendance-in | |
| | 27/04/2000 | 14:12:09 | 1 | 071 | | | 0 | 0 | Alle eda noz-in | |
| | 27/04/2000 | 14:10:02 | 1 | 371 | | | 0 | 0 | Atle eda noz-in | |
| | 27/04/2000 | 14:10:10 | 1 | 371 | | | 0 | 0 | Alle ada noz-in | |
| | 27/04/2000 | 14:10:18 | 1 | 371 | | | 0 | 0 | Allenda nce-in | |
| | 27/04/2000 | 14:14:47 | 1 | 071 | | | 0 | 0 | Alienda noe-in | |
| | 27/04/2000 | 14:14:55 | 1 | 071 | | | 0 | 0 | Ate eda noe-in | |
| | 27/04/2000 | 14:16:4S | 1 | 371 | | | 0 | 0 | Alle nda nce-in | |
| | 27/04/2000 | 14:16:53 | 1 | 071 | | | 0 | 0 | Allenda nce-in | |
| | 27/04/2000 | 14:21:07 | 1 | 371 | | | 0 | 0 | Allendance-in | |
| | 27/04/2000 | 14 22 .08 | 1 | 071 | | | 0 | 0 | Atenda noe-in | |
| | 27/04/2000 | 14:22:25 | 1 | 071 | | | 0 | 0 | Allenda noe-in | |
| | 27/04/2000 | 14 22:00 | 1 | 371 | | | 0 | 0 | Allenda noe-in | |
| | 27/04/2000 | 14 22:39 | 1 | 071 | | | 0 | 0 | Atie eda ece-in | |
| | 27/04/2000 | 14:28:46 | 1 | 071 | | | 0 | 0 | Ate eda noz-in | |
| | 19/05/2000 | 17:16:02 | 1 | 1650 | | | 0 | 0 | Alle nda noe-in | |
| | 19/05/2000 | 17:16:52 | 1 | 1650 | | | 0 | 0 | Alle nda nce-in | |
| | 19/05/2000 | 17:18:27 | 1 | 1650 | | | 0 | 0 | Atenda sceris | |
| | ****** | 17.10.40 | | 40 en | | | ^ | 0 | Avenderen le | |

.....

To purge log records

- (1) Select which type of log report you want to purge.
- (2) Check the filter checkbox if filter is needed and enter the range. Otherwise all log records will be deleted.
- (3) Click **Purge** button to remove the records from uploaded log.



WARNING: Purged data is not recoverable. Make sure that the Windows system has the appropriate printer driver installed or else the report preview may not function properly.

Log Export

This command allows the user to export the uploaded log records into a file in ASCII text format. It provides the user with variable ways to export the log information.

Log Field Table :

| Definition | Size | Description |
|-------------|------|--|
| Device ID | 3 | ID of the device. All devices connected in the chain should have unique ID |
| LogDate | - | Date of the Log record. (Size according to the format selected.) |
| LogTime | - | Time of the Log record. (Size according to the format selected.) |
| UserID | 10 | User ID or Card ID for user accesses through card/fingerprint. For log record related to |
| | | the system configuration, the ID will be zero. |
| LogType | 3 | Log record status value. Please refer to Appendix A for all the supported status. |
| JobCode | 7 | This value is valid only if Work in Progress Mode in the Biopointe Device is enabled. |
| JobStage | 2 | This value is valid only if Work in Progress Mode in the Biopointe Device is enabled |
| JobSubStage | 2 | This value is valid only if Work in Progress Mode in the Biopointe Device is enabled |
| UserName | 40 | The user name that is located in the user database. This is only valid for the full |
| | | version of the Biopointe Central. |
| Department | 20 | The department that is located in the user database. This is only valid for the full |
| | | version of the Biopointe Central. |
| Description | 150 | This is the description of the log record status. |



NOTE:

For the Biopointe Central application, if there is a value in the Link ID field in the User database, the LINK ID field value will overwrite the value in USERID field during log export process.

C. User Management System

The user management system provides the following advance features:

- (1) Batch download of user records to multiple devices.
- (2) Batch delete of user record from multiple devices
- (3) Upload user records from a device and update to the device user database.
- (4) Combine access right assignment and record download in one operation.

- (5) Duplicate device users' access right records for multiple devices.
- (6) Device users' access right cross check.
- (7) User records cross check.
- (8) Error log report.

Batch download of user records to multiple devices

To perform a batch download of user records to multiple devices:

(1) Select **User Management System** from the Tools drop-down menu. Upon doing so, you will see the User Management System screen as shown below:

| User Management System Egit | | | | |
|---|---|----------------|---------------------------------|-----------------|
| User Manageme | nt System | | • Authenticati | on Property |
| Device List : Device ID Loc | ation | 🗂 Select All 📐 | Add Edit/Delete Download Upload | Batch Ops |
| | | | LUSERID Type Status | Download |
| FP User List: (System Date UserID Name User1 2 User2 | format : dd/MM/yyyy) Departm Account Account | Fiselect All | | |
| | | _ | | M ID Compare |
| Films have a Contract | Diskto C Const Data 1 | | | Error Log |
| Sort by : C User ID | C Name C Type C Flag | C Department | Sort by : 10 User ID C Type (| Status |
| Find : USERID | • | <u> </u> | | |
| | | | | |

(2) Click Multi-Dnload.



(3) Select the devices and click **Batch Download**. Note to select multiple devices, press "Ctrl" key together with the left mouse click.



NOTE:

Make sure that the user access rights operation has been completed before this operation can be carried out.

Batch delete of device user record from the device.

This feature allows administrators to remove unwanted user records from multiple devices. In addition, if all the user records have been successfully removed from all the devices, the application will prompt the administrator to remove the user records from the device user database.

To perform a batch delete operation:

- (1) Select User Management System from the Tools drop-down menu.
- (2) Select the **Batch Ops** page.

| levice List : Device ID | Location | 🗖 Select All 🕨 | Add Edit/Delete Download Upload | <u>B</u> atch Og |
|---|---|--|---------------------------------|------------------|
| 1 2 | | | Selected Device List | Dnjoad |
| PUserList: (Sys UserID Nan 1 Use 2 Use | tem Date format : dd/MM/yyyy) ne r1 r2 | Department Type HR U F Account U F | User List All Partial | Error Log |
| Filter by : ⓒ All Sort by : ⓒ Use | C No Access Rights C Enroll I r ID C Name C Type | Date: /// // C Flag C Department | Sort by: © User ID C Type | Clear List |

- (3) Select the device id from the **Device List** and click \ge .
- (4) Select the user id from the **FP User List** and click .
- (5) Check the All check box and Click **Delete** to start the delete operation.

Upload user records from the device and update to the device user database

This feature allows administrators to backup the user records stored in the device to the device user database. There are three ways that the administrator can upload the user records from the device. The first method will enable administrator to upload all the user record from the device. The second method allows administrator select the desire user record to upload. The third method is to query the existence of the user record in the device, if the user is found, this user id can be added to the list and subsequently upload from the device.

Method 1:

- (1) Select User Management System from the Tools drop-down menu.
- (2) Select the **Upload** page.
- (3) Click Upload button to start to upload all the user records stored in the device.

| Jser Management System Egit | |
|--|--|
| User Management System | Authentication Property |
| Device List: Device ID Location Select All 1 2 FP User List: (System Date format : dd/MM/yyyy) Select All UserID Name Department Type Flag 1 UserID Name Department Type Flag 2 UserID Name Department U F 2 UserID Account U F 2 UserID Name Type Flag Type Flag Filter by : • All © No Access Rights © Enroll Date: / / / / C V F Sort by : • User ID< © Name © Type © Flag< © Department Type Type Find : USERID< • • • | Add Edit/Delete Download Upload Batch Ops Selected Device List: USERID Type Status 2 U Uploaded 2 U Uploaded Soft by: © UserID Type C Status Status Cross Cipeck Cross Cipec |

(4) Upon completion on the upload process, select the desired user id from the upload user list and do an update operation to update data into the device user database. To perform the update operation, click on the **Update** button.

Method 2:

- (1) Select User Management System from the Tools drop-down menu.
- (2) Select the **Upload** page.
- (3) Click Get Info button to start retrieving all the user ids stored in the device.
- (4) Select the desire user ids from the retrieved list and click Upload.
- (5) Upon completion on the upload process, select the desire user id from the upload user list and do an update operation to update data into the device user database. To perform the update operation, click on the **Update** button.

Method 3:

- (1) Select User Management System from the Tools drop-down menu.
- (2) Select the **Upload** page.
- (3) Click Query User ID.

| <u>r∋• S</u> earch |
|--------------------|
| |
| |
| |
| |
| |
| |

- (4) Enter the desire user id into the UserID edit box and click Search.
- (5) If the user id is found in the device, click **Add to List**.
- (6) Select the desire user ids from the retrieved list and click **Upload**.
- (7) Upon completion on the upload process, select the desire user id from the upload user list and do an update operation to update data into the device user database. To perform the update operation, click on the Update button.



NOTE:

To delete a user record from one device at a time, the administrator can use the above methods with the *delete* operation.

Combine access right assignment and record download in one operation

Reference to the basic operation procedure of downloading user records to multiple devices, the administrator needs to first assign all the individual users to respective devices (assignment of access right to device) before a batch download operation can be carried out. However, if all the devices should have the same user records, then the administrator can perform the access right assignment and record download in one operation.

- (1) Select User Management System from the Tools drop-down menu.
- (2) Select the **Batch Ops** page.

| User Mana | igement Syste | m | | | • Auth | enticatio | n Proper |
|---|--|-------------------------------|----------------------------|------------|---|-----------|-----------------------------|
| Device List : Device ID | Location | | 🔲 Select All | Add | Ediți/Delete Download | Upload | Batch Ops |
| 2 | | | | OO1 002 | ed Device List | | ₽ Dnjoad |
| | | | | | | | ± D <u>e</u> lete |
| PUserList: (Sy UserID Na 1 Us 2 Us | stem Date format : dd/MM me er1 er2 | l/yyyy) Depa HR Acco | rtment Type Fla unt U F | JUSEF | IST C All C RD Type Status 1 U 2 U | Partial | ि Error Log |
| | | | | | | | |
| Filter by : 💽 All | O No Access Rights | • Enroll Date : 777 | • 77 | | | - | 었 Clear List |
| Sort by : 💽 Us Find : USERI | er ID C Name C D 🔽 | Type C Flag | C Department | Sort by | y: 🖲 User ID 🔿 Ty | /pe C | Status |
| | | | | | | | |

- (3) Select the device id from the **Device List** and click \ge .
- (4) Select the user id from the **FP User List** and click \ge .
- (5) Check the All check box and Click Dnload to start the delete operation.

Duplicate access rights records for multiple devices

If there is a requirement that more than one device needs to have the same user records, the administrator can duplicate the access right information for multiple devices with reference to one device.

- (1) Select User Management System from the Tools drop-down menu.
- (2) Select the **Edit/Delete** page.
- (3) Select the reference device id from the **Device List** box.

| User Management E <u>x</u> it | System | | | |
|--------------------------------------|--|---|--------------------------------------|----------------|
| User Man | agement System | | © Authentic | ation Property |
| Device List : Device ID 1 2 | Location | 🔽 Select All 🕨 | Add Edit/Delete Download Uplo | ad Batch Ops |
| FP liser List - | | | Selected Users List: 0001 0002 | 🔩 Clear |
| UserID N 1 U 2 U | ystem Uate format : dd/MM/yyyy) ame ser1 ser2 | Select All | | Сору Сору |
| Filter by : • • A | II C No Access Rights C Enroll | Date: 77 - 77 | | Save |
| Sort by : 🔍 U Find : USEF | ser ID C) Name C Type | C Flag C Department | Find User ID : | <u>\.</u> |

(4) Click **Copy** and the following dialogue box will be shown:

| Сору | |
|---|--|
| <u>x</u> it | |
| Device ID : 1 Authentication Mode : Authentication I Device information Device Table : DEVICE ID Location 1 2 | Property Device ID:1 copy to : Call Device Selected Device ID : Clear All Clear All Save |

- (5) Select the device from the Device Table and click .
 (6) Click All Device and Save to start the copy operation.

Device users' access right cross check

This feature allows administrators to verify whether the device users' access right stored in the database is synchronized with the device.

- (1) Select User Management System from the Tools drop-down menu.
- (2) Select the **Download** page.

| and and the | agement system | | * Aunenutau | on Froper |
|--|---|--|--|--|
| evice List : Device ID 1 2 | Location | 🔽 Select All 본 | Add Edit/Delete Download Upload Selected Device List: All Partial USERID Type Status | Batch Ops |
| P User List : (S UserID N 1 U 2 U | iystem Date format : dd/MM/yyyy) ame ser1 ser2 | Select All Department Type/Flag HR U Account U | 1 U Downloaded 2 U Downloaded | Multi-Dnload |
| | | | × | ID Compa <u>r</u> e IS Error Log |
| ilterby: ⓒ A iortby: ⓒ U ind: USEF | II C No Access Rights C Enrol ser ID C Name C Type ND 💽 | C Flag C Department | Sort by : • User ID C Type C |) Status |

(3) click **ID** Compare to start the verification process. A report will be generated at the end of the process.

User records cross check

This feature allows administrator to compare the user records stored in the device user database with the user records store in the device.

Perform a check is similar to the procedure to upload user records from the device except that instead of executing the **Upload** command, the administrator should execute the **Cross Check** command under the **Upload** page. At the end of the operation, a report will be generated. Please refer to the previous section on *Upload user records from the device and update to the device user database*.

Error log report

This feature allows administrators to check for any error during operation like download user records, upload user records etc. Under the download page, upload page and the batch ops page, administrators can open the error log report as shown below:

| Error Log Report |
|-----------------------------------|
| Exit |
| Device Error Log Reports |
| C ID Compare Error Log |
| C Multi-Dnload Error Log |
| O Download Error Log |
| C Get Info Error Log |
| O Delete Error Log |
| C Upload Error Log |
| C Cross Check Error Log |
| C Update Error Log |
| Batch Dnload Error Log |
| Batch Delete Error Log |
| C All Error Log |
| (System Date format : dd/MM/yyyy) |
| Date: 11/06/2001 11/06/2001 |
| |
| |
| Device ID : · |
| |
| Report Purge Clear Cancel |
| |

D. Setting Finger Print Scanner



Setting the Finger Scanner Type is used to define which model fingerprint scanner is being used. There are two types of scanner namely parallel port scanner and USB port scanner.

E. Calibrate Finger Print Scanner

This feature allows administrators to perform a calibration on the fingerprint scanner.

(1) Select **Calibrate** from the **Fingerprint Scanner** drop-down menu.

| Device Configuration | |
|----------------------|--------------------------------------|
| | Brightness — 40% |
| | Contrast — 40% |
| | Gain 2 |
| | |
| | Preview OK |
| | <u>A</u> uto Exposure <u>C</u> ancel |

(2) Place the finger on the scanner and click **Auto Exposure**. Do not remove the finger until the progress bar indicates operation has completed.

F. Modem Connection System

Modem Connection System is a module that allows user to manually connect to a remote Biopointe device through a modem. The modem connection must be established before any other commands (i.e. upload log records, download fingerprint template) can be carried out. To establish the communication, the Biopointe device must be configured to modem communication mode. Once the communication is established, the connection will stay connected until user manually disconnect or exit the Biopointe Central application.

| 1 | Secumodcon] | Modem Connection System | х |
|---------------|------------------|-------------------------|---|
| E <u>x</u> it | Device Connecti | on <u>S</u> etup | |
| | | | - |
| | Device ID : | 5 🔽 🧟 Connect | |
| | Result : | | |
| | Communication Cl | hannel: Modem | |
| | Telephone No. : | 4845451 | |
| | COM Port : | 1 | |
| | Baud Rate : | 38400 | |
| | | No dialup connection | |
| | | | |



NOTE: Once the modem is manually connected, the modem will stay connected until you have manually disconnected the modem or you have terminated the Biopointe Central application. So remember to disconnect modem after use.

To start the connection to the Biopointe device through modem:

- (1) Select the device ID that is configured as a modem communication channel.
- (2) Click on the **Connect** button to start dialing up.
- (3) Once connected, the status will show "Connected to remote station".

To disconnect from the Biopointe device through the modem:

- (1) Click on the **Disconnect** button to start dialing up.
- (2) Once disconnected, the status will show "Connection terminated.".

G. Device Log Management System

This feature allows administrators to control the uploading of event log records from multiple devices, generate event log reports and export the log records to ASCII text file. All these features can also be found in the Device Management System. However, in the case when administrator want to control the access on some of the logon user from accessing the Device Management System, but still allow the user to manage the log records, then the administrator can disable to Device Management System and enable the Device Log Management System.

To upload event log records from the device:

(1) Select Device Log Management System from the Tools drop-down menu.

| Exit Log Report Log Export | | × |
|----------------------------|----------|---|
| Device Table : | | Selection |
| DEVICE ID Location | Status 🔺 | |
| Meeting Room | OFF | C Selected Device ID : <u>Sa</u> Ulear <u>All</u> |
| 2 R&D Data Room | OFF | |
| 3 Computer Room | OFF | |
| | V | 도 Set Log Date 양을 Poll Device 및 Upload |
| | | |

- (2) Select the device from the **Device Table** and click on the **Selected Device ID** button. Or click on the **All Device** button to select all the device in the **Device Table**.
- (3) Click **Upload** to start the upload log records process.

To retrieve older data records from device:

(1) Click on **Set Log Date** button.

| | , | Log Start Date | | |
|-------------------------------|---|-----------------------------------|------|----------|
| Double-Click | | (System Date format : dd/MM/yyyy) | | |
| to pick a date from Calendar. | | Date | 🗸 ОК | 🗙 Cancel |

- (2) Key in a desired log Date that you want to retrieve from.
- (3) Click on the **OK** button to set the device date pointer back to the desired date.
- (4) Click **Upload** to start the upload log records process.

Please refer to the Device Management System on how to generate event log report and export log records.



NOTE:

To select multiple devices from the *Device Table*, press the "CTRL" key and left mouse click on the item to be selected. The currently selected item will have icon as shown. The selected item will have icon as shown.

H. Card Reader Com Port Settings

This feature allows administrator to configure the proximity card reader connected to the system. With the proximity card reader, administrator can scan the proximity card id and replace user id field with the card id.

To configure the card reader:

(1) Select Card Reader Com Port Settings from the Tools drop-down menu.

| 🔁 [ReadComset] 🛛 Ca | ard Reader COM Po 🗙 | | |
|-----------------------------|---------------------|--|--|
| E <u>x</u> it | | | |
| Card Reader Type | COM Setting | | |
| C Proximity Reader | • COM 1 • COM 2 | | |
| Mifare Reader | C COM 3 C COM 4 | | |
| | | | |
| Card - Number of digit : 10 | | | |
| ✔ Save setting | | | |

- (2) Select which type of Card Reader.
- (3) Select the com port that the card reader is connected to and choose the maximum number of digit to be captured from the reader by specifying the **Card-Number of digit**.
- (4) Click **Save setting** to commit the changes.

I. Report Management System

This features allows administrators to generate reports on the enrollment status of all the user records in the device user database and the access rights of all the user records in the device users' access right database. From the generated report, administrators will have a better view on which user record has not been registered and which user record has not been given any access right to any device.

Select **Report Management System** from the Tools drop-down menu.

| E | Report Management System |
|--|--------------------------|
| When the mouse is over the Report Type item, a description of the report to be generated will be shown within the blue text box. | |

J. Expiry Date Configuration

Expiry Date Configuration function allows user to set a default expiry date or manually allow user to set a expiry date for that particular record.

| 🔁 [SecuExDfig] | Expiry Date Configuration | × |
|-----------------------------|---------------------------------|---|
| Exit Expiry Settings (Sy | stem Date format : dd/MM/yyyy)— | |
| C Default to : | 16/03/2003 | |
| | 🗸 Save setting | |

K. Card Data Import

Card Data Import function provides a way for the user to import pre-defined Card number with defined Site Code and Land Code. This enables the administrator to pre-determine the User IDs in the system based on the range of Card IDs which the administrator is holding before actually issuing a User ID to the actual user.

| [SecuCardImp] Card Data Import _{sit} | |
|--|--------------------|
| | 🐏 Import 🛛 🗐 Clear |
| Import Field Value | |
| ID Range : 8990 | _ 10092 |
| Site Code : 1 | Land Code : 2 |
| Default Authenication Flag : Fin | gerprint 🔽 |
| Error Remark | |
| | |
| | |
| | |
| | |
| | |



NOTE:

If an Import Card ID existed in the system database as a UserID. The System will <u>NOT</u> overwrite the information with the Imported Card ID Data.

L. Database Path Setup

The Biopointe Data Files (i.e. device user database, event logs database and device users' access right database) are stored in a default directory during the installation process. However, if user wants to place this information in a network drive, the user can copy all the database files from the installed directory (Biopointe Central\database) to the network directory. By storing the database into the network drive, multiple user can logon at different client station and share the same database.

(1) Copy all the files under the sub-directory (database) of the installed directory (Biopointe Central) to a desired network directory.

| Open | | | | ? × |
|---|-----------------------------------|---|--|---|
| Look jn: 🔂 | DataBase | | - 🗈 🜌 | 📸 📰 🛅 |
| bk Calendar Schedule Fg40.db FPDev.DE | ar ar ar BF ar DBF ar | FPDevGrp.DBF FPDevLog.DB FPDevSch.DBF FPDevUsr.DBF FPDevUsr.DBF | fpLogSum.DBF FPLST.dbf FPSchUsr.DBF FPUser.DBF fpUsrFP.DBF fpUsrFP.DBF fpUsrFP.DBF | Pdf.dbf Photo.DBF Schsort.DE Sort2.DBF Sorted.DBF |
| | | - · · | | |
| File <u>n</u> ame: | FPUser | | | <u>O</u> pen |
| Files of type: | Native File | es (*.DBF/*.DB) | • | Cancel |
| | 🔲 Open a | as read-only | | |

- (2) Click Tools from the top menu and select **Database Path Setup** from the drop-down menu.
- (3) Select the file FPUser.DBF in the network directory and click Open.

M. Import User Information

Import User Information Module allows you to accept an ASCII text file and add the data in the text file into the User database. If the User ID of the import text file is the same as the User ID in the user database, the system will prompt you to overwrite the particular record in the database. If you select No option, the system will stop the import operation. Once activated, the system will prompt you to open the import text file. After the import file is opened, you need to select which separator and then link the correct import field to the User ID, User Name, Department and Link ID fields.



A) Separator

Separator option allows you to choose which kind of separator that the ASCII text file has. A Separator Character separates the fields in the ASCII text file. There are 3 kind of separator provided in this option namely *Comma*, *Fixed* and *Other*.

Comma separator separates the field with a comma (,). Eg field1, field2, field3, field4, field5

Fixed separator separates the field using fixed field length. Eg field1 field2field3 field4 field5 You need to pre-define the field size of each field in the text field by selecting the set field size button. Below shows the set field size screen:





WARNING: Limit to 20 fields only. Make sure that the field size is not set to 0.

Other separator separates the field with a user-defined character. Eg. Selected Other: &. The txt file: field1&field2& field3&field4&field5

B) Import Text File

Import Text File option allows you to select another text file for importing to the user database. For usage, click on the **Change** button and select another text file to import.

C) Import Linkage

Import Linkage option allows you to link User ID, User Name, Department and Link ID fields to the import text fields. Beside these, you can auto generate the user id by selecting the Auto ID checkbox. Once checked, you must key in a starting number. The system will import the file's data with the auto-generated User ID with the file's data in sequence.



NOTE: The pull down list of each database field is automatically updated when the correct separator is selected.

D) Import

Import option allows you to import all the text file's data into the user database. System will prompt you if there is any duplicate User id.

E) Default Authentication Flag

During the import operation, the application will automatically fill in the Authentication Flag field based on the selection.



WARNING: Make sure that the field separator is correct as it affects the import of correct data into the system.

N. Export User Information

Export User Information Module allows you to export all records in the user database into an ASCII text file. It also provides user a separator option for user to export into the different kind of separator Text file.

Separator option allows you to choose which kind of separator that the ASCII text file has. A Separator Character separates the fields in the ASCII text file. There are 3 kind of separator provided in this option namely *Comma*, *Fixed* and *Other*.

Comma separator separates the field with a comma (,). Eg field1, field2, field3, field4, field5

Fixed separator separates the field using fixed field length. Please refer to the Appendix B: Export Field Table for the field size. Eg field1 field2field3 field4 field5

Other separator separates the field with a user-defined character. Eg. Selected Other: &. The txt file: field1&field2& field3&field4&field5

| 🔚 User Information Expor | t | X |
|--------------------------|---------|--------------|
| Exit | | |
| | | Export Clear |
| Comma (.) | C Fixed | C Others : 🔕 |

To Export data,

- (1) Select which kind of separator you wanted to export to.
- (2) Click on the export button to start exporting data.
- (3) Key in the directory and the file name when the system prompted.
- (4) Wait until a message box shows that the exporting of data has finished.

O. User Records Filtering

When user log on to the application, all the user records will be shown and the log on user can edit or modify all the records shown. If the logon user want to manage only a group of user records, the application provides the feature that allow logon user to set a filter criteria on the records to be shown.

To set filter criteria for the records shown:

(1) Click **Edit** from the top menu and select **Filter** from the drop-down menu or click

| <pre>fmFtrU010></pre> | Table Filter | | | | |
|--------------------------|--|-------------|-----|---|---|
| Table Filter | No Filtering Options (Show a | ll records) | 8 | 2 | > |
| ▼ Select 1: | DEPARTMENT | Range : HR | · [| | |
| AND | O OR | | | | |
| □ Select 2: | | Range : | · [| | |
| © AND | C OR | | | | |
| □ Select 3: | | Range : | • | | |
| © AND | C OR | | | | |
| □ Select 4: | <u></u> | Range : | · [| | |
| © AND | O OR | | | | |
| Select 5: | | Range : | · [| | |
| © AND | C OR | | | | |
| 🗖 Select 6: | · · · · · · · · · · · · · · · · · · · | Range : | - [| | |
| © AND | C OR | | | | |
| E Select 7: | · · | Range : | · [| | |
| © AND | C OR | | | | |
| Select 8: | <u>_</u> | Range : | • | | |
| (Add '* 'at tl | e end of the range to search for simil | ar value) | | | |

- (2) Check the **Select 1** box , select the record field for the filter criteria and enter the range value . As shown in the above example, record with department equal to HR will be filter out and shown for edit or modify.
- (3) Click *to* commit the changes.



NOTE:

The filter criteria are case sensitive.

When the Run button is executed, if no record meet the criteria set, then the filter operation will be canceled and the filter criteria will be disabled.

Once the filter criteria are accepted, all subsequent logon user will view/edit records based on the filter criteria.

P. Database Maintenance

The application provides the features like re-index, pack, empty, backup, restore and setting the database path as tasks for database maintenance. Re-index operation should be carried out when the database sorting or filtering function is not working. Packing operation should be carried out when there are many delete operations done on the device user database. This is because a delete operation does not remove records completely from the database until a packing operation is carried out. As for backup operation, users should it carry out periodically. The database being backed up include system database, event logs database, device user database and device users' access right database. All the database files will be compressed into 1 zip file. The default zip file name is <u>YYYYMMDD.zip</u>. (Eg: User did a backup on 08-11-2000, the default backup file name will be 20001108.zip.) If user does not want to name the zip file this way, system allows user to change the zip filename before zipping all the database files. The zip file will be stored in the default backup directory or in the directory specified by the user. Make sure all the database files are closed before backing up. Restore Option allows user to restore all the database files from a zip file. All the files will be restored to Data directory. The restored system files will overwrite the current system files located in the data directory. User needs to select which zip file to restore. This function is only enabled if the logon user has supervisor right.

To re-index the database file:

- (1) Click **Database** from the top menu and select **ReIndex** from the drop-down menu.
- (2) Click on the **Include** column to select the item to be re-indexed.

| | | | D |
|---------------|-----|-----------------------|---------------|
| Exit | | | |
| Grouped Files | | | Include |
| DATA FILES | | | No |
| SYSTEM FILES | | | No |
| | | | |
| | All | 0 | As Selected 💿 |
| | | ✓ | OK Cance |

(3) Click **OK** to start the re-index operation.

To pack the database:

- (1) Click **Database** from the top menu and select **Pack** from the drop-down menu.
- (2) Click on the **Include** column to select the item to be packed.

| 🔁 PACKING | | | |
|---------------|-----|--------------------------------|---------------|
| Exit | | | |
| Grouped Files | | | Include |
| DATA FILES | | | No |
| SYSTEM FILES | | | No |
| | | | |
| | All | C A | s Selected; 💿 |
| | | ✓ <u>□</u> | K X Cancel |

(3) Click **OK** to start the packing operation.

To empty the database:

- (1) Click **Database** from the top menu and select **Empty** from the drop-down menu.
- (2) Click on the Include column to select the item to be emptied.
- (3) Click **OK** to start the empty operation.



NOTE:

BIOPOINTE DATA FILES include the Device User Database, the Event Logs Database and the Device Users' access right Database.

SYSTEM FILES include the Authorized Application Users Database.



WARNING:

The empty operation is an irreversible operation.

To backup database:

(1) Click **Database** from the top menu and select **Backup** from the drop-down menu.



Users are able to view the zip status and the files being zipped up.



NOTE: Do a backup occasionally on the database files to help user recover any data loss. Close any opened database file: FPUser.DBF first before backing up the database files.

To restore data:

(1) Click Database from the top menu and select Restore from the drop-down menu.



Click this to restore all the System and Biopointe Data Files. (Please refer to Appendix B for the files to be backup)

User is able to view the restore status and the files being unzipped to.



WARNING: The Database files that had been restored overwrite the current existing files in the directory. Once they have overwritten, all the database files cannot be recovered.

Q. Proximity Card Registration

Biopointe device supports the card only, card and fingerprint, card and pin authentication mode. Therefore, this feature allows administrators to retrieve the proximity card information and store into the user record.

To registered a card:

- (1) Select the user record to be edited or registered.
- (2) Click **[11]** to start the card id capturing process.
- (3) Place the proximity card over the proximity card reader.
- (4) Once the card reader capture the card id, it will replace the selected user record:USERID field with the card id automatically.
- (5) Click on the save(tick) button to save the modified user record's data.

R. Database Setup



You can create; edit database properties in the Biopointe Central.

Database Setup allows user to change the properties of the displayed database table. User cannot change the field type or add or delete fields. But user can add a counter to a particular field to increment an ID number as user adds a record. User can set the field to invisible during display or user can set the field to viewable but not editable. Or user can add in default values and have a selection list in the table. This Option allows the user to control some of the database field definitions.



NOTE: Make sure the entire database table is closed. They are no active table in the System before changing the Database Settings.

Edit Database Settings,

- (1) Close the active database table by selecting File Main Menu, then Close Option.
- (2) Open the Database Setup by selecting System Menu, then Database Setup.
- (3) Open the FPUSER.DBF from the Database setup File option.

| | <mark>⊇ Database SetUp</mark> ⊸ File_About | <fpuser.dbf></fpuser.dbf> | | | | | | _ 8 × | |
|--------------------|---|---------------------------|------------|----|-------|----------|----------------------|-------|--------------------|
| | | 8 | | | | 0- | Primary Index USERID | • | |
| Click this to save | | le un | [* | 6 | 10 | <u> </u> | | | |
| the settings | Asplay Name | | l ype N | 10 | Dec 0 | USEBID | | | |
| the settings. | Vame | NAME | | 40 | 0 | NAME | | | |
| r | Tenartment | DEPARTMENT | C | 20 | 0 | INSUIC | | | Double-Click to |
| 1 | Line | TYPE | C C | 1 | 0 | | | | open the field |
| · c | Schedule | SCHEDULE | N | 2 | 0 | | | | open die neid |
| - | SBOUP | GBOUP | N | 2 | 0 | | | | definition for the |
| - | Authentication Flag | AUFLAG | C | 1 | 0 | | | | |
| L | ANDCODE | LANDCODE | N | 3 | 0 | | | | selected field. |
| 5 | SITECODE | SITECODE | N | 3 | 0 | | | | |
| G | GAIN | FPGAIN | N | 4 | 0 | | | | |
| c | :EXPO | FPCEXPO | N | 4 | 0 | | | | |
| F | EXPO | FPFEXPO | N | 4 | 0 | | | | |
| F | PIN | PIN | В | 0 | 0 | | | | |
| F | ingerprint | FP | В | 0 | 0 | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Double-click on each of the field and the Field Definition dialog box will be shown.

The following illustration identifies and names each part of the window. The text explains how each part functions.

| | Field Definition Image: Second seco | |
|--|--|--|
| | Field Name USERID Field Length 10 Field Decimal 0 • C Character C Century Date C View C Current User C Current User C Fixed C Not Visible Options C Fixed C Sequence | |
| Modify the Default format (Eg change the counter number from 4 to 3) | C Logical C Daily Seq. C Blob C Vearly Seq. C Yearly Seq. C Yearly Seq. C Yearly Seq. C Yearly Seq. C Yearly Seq. C Yearly Seq. C None | |
| Double-click to select a drop list file. | Drop List File Modify Seq Click and modify the counter current number. | |

Field Definition module allows user to change the display name and the properties of the display field. Beside these, user is able to have a selection list for that particular field by double clicking on the drop list file and select which file from the drop down list. It also provides user ways to set the default values for this field once user adds a record during runtime. Below is a set of default formats that are provided by the system.

| Fill default | Format | Description |
|--------------|------------------|--|
| Current Date | | The field will have the current date as default. |
| Current | | This field will be set to the log on user as default. |
| Fixed | User input | Set this field to a fixed default value. |
| Sequence | [LEN16] | Set this field with a number count with 16 digits. |
| Daily Seq. | [YYYYMMDD][LEN8] | Set the field with the current date format as yyyymmdd plus a |
| | | number counter with 8 digits. |
| Monthly | [YYYYMM][LEN10] | Set the field with the current month format as YYYYMM plus a |
| Seq. | | number counter with 10 digits. |
| Yearly Seq. | [YYYY][LEN6] | Set the field with the current year format as YYYY plus a |
| | | number counter with 6 digits. |
| Field | [L:FIELDNAME] | Set the field to another Field with the Field ID as FIELDNAME. |
| None | | No default settings. |



NOTE: Maka sura

Make sure user click on the "None" Default format before clicking on the desired default format to change the default format.

- 1) Select or modify settings.
- 2) Click on the **OK** button after modifications are completed. (Note: The values are not saved yet.)
- 3) After modifying the fields.
- 4) Click on the **Save** button of the database setup module to save the information.

S. Configure FingerPrint Scanner Type

The Biopointe Central package supports two types of fingerprint scanner for the enrollment process. The default fingerprint scanner used is the parallel port scanner.

To select the fingerprint scanner type:

(1) Select Scanner Type from the Fingerprint Scanner drop-down menu.



(2) Click on the scanner type and press the Save button to commit the changed.



NOTE:

Changes will only take effect after user has exit from the Biopointe Central application.

For the USB port scanner, a separate fingerprint scanner driver needs to be installed. For the Win95 system, make sure the USB supplement component is installed before the fingerprint scanner driver.

T. Support Multiple Export Formats for Report

The Biopointe Central Package support the following export formats on report being generated.

- (1) Lotus 123 File
- (2) Excel File
- (3) HTML File
- (4) Adobe File
- (5) Quattro File
- (6) Bitmap File
- (7) JPEG File
- (8) CSS2 File
- (9) RTF File

To export the specific file format from the report :



(a) Press the button.

.....

| | File <u>n</u> ame: | |
|---|--------------------|--|
| | Save as type: | QuickReport file(*.QRP) |
| _ | | QuickBeport file(* QBP) |
| | UserNa | Lotus 123 File (* WK1) |
| | <u>Time IN</u> | Quattro File (*.WQ1) |
| | 09:12:43 | Excel File (*.XLS) |
| | 17:33:05 | Bitmap File (*.BMP) IPEG File (*.IPG) |
| | | |
| | | |
| | lloorNo | |
| | Userna | USS2 File (*.HTMJ |
| | <u>Time IN</u> | Adobe PDF File (*.PDF) |

- (b) Select the required format from the drop list and provide the file name.(c) Press the Save button to start the exporting process.

Chapter 5

TROUBLESHOOTING

If you have any difficulty using Biopointe Central, the troubleshooting suggestions in this section should, in most cases, solve the problem. If you still have difficulty after trying these suggestions, contact your authorized reseller for technical assistance.

A. Problems and Solutions

Q1) The STATUS of every device in the table is OFF after polling.

| CAUSE | What to do |
|---------------------------------------|---|
| Wrong communication channel selected. | Check Communication Channel. |
| Wrong COM port selected. | Check Communication Port Settings |
| Wrong DeviceID, IP and PORT settings. | Check with the device for the correct settings. |

Q2) During log uploading, a message pops up "'02/08/00' is not a valid date and time. "

| CAUSE | What to do |
|--------------------|--|
| Wrong date format. | Go to Regional Settings Properties in Control Panel. |
| | Under Date folder, check Short date style is either |
| | dd/mm/yyyy or mm/dd/yyyy. |

B. Contacting Customer Support

If you cannot solve your problem with the troubleshooting information in this manual, contact customer support services for assistance.

Keri Systems, Inc. Customer Support

Contact us below:

Keri Systems, Inc. 1530 Old Oakland Road, Suite 100 San Jose, CA 95112 USA Phone: **800-260-5265** 408-451-2520 FAX: 408-441-0309 Email: techsupport@kerisys.com

Appendix

Appendix A

List of Log Record States

Table 4.6(a) to 4.6(f) lists the different class of log records.

Logs can be generally classified into Time-Attendance logs, Failed Transaction logs and Trace logs.

Time-Attendance logs describe the attendance status of the user when they have their fingerprint or card successfully matched at the Reader.

Failed Attempts logs describe the failure status of the user when they did not have their fingerprint or card successfully matched at the Reader.

Trace logs traces specific events (or trace events) that happened at the Reader such as when the door was opened or when the alarm was activated. Trace events are classified into the following types:

- Door and Tamper Switch Events
- Alarm Events
- System Power Up
- Setup Mode Events

Time-Attendance logs are always recorded. On the other hand, Failed Attempts and Trace logs can be disabled so that these events will not recorded even when it happened. Disabling of Failed Attempts and Trace events can only be done at the Reader.

Each type of log is differentiated from the other by an identifier. The identifier, in this release of the library is referenced by the variable, <u>EnterLeaveStatus</u> in the log record structure.

| | Identifier | Identifier | (dentifier Description (according to display types) | | | | |
|---|-------------------|-------------------|---|---------------------|---------------------|-------------------|---------------------|
| | (nex) | (dec) | 'Welcome' | Attd (6 Levels) | Attd (2 Levels) | Attd / Access | Attd / Access V1 |
| 1 | 0x01 | 1 | Welcome | Attendance In | In | Attendance | - |
| 2 | 0x02 | 2 | - | Leaving Out | Out | Access Control | Access Control |
| 3 | 0x03 | 3 | - | Early Leave | - | - | - |
| 4 | 0x04 | 4 | - | Going Out | - | - | - |
| 5 | 0x05 | 5 | - | Return | - | - | - |
| 6 | 0x06 | 6 | - | Others | - | - | - |
| 7 | 0x07 | 7 | - | - | - | - | In |
| 8 | 0x08 | 8 | - | - | - | - | Out |

Table 4.6(a): Time Attendance
Time-Attendance logs will record one of the following events in the table above. This event is selected by the user at the time he or she is using the device. The collection of events follows each display type. There are currently 5 different display types listed above. For example, if the display type, 'Welcome' is selected, there is only one event that can be selected by the user. On the other hand, if the user selects the 'Attd (6 levels)' display type, they can appropriately select from a list of 6 different events before clocking.

| | Identifier (hex) | Identifier (dec) | Description |
|---|---------------------|---------------------|-----------------------------|
| 1 | 0x12 | 18 | Door Opened |
| 2 | 0x18 | 24 | Door Switch Opened |
| 3 | 0x19 | 25 | Door Switch Closed |
| 4 | 0x1A | 26 | Door Override Switch Opened |
| 5 | 0x1B | 27 | Door Override Switch Closed |
| 6 | 0x1C | 28 | Tamper Switch Opened |
| 7 | 0x1D | 29 | Tamper Switch Closed |

Table 4.6(b): Door And Tamper Switch Events (Trace Event)

If trace logs are enabled and the system is used as a Door Access system, the Door Events logs will record events that happened at the door.

For example, the event, [Door Opened] will be recorded when the user has his or her fingerprint or card successfully matched at the Reader.

Note that this event will only be recorded if the **DoorLockUnLock** property is set to <Disabled>, as setting this property to <Disabled> allows the door to be unlocked when matching is successful.

If this log is recorded, it can be seen upon retrieval of logs that this door event is always recorded following one of the Time-Attendance events, such as [Attendance In]. This is because the Time-Attendance event acts as a request to open the door.

The 2^{nd} and 3^{rd} events, [Door Switch Opened] and [Door Switch Closed] are recorded when the door is locked or unlocked.

The 4th and 5th events, [Door Override Switch Opened] and [Door Override Switch Closed] are recorded when the Door Override Switch is used. When the Override Switch is closed, the door is forced to be unlocked. The Override Switch is always opened under normal conditions.

The 6th and 7th events, [Tamper Switch Opened] and [Tamper Switch Closed] are recorded when the device's casing is being tampered with. The Tamper Switch is always closed under normal conditions. When the device' casing is opened, the Tamper Switch is opened.

Tamper switch sensing can be disabled through the Arm/Disarm selection in the device. When the device is disarmed and the device's casing is opened, the tamper switch events will not be triggered.

Table 4.6(c): Alarm Events (Trace Event)

| | Identifier (hex) | Identifier (dec) | Description | |
|---|---------------------|---------------------|---|--|
| 1 | 0x30 | 48 | Alarm Activated | |
| 2 | 0x31 | 49 | Alarm Deactivated | |
| 3 | 0x81 | 129 | Activated Alarm was Acknowledged and Disabled | |

The event, [Alarm Activated] is recorded whenever the alarm is triggered. The alarm will only be triggered if the **AlarmType** property is NOT <Disabled>.

The alarm can be triggered under a few types of conditions.

For example, the alarm can be triggered if the door switch sensing is found to be different from the **DoorSwitchSense** property. As an example, if the **DoorSwitchSense** property is <Normally Closed> while the connection is opened, then the alarm will be activated. Similarly, if the **DoorSwitchSense** property is <Normally Opened> while the connection is closed, then the alarm will also be activated. When the condition is correct, the alarm stops and the event, [Alarm Deactivated] will be recorded.

In addition, the alarm can also be triggered when the Door Override Switch is closed and when the Tamper Switch is opened.

When the alarm has been activated, it can be acknowledged and stopped by forcing the **AlarmType** property to <Disabled>. In this case, the event, [Activated Alarm was Acknowledged and Disabled] will be recorded.

Notes on Alarm Events Logs and Door / Device Tamper Events Logs :

The following events trigger the alarm:

- 1. Door Override Switch was closed.
- 2. Tamper Switch was opened.
- 3. Door Switch Sensing was found to be reverse.

The first 2 events already have their own event description, namely, [Door Override Switch Closed] and [Tamper Switch Opened]. To avoid generating too many logs, the event, [Alarm Activated] will not be recorded although the alarm will be triggered.

Table 4.6(d): System Power Up (Trace Event)

| | Identifier (hex) | Identifier (dec) | Description |
|---|---------------------|---------------------|-------------------|
| 1 | 0x90 | 144 | System Powered Up |
| 2 | 0x91 | 145 | Startup Error |

When the system is successfully powered up, the event, [System Powered Up] will be recorded. When the system fails to power up successfully, the event, [Startup Error] will be recorded.

| | Identifier (hex) | Identifier (dec) | Description | |
|----|---------------------|---------------------|---|--|
| 1 | 0xA0 | 160 | Setup Mode Entered | |
| 2 | 0xA1 | 161 | Setup Mode Exited | |
| 3 | 0xB1 | 177 | A user's fingerprint was changed | |
| 4 | 0xB2 | 178 | A user was added | |
| 5 | 0xB3 | 179 | A user was deleted | |
| 6 | 0xB4 | 180 | A Master was added | |
| 7 | 0xB5 | 181 | A Master was deleted | |
| 8 | 0xC0 | 192 | Device date and time was changed | |
| 9 | 0xC1 | 193 | Door Configuration was changed | |
| 10 | 0xC2 | 194 | Alarm Configuration was changed | |
| 11 | 0xD0 | 208 | A Card/PIN was changed | |
| 12 | 0xD1 | 209 | Door secure – The door is configured to always locked. | |
| 13 | 0xD2 | 210 | Door Unsecured – The door control was set to always unlocked. | |
| 14 | 0xD3 | 211 | Door Normal – The door is configured to be " Disable " i.e. Door will unlock upon successful verification. | |

Table 4.6(e): Setup Mode Events (Trace Event)

Setup Mode Events record critical events that happen in the setup mode.

When accessing the setup mode, the event, [Setup Mode Entered] will be recorded. When the user subsequently quits from the setup mode, the event, [Setup Mode Exited] will be recorded.

When the supervisor is in the setup mode, he may add or delete a user, change the date and time, change the alarm configuration or change the door configuration. Each of these events (as listed in the table above) will be recorded.

| | Identifier (hex) | Identifier (dec) | Description |
|---|---------------------|---------------------|---|
| 1 | 0xE7 | 231 | Failed matching (for users registered with fingerprint) |
| 2 | 0xE8 | 232 | Failed matching (for users registered with card) |
| 3 | 0xE9 | 233 | Failed matching (for users registered with card/PIN) |
| 4 | 0xEA | 234 | ID not found in device database |
| 5 | 0xEB | 235 | Fingerprint match could not be found using partial search |
| 6 | 0xEC | 236 | Matching was aborted |

Table 4.6(f): Failed Attempts

Failed Attempts logs comprise the events in the table above. Each event describes the reason for the failure to achieve a successful authentication.

Appendix B

List of Database files

There are two types of database files namely, Biopointe Data Files and System Files. Biopointe Data files are those database files belong to Biopointe Device. System Files are database files that belong to the System. These files will be compressed into 1 zip file and will be stored in the backup directory or user specified directory once user selects the backup option

Types of Database Files :

| Туре | Database Filename |
|----------------------|-------------------|
| System Files | SyCdIx.DB |
| System Files | SyCdIx.PX |
| System Files | SyCdIx.XG0 |
| System Files | SyCdIx.YG0 |
| System Files | SyCdIxdt.DB |
| System Files | SyCdIxdt.PX |
| System Files | SyCdLog.DB |
| System Files | SyCdLog.PX |
| System Files | SyCdPop.DB |
| System Files | SyCdPop.PX |
| System Files | SyCdPop.XG0 |
| System Files | SyCdPop.YG0 |
| System Files | SyCdUrgt.DB |
| System Files | SyCdUrgt.PX |
| System Files | SyCdUser.DB |
| System Files | SyCdUser.MB |
| System Files | SyCdUser.PX |
| System Files | SysWkSt.db |
| Biopointe Data Files | FPDev.DBF |
| Biopointe Data Files | FPDev.MDX |
| Biopointe Data Files | FPDevCon.DBF |
| Biopointe Data Files | FPDevCon.MDX |
| Biopointe Data Files | FPDevGrp.DBF |
| Biopointe Data Files | FPDevGrp.MDX |
| Biopointe Data Files | FPDevLog.DB |
| Biopointe Data Files | FPDevLog.PX |
| Biopointe Data Files | FPDevUsr.DBF |
| Biopointe Data Files | FPDevUsr.MDX |
| Biopointe Data Files | Fperrlog.DBF |
| Biopointe Data Files | Fperrlog.MDX |
| Biopointe Data Files | FpGroup.DBF |
| Biopointe Data Files | FpGroup.MDX |
| Biopointe Data Files | FPSchUsr.DBF |

| Biopointe Data Files | FPSchUsr.MDX |
|----------------------|--------------|
| Biopointe Data Files | FPUplTem.DBF |
| Biopointe Data Files | FPUplTem.DBT |
| Biopointe Data Files | FPUplTem.MDX |
| Biopointe Data Files | FPUser.ACD |
| Biopointe Data Files | FPUser.DBF |
| Biopointe Data Files | FPUser.DBT |
| Biopointe Data Files | FPUser.MDX |

Log Field Table

| Definition | Size | Description |
|-------------|------|--|
| Device ID | 3 | ID of the device. All devices connected in the chain should have unique ID |
| LogDate | - | Date of the Log record. (According to the System short date format) |
| LogTime | 8 | Time of the Log record. |
| UserID | 10 | User ID or Card ID for user accesses through card/fingerprint. For log record relate |
| | | to the system configuration, the ID will be zero. |
| LogType | 3 | Log record status value. Please refer to Appendix A for all the supported status. |
| JobCode | 7 | This value is valid only if Work in Progress Mode in the Biopointe Device is |
| | | enabled. |
| JobStage | 2 | This value is valid only if Work in Progress Mode in the Biopointe Device is |
| | | enabled |
| JobSubStage | 2 | This value is valid only if Work in Progress Mode in the Biopointe Device is |
| | | enabled |
| Department | 20 | The department that is located in the user database. This is only valid for the full |
| | | version of the Biopointe Central. |
| Description | 150 | This is the description of the log record status. |

Export User Information Table

| Definition | Size |
|--------------------|------|
| User ID | 10 |
| User Name | 40 |
| Department | 20 |
| Link ID | 10 |
| Туре | 1 |
| Authenication Flag | 1 |

Appendix C

List of Function Status and Reader Error Code

This section describes the <u>Function Status</u> and <u>Reader Error Codes</u>. The function status is that returned by a function. A value of zero indicates that the function was executed successfully, while a non-zero value indicates that the function had failed.

If the function status is FAL_RECEIVED, it indicates that the Reader has responded with a Reader Error Code indicating why the operation had failed. The table of Reader Error Codes can then be referred to.

Table 6(a): List of Function Status (For serial communication)

| | Constant | Value | Description |
|----|------------------------------|-------|--|
| 1 | COM_PORT_INIT_FAIL | 0xC0 | Fail to initialize the communication port |
| 2 | COM_PORT_WAS_NOT_INITIALIZED | 0xC1 | Before commands can be sent, the Com Port has to be initialized |
| 3 | PURGE_COMM_FAILED | 0xC2 | Fail to clear the receive and transmit buffers for the Com Port |
| 4 | SEND_CMD_FAILED | 0xC3 | Fail to execute sending of command |
| 5 | RECEIVE_DATA_FAILED | 0xC4 | Fail to execute receiving of data |
| 6 | INVALID_REPLY | 0xC5 | Received packet was not expected although the footer and header were properly received, and the checksum was correct |
| 7 | RECEIVE_FOOTER_WRONG | 0xC6 | Expected ETX, indicating the end of a packet, was not received |
| 8 | RECEIVE_HEADER_WRONG | 0xC7 | Expected STX, indicating the start of a packet, was not received |
| 9 | DEVICE_ID_MISMATCH | 0xC8 | Host sends a command to Device A. Packet received indicates reply was from Device B. (Indicate that the Host-received reply was not from the Reader the Host had earlier sent a command to). |
| 10 | HOST_ID_MISMATCH | 0xC9 | Host receives a packet from Reader that is addressed to another Host. If there is only one Host in the system, this may indicate a corrupted packet. |
| 11 | CRC_MISMATCH_AT_HOST | 0xCA | CRC performed and derived at the Host side for the received packet does not match that of the received packet |
| 12 | ZERO_BYTE_RECEIVED | 0xCB | No data was received from Reader for command that was sent out (time-out). |
| 13 | FAL_RECEIVED | 0xCC | Error Code received from Reader. Check the returned Error Code. |
| 14 | NAK_RECEIVED | 0xCD | Not-Acknowledge received from Reader (Reader is busy) |
| 15 | FAIL_TO_LOAD_CONVERT_DLL | 0xCE | Fail to load the DLL needed to convert the template to proper format |

| 16 | FAIL_TO_CONVERT_TEMPLATE | 0xCF | Fail to convert template to proper format |
|----|--|------|--|
| 17 | ABORT_FINGER_CAPTURE | 0xD0 | Fingerprint capture was aborted |
| 18 | SCHEDULE_NUMBER_NOT_FOUND | 0xD1 | Specified schedule number was not found |
| 19 | CALENDAR_YEAR_NOT_FOUND | 0xD2 | Specified calendar year was not found |
| 20 | INVALID_PARAMETER | 0xD3 | An invalid parameter was passed in to a function |
| 21 | INVALID_COM_PORT | 0xD4 | Invalid Com port number |
| 22 | INVALID_BAUD_RATE | 0xD5 | Invalid baud rate |
| 23 | INVALID_PARITY | 0xD6 | Invalid parity |
| 24 | INVALID_DATA_BIT | 0xD7 | Invalid number of data bits |
| 25 | INVALID_STOP_BIT | 0xD8 | Invalid number of stop bits |
| 26 | COMMAND_IN_PROGRESS | 0xD9 | Command in progress. This error is obtained if one command is tried to be executed while another is in progress |
| 27 | NO_SCHEDULE_SETS_TO_UPLOAD | 0xDA | No schedules to upload from the device |
| 28 | FAIL_TO_INIT_MODEM | 0xDB | Modem could not be initialized |
| 29 | MODEM_COMMAND_FAIL | 0xDC | A command to the modem could not be carried out successfully |
| 30 | NO_RESPONSE_FROM_MODEM | 0xDD | Modem did not response to commands |
| 31 | FAIL_TO_CONNECT | 0xDE | Unable to connect to a remote dialing location. (Possible reason is for example, a carrier could not be established with the remote modem) |
| 32 | LINE_BUSY | 0xDF | Unable to dial to remote modem due to the line being busy |
| 33 | NO_ANSWER | 0xE0 | Unable to connect to remote dialing location due to there being no answer from remote modem |
| 34 | NO_DIAL_TONE | 0xE1 | There was no dial tone in the local modem. Possible reason is that the telephone line was not connected to the modem |
| 35 | MODEM_IS_NOT_ONLINE | 0xE2 | The modem was not online. |
| 36 | WIEGAND_FORMAT_NOT_SUPPORTED_BY_D EVICE | 0xE3 | The Wiegand Format specified during setting of device properties command is not supported by the firmware of the device used. |
| 37 | RETURN_CMD_MISMATCH | 0xE4 | - |
| 38 | TOO_MANY_CALENDAR_YEARS_TO_DNLOAD | 0x90 | The max calendar years to download have exceeded the limited of 2. |
| 39 | NO_CALENDAR_YEARS_CREATED_AT_HOST | 0x91 | No calendar years created at Host system. |
| 40 | NO_CALENDAR_DATA_TO_UPLOAD | 0x92 | - |
| 41 | NO_SCHEDULE_SETS_CREATED_AT_HOST | 0x93 | No Schedule sets were created at the Host system. |
| 42 | EXCEPTION_GENERATED | 0x95 | Errors during file access |
| 43 | FILE_NOT_FOUND | 0x96 | Errors during file access |
| 44 | ERROR_FILE_READ | 0x97 | Errors during file access |
| 45 | ERROR_FILE_WRITE | 0x98 | Errors during file access |
| 46 | ERROR_FILE_CREATE | 0x99 | Errors during file access |

| 47 | INVALID_SCHEDULE_CNT_IN_INI_FILE | 0x9a | There was a invalid entry in the Sch.ini file | | | | | |
|-----|-----------------------------------|------|--|--|--|--|--|--|
| 48 | GENERAL_FILE_SYSTEM_ERROR | 0x9b | Errors during file access | | | | | |
| Tem | Template On Card Function Status | | | | | | | |
| 1 | NO_CARD | 0xE5 | No card was presented on the card reader | | | | | |
| 2 | WRONG_KEY | 0xE6 | A wrong key was used to access the card | | | | | |
| 3 | WRONG_SIGNATURE | 0xE7 | The card does not have a signature personalized by Keri Systems, Inc. | | | | | |
| 4 | FAIL_WRITEVERIFY | 0xE8 | Fail Write verify | | | | | |
| 5 | FAIL_WRITE | 0xE9 | Fail to write to card | | | | | |
| 6 | FAIL_TO_READ_KEY | 0xEA | Unable to read the system key | | | | | |
| 7 | FAIL_TO_INIT_HARDKEY | 0xEB | Unable to initialize the HardKey | | | | | |
| 8 | FAIL_TO_LOAD_COMP_LIB | 0xEC | Unable to load the component library | | | | | |
| 9 | FAIL_TO_GET_COMP_FN | 0xED | Unable to load the component function | | | | | |
| 10 | TEMPLATE_NON_EXIST | OxEE | User request for a template from the card that does not exist. | | | | | |
| 11 | FAIL_LOAD_CONVERT_LIB | 0xEF | Fail to load covert library | | | | | |
| 12 | WRONG_CARDTYPE | 0xF0 | The card type the user selected while doing an verify is not the same as the actual card type of the card. | | | | | |
| 13 | WRONG_PIN | 0xF1 | The pin the user tries to verify with is not the actual pin registered in the card. | | | | | |
| 14 | UNDEFINE_USER_MASTER | 0xF2 | Attempt to register a card with an invalid master/user type selection | | | | | |
| 15 | FAIL_TO_RESET_READER | 0xF3 | Command to reset the reader (Mifare) did not execute successfully. | | | | | |
| 16 | USER_ID_EXCEED_LIMIT | 0xF4 | - | | | | | |
| 17 | UNKNOWN_ERROR | 0xF5 | Unknown error | | | | | |
| 18 | READER_RETURN_ERRORCODE | 0xF6 | An error code has been returned by the reader (Legic) | | | | | |
| 19 | CMD_EXEC_FAIL | 0xF7 | Fail to execute CMD | | | | | |
| 20 | INVALID_DATE | 0xF8 | An invalid expiry date was selected while trying to set. | | | | | |
| 21 | INVALID_CALENDAR_YEAR_TO_DOWNLOAD | 0xF9 | The calendar year to download is invalid. | | | | | |

Table 6(b): List of Function Status (For TCP/IP communication)

| | Constant | Value | Description |
|---|---------------------|-------|-------------------------|
| 1 | COMMAND_SUCCESS | 0 | Command was successful |
| 2 | COMMAND_IN_PROGRESS | 0xA0 | Command in progress |
| 3 | CONNECT_IN_PROGRESS | 0xA1 | Connection in progress |
| 4 | COMMAND_TIMEOUT | 0xA2 | Command timeout |
| 5 | CONNECTION_FAIL | 0xA3 | Connection fail |
| 6 | DEVICE_CONNECTED | 0xA4 | Device was connected |
| 7 | DEVICE_DISCONNECTED | 0xA5 | Device was disconnected |

| 8 | INVALID_PARAMETER | 0xA6 | An invalid parameter was passed in to the function | |
|----|--|------|---|--|
| 9 | RECEIVE_FOOTER_WRONG | 0xA7 | Expected ETX, indicating the end of a packet was not received | |
| 10 | RECEIVE_HEADER_WRONG | 0xA8 | Expected STX, indicating the start of a packet, was not received | |
| 11 | FAL_RECEIVED | 0xA9 | Error code received from Reader | |
| 12 | NAK_RECEIVED | 0xAA | Not-Acknowledge received from Reader (Reader is busy) | |
| 13 | SCHEDULE_NUMBER_NOT_FOUND | 0xAB | Specified schedule number was not found | |
| 14 | CALENDAR_YEAR_NOT_FOUND | 0xAC | Specified calendar year was not found | |
| 15 | ABORT_FINGER_CAPTURE | 0xAD | Fingerprint capture was aborted | |
| 16 | FAIL_TO_LOAD_CONVERT_DLL | 0xAE | Fail to load the DLL needed to convert the template to proper format | |
| 17 | FAIL_TO_CONVERT_TEMPLATE | 0xAF | Fail to convert template to proper format | |
| 18 | CRC_MISMATCH_AT_HOST | 0xB0 | CRC mismatch of the Host received packet | |
| 19 | NO_SCHEDULE_SETS_TO_UPLOAD | 0xB1 | No schedules to upload from the device | |
| 20 | INVALID_REPLY | 0xB2 | Received packet was not expected for the command executed although the packet was received without any errors. | |
| 21 | WIEGAND_FORMAT_NOT_SUPPORTED_BY_D EVICE | 0xB3 | The Wiegand Format specified during setting of device properties command is not supported by the firmware of the device used. | |
| 22 | INVALID_CALENDAR_YEAR_TO_DOWNLOAD | 0xB4 | The calendar year to download is invalid. | |
| 23 | TOO_MANY_CALENDAR_YEARS_TO_DNLOAD | 0x90 | The max calendar years to download have exceeded the limited of 2. | |
| 24 | NO_CALENDAR_YEARS_CREATED_AT_HOST | 0x91 | No calendar years created at Host system. | |
| 25 | NO_CALENDAR_DATA_TO_UPLOAD | 0x92 | - | |
| 26 | NO_SCHEDULE_SETS_CREATED_AT_HOST | 0x93 | No Schedule sets were created at the Host system. | |
| 27 | EXCEPTION_GENERATED | 0x95 | Errors during file access | |
| 28 | FILE_NOT_FOUND | 0x96 | Errors during file access | |
| 29 | ERROR_FILE_READ | 0x97 | Errors during file access | |
| 30 | ERROR_FILE_WRITE | 0x98 | Errors during file access | |
| 31 | ERROR_FILE_CREATE | 0x99 | Errors during file access | |
| 32 | INVALID_SCHEDULE_CNT_IN_INI_FILE | 0x9a | There was a invalid entry in the Sch.ini file | |
| 33 | GENERAL_FILE_SYSTEM_ERROR | 0x9b | Errors during file access | |
| 34 | ERROR_FILE_SIZE | 0x9c | Error during file access | |
| 35 | FAIL_TO_READ_KEY | 0xEA | Unable to read the system key | |

The Reader returns this list of error codes (Table 6(b)) if the command fails.

| | Constant | Value | Description |
|----|--------------------------------|-------|---|
| 1 | ОК | 0x00 | No error, successful |
| 2 | NOT_OK | 0x01 | General Reader error |
| 3 | VALID_DATA | 0x02 | - |
| 4 | NO_VALID_DATA | 0x03 | - |
| 5 | CRC_MISMATCH | 0x04 | CRC check fail |
| 6 | PORT_ID_MISMATCH | 0x05 | Device ID mismatch |
| 7 | INVALID_CMD | 0x06 | Command was invalid |
| 8 | ERROR_IN_READING_FLASH | 0x07 | Error in reading from the flash |
| 9 | ERROR_IN_WRITING_FLASH | 0x08 | Error in writing to the flash |
| 10 | DATA_MISCOMPARE | 0x09 | Mismatch when data read back from flash is different from that just written |
| 11 | ALL_TEMPLATE_SLOTS_FILLED | 0x0A | User has enrolled all 3 fingerprints |
| 12 | WRONG_FINGER_PRINT_SEQ | 0x0B | Expected minutiae (either 1 or 2) was not received by the Reader during a download operation |
| 13 | INCOMPATIBLE_PKT | 0x0C | Subsequent packet from Host was not the expected one (during a handshaking transmission) |
| 14 | FLASH_IS_FULL | 0x0D | Flash storage limit has been reached |
| 15 | INVALID_TEMPLATE_NUM | 0x0E | Fingerprint number to enroll can only be 1, 2 or 3. (Invalid parameter) |
| 16 | REQ_TEMPLATE_NUM_IS_NOT_FILLED | 0x0F | The requested fingerprint number has not been enrolled |
| 17 | USER_NOT_FOUND | 0x10 | User was not found in the Reader's database |
| 18 | SEQ_NO_BEYOND_RANGE | 0x11 | Sequence number (or record number) used to query User's ID or Master's ID has exceeded either the maximum number of Users or Masters |
| 19 | RECORD_ALREADY_A_MASTER | 0x12 | - |
| 20 | RECORD_ALREADY_A_USER | 0x13 | - |
| 21 | SCHEDULE_NUMBER_NOT_WRITTEN | 0x14 | Schedule number was not assigned to User |
| 22 | GROUP_NUMBER_NOT_WRITTEN | 0x15 | Group number was not assigned to User |
| 23 | AUX_DEVICE_NOT_SUPPORTED | 0x16 | Auxiliary device is not found in the device |
| 24 | YEAR_NOT_FOUND | 0x17 | Requested year (to upload) was not found in the Reader |
| 25 | INVALID_TEMPLATE_COUNT | 0x18 | - |
| 26 | AUTHENTICATE_FAILED | 0x19 | Authenticating the Master fingerprint fail |
| 27 | ERROR_IN_WRITE_OR_ERASE_EEPROM | 0x1A | Error in writing or erasing the EEPROM |

Table 6(c): List of Error Codes

| 28 | TIME_OUT | 0x1B | Reader has timed-out while waiting for a packet from Host |
|----|---|------|---|
| 29 | DATA_BEING_PURGED | 0x1C | Data from Host has been purged. May due to an incomplete packet received |
| 30 | NO_RECORDS_TO_SEND | 0x1D | Reader has no more log records to sent |
| 31 | INVALID_SCHEDULE_NUMBER | 0x1E | Schedule number assigned to User was invalid (ie. it has the value of either 0 or 0xFF) |
| 32 | SCHEDULE_SET_NOT_WRITTEN | 0x1F | The Schedule Set was not written yet |
| 33 | GROUP_DETAILS_NOT_WRITTEN | 0x20 | The Group Details Set was not written yet |
| 34 | EEPROM_DATA_MISCOMPARE | 0x21 | Data read back from EEPROM is different from that just written |
| 35 | ID_NOT_USED | 0x22 | - |
| 36 | ID_USED | 0x23 | - |
| 37 | INCONSISTENT_MASTER_OR_USER_TYPE | 0x24 | A user is already enrolled with a status indicating either a USER or MASTER, but subsequent 2 nd or 3 rd fingerprint enrolment tries to enroll a different status |
| 38 | ERROR_WRITING_TO_ENGINE | 0x25 | Error writing to the fingerprint engine |
| 39 | ERROR_READING_FROM_ENGINE | 0x26 | Error reading from the fingerprint engine |
| 40 | ERROR_IN_DELETING_RECORD_FROM_ENGINE | 0x27 | Error in deleting a record from the fingerprint engine |
| 41 | ERROR_IN_DELETING_ALL_REC_FROM_ENGINE | 0x28 | Error in deleting all records from the fingerprint engine |
| 42 | ERROR_IN_REC_CNT_AFTER_OPS | 0x29 | - |
| 43 | ERROR_IN_GETTING_REC_CNT | 0x2A | Error in getting the record count from the fingerprint engine |
| 44 | NO_TEMPLATEID_EXIST_FOR_USER | 0x2B | User has not enrolled any fingerprints |
| 45 | INVALID_TEMPLATE_ID | 0x2C | Template ID assigned was zero |
| 46 | CURRENT_DATE_OUTSIDE_VALIDITY_PERIOD | 0x2D | - |
| 47 | SPECIFIED_GROUP_NOT_FOUND | 0x2E | - |
| 48 | INVALID_MASTER_USER_FLAG | 0x2F | Master User flag passed in during enrolment is invalid |
| 49 | INVALID_SEQUENCE_NUMBER | 0x30 | Sequence number passed in during querying of User's ID or Master's ID was zero |
| 50 | MAX_SCHEDULE_SETS_COUNT_EXCEEDED | 0x31 | Number of schedule sets to download has exceeded the maximum allowed |
| 51 | ACCESS_DENIED_OUTSIDE_SCHEDULE | 0x32 | - |
| 52 | INVALID_DAY_TYPE | 0x33 | - |
| 53 | TIME_ZONE_INFO_NOT_WRITTEN_FOR_DAY_TYP E | 0x34 | - |
| 54 | SPECIFIED_SCH_SET_NOT_IN_STORE | 0x35 | - |
| 55 | INVALID_OPERATION_MODE | 0x36 | |
| 56 | INVALID_MAX_FINGERPRINT | 0x37 | - |

| 57 | INVALID_PIN_NUMBER | 0x38 | PIN number must not be zero during enrolment |
|----|---|-------------|--|
| 58 | NO_PIN_WRITTEN | 0x39 | No PIN was registered for this User |
| 59 | ERROR_ATTEMPT_TO_USE_PIN_WITH_FP | 0x3A | User was already fingerprint-enrolled |
| 60 | PIN_ALREADY_ASSIGNED_TO_USER | 0x3B | User was already Card/PIN enrolled |
| 61 | CAPACITY_OF_FP_ENGINE_REACHED | 0x3C | Capacity of fingerprint engine has reached |
| 62 | WIEGAND_CODES_MISCOMPARE | 0x3D | Mismatch detected during comparison of the Wiegand codes |
| 63 | WIEGAND_CODES_NOT_WRITTEN | 0x3E | Wiegand codes has not been written yet for Card user |
| 64 | INVALID_PARAMETER_SENT_TO_DEVICE | 0x3F | An invalid parameter was passed in and sent to the Reader |
| 65 | AUTHENTICATED_SEQUENCE_WAS_NOT_STARTED | 0x40 | The authentication sequence has not been initiated yet |
| 66 | AUTHENTICATED_SEQUENCE_HAS_EXPIRED | 0x41 | The authenticated sequence has already expired by its timeout. |
| 67 | LOG_DATE_NOT_FOUND | 0x42 | When requesting for log record to be sent starting from a specific date, this date was not found. |
| 68 | GAIN_AND_EXPOSURE_NOT_WRITTEN | 0x43 | The engine gain and exposure values for the particular user were not written. |
| 69 | WRITE_FLASH_PROHIBITED | 0x44 | Not permitted to write to the data flash because it has already been written. Used for log records only. |
| 70 | LOG_DATE_TO_SET_LATER_THAN_LAST_SENT_D ATE | 0x45 | This error will occur during pointing the log upload pointer to a specific date, if the desired date is later the date of the last record sent. |
| 71 | JOB_CODE_DOES_NOT_EXIST | 0x46 | - |
| 72 | EXCEPTION_LIST_FULL | 0x47 | - |
| 73 | NO_JOB_RECORDS_IN_DEVICE | 0x48 | - |
| | Specific errors related to the Fit | ngerprint l | Engine |
| 1 | M2ERROR_FLASH_OPEN | 0x51 | Command from main memory or host to access flash memory failed due to problem(s) in flash memory |
| 2 | M2ERROR_SENSOR_OPEN | 0x52 | Failed due to optical unit |
| 3 | M2ERROR_REGISTER_FAILED | 0x53 | Registering fingerprint failed |
| 4 | M2ERROR_VERIFY_FAILED | 0x54 | Verifying fingerprint failed |
| 5 | M2ERROR_ALREADY_REGISTERED_USER | 0x55 | UserID already exists |
| 6 | M2ERROR_USER_NOT_FOUND | 0x56 | UserID is not found in FP database |
| 7 | M2ERROR_INVALID_PASSWORD | 0x57 | Password of Master is incorrect |
| 8 | M2ERROR_TIMEOUT | 0x58 | Failed to capture fingerprint in preset time |
| 9 | M2ERROR_DB_FULL | 0x59 | FP database has insufficient space to enroll a new user |
| 10 | M2ERROR_DB_WRONG_USERID | 0x5A | Failure in removing or verifying unregistered user |

| 11 | M2ERROR_DB_NO_DATA | 0x5B | Database has no data |
|----|----------------------------------|------|---|
| 12 | M2ERROR_EXTRACT_FAIL | 0x5C | Failed capturing feature points of fingerprint |
| 13 | M2ERROR_MEMALLOC_FAILED | 0x5D | Memory allocation failed |
| 14 | M2ERROR_SERIAL_OPEN | 0x5E | Communication with main Controller and Host through serial port failed |
| 15 | M2ERROR_NOT_IMPLEMENTED | 0x5F | Function not installed |
| 16 | M2ERROR_FUNCTION_FAILED | 0x60 | Call of function failed |
| 17 | M2ERROR_INSUFFICIENT_DATA | 0x61 | Received data size does not match the size defined in ExtraData |
| 18 | M2ERROR_FLASH_WRITE_ERROR | 0x62 | Writing in Flash Memory failed |
| 19 | M2ERROR_FLASH_READ_ERROR | 0x63 | Reading Flash Memory failed |
| 20 | M2ERROR_INVALID_PARAM | 0x64 | Parameter of packet is invalid |
| 21 | M2ERROR_MASTERFP_NOT_FOUND | 0x65 | Fingerprint of Master cannot be found (occurs when trying to proceed without Master registration) |
| 22 | M2ERROR_MASTERCOUNT_EXCEED | 0x66 | The number of master exceeds 5. No more than 5 masters can be registered |
| 23 | M2ERROR_AUTHENTICATE_FAIL | 0x67 | Verification of Master failed |
| 24 | M2ERROR_FPCHANGE_FAILED | 0x6A | Changing fingerprint failed |
| 25 | M2ERROR_IDENTIFY_FAILED | 0x6B | No fingerprint in database identifies fingerprint on input window |
| 26 | M2ERROR_FLASH_ERASE_ERROR | 0x6C | Failed to clear flash memory |
| 27 | M2ERROR_VERIFY_FAKE | 0x6D | Fingerprint to be verified is the same as previous fingerprint. Occurs when the fingerprint is input continually without taking off once. |
| 28 | M2ERROR_TIME_ERROR | 0x6E | It appears when error for time setting happens |
| 29 | M2ERROR_SEARCHING_FOR_IDENTIFY | 0x6F | FP engine sends ACK with error whenever searching 100 user inside for identity (in case taking long searching time). This value does not mean error. Host should wait next ACK when getting ACK with error |
| 30 | M2ERROR_INVALID_USERDATA_SIZE | 0x70 | The size of data is exceeded for the user portion when recording the value for host in user portion |
| 31 | M2ERROR_INVALID_USERDATA_ADDRESS | 0x71 | The portion of data is exceeded for user portion when recording the value for host in user portion |
| 32 | M2ERROR_MUST_BE_SET_DATA_LENGTH | 0x72 | The size of user portion for host is not set |
| 33 | M2ERROR_DUPLICATE_TEMPLATE | 0xF5 | Duplicate template |
| 34 | M2ERROR_TIMEOUT | 0xFA | Timeout by the FP Engine |
| 35 | M2ERROR_COMMAND_MISMATCH | 0xFB | Command mismatch between transmitted command and received reply |
| 36 | M2ERROR_RX_LENGTH_ERROR | 0xFC | Received packet length error |
| 37 | M2ERROR_ACK_TIME_OUT | 0xFD | ACK time-out |

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| 38 | M2ERROR_CHECKSUM_ERROR | 0xFE | Checksum error |
|----|-------------------------|------|----------------------------|
| 39 | M2ERROR_UNKNOWN_COMMAND | 0xFF | Command was not recognized |