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FING **C**RTEC

User Guide

# CONTENTS

### 3-4 1 • INTRODUCING WEBSTER

Webster - An Introduction

#### 5-14 2 • INSTALLING & CONFIGURING WEBSTER Installing the System Configuring Webster

### 15-18 3 • MANAGING FINGERTEC TERMINALS IN WEBSTER

Adding Terminals into Webster Editing Terminals in Webster Deleting Terminals in Webster Searching for Terminals Controlling the Terminals Understanding the Basic Information of Webster

### 19-21 4 • MANAGING USERS IN TERMINALS & WEBSTER

Uploading, Transferring, and Exporting User Data Searching for Users Editing and Deleting Users

### 22-23 5 • MANAGING TRANSACTIONS LOGS IN WEBSTER

Sorting Transaction Logs Exporting Transaction Logs Reading Transaction Logs

24-26 6 • CHECKING THE WEBSTER COMMAND AND SYSTEM LOG Webster Command System Log

#### 27-28 7 • REAL-TIME TRANSACTION AND USERS Monitoring Real-Time Transactions Monitoring Real-Time User Enrollment

### 29-33 8 • MANAGING, ADMINISTRATING, AND MAINTAINING WEBSTER

Managing Administrators Managing & Maintaining the Database

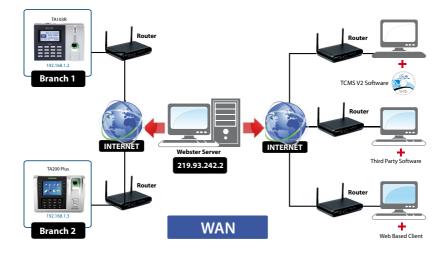
# 1 • Introducing Webster

# Webster - An Introduction

FingerTec Webster is a web platform that facilitates all FingerTec terminals to be integrated with a web application. It is built on the latest Microsoft Technology, Visual Studio .NET 2010 with the .NET Framework 4.0 as the system architecture, and runs on Microsoft Internet Information Services (IIS), supports MySQL database, and centralizes data from all FingerTec terminals through web to server in a real-time manner.

To use Webster, you will need to perform the installation at a server with a static IP address (Webster IP) to work as a host for FingerTec terminals to connect to. With Webster, FingerTec terminals can be installed at any location and still be able to connect to Webster as long as the terminals are connected to the server via LAN or WAN.

Once the Webster IP is inserted in the terminals, the Webster User Interface would show the terminal status as Online. The terminals will start to send data (e.g. User data, enrollment, transaction records, etc.) in real-time back to Webster through an active connection. In the event of a connection failure, the terminals will store the data into a buffer memory and resume sending the data once the connection is established again, hence avoiding any loss of data and records. Take a look at the diagram below for a better illustration:



Webster consolidates the data from FingerTec terminals into the MySQL database of the same server. MySQL is one of the most popular, reliable and fast open source database that facilitates software integration and data extraction. Software specialists will be able to integrate the raw data into their existing software or system, thus producing a complete and automated time attendance processing and third party software integration. To sum it up, Webster is a web based intermediate that links up FingerTec terminals, the MySQL database and a 3rd party software into a total web-based solution which allows access to users at any-time and any location via an Internet browser.

To highlight the differences between the conventional connection method and the Webster connection method, refer to the table below.

| CONVENTIONAL CONNECTION   | WEBSTER CONNECTION   |
|---|--|
| <ul> <li>Data is stored in each individual FingerTec</li></ul>  | <ul> <li>Data will be centralized and stored in the Web-</li></ul>   |
| terminal.   | ster server.   |
| <ul> <li>Data will need to be downloaded into the<br/>TCMS V2.</li> </ul>   | <ul> <li>Data is uploaded to the Webster server in a real-time manner.</li> </ul>  |
| <ul> <li>Data is downloaded into a single TCMS V2</li></ul>   | <ul> <li>TCMSv2 along with any third party software</li></ul>  |
| software making it difficult to enable data   | will be able to login to Webster to download   |
| sharing between applications.   | data for processing.   |
| <ul> <li>An installation of the TCMSv2 or BioBridge<br/>is a must to control and manage the ter-<br/>minals.</li> </ul> | <ul> <li>Once Webster is installed on the server, all ter-<br/>minal management will be web-based. There'll<br/>be no need for additional installations on the<br/>client PC.</li> </ul> |
| • For multiple-site installation, configura-  | <ul> <li>After the installation of Webster, simply con-</li></ul>  |
| tion on the router / port forwarding needs  | figure the terminals at multiple-sites to con-   |
| to be done at each router on each site.   | nect to the Webster server.  |

Webster provides a User Interface for system administrators to browse the attendance records stored in the MySQL database. This will be raw data downloaded from the terminals, which show the user ID, date, and time of verification. The system integrator and software developers can fully utilize the records from the MySQL database, to process time attendance analysis and payroll calculations accordingly.

Webster also provides a simple User Interface for system administrators to transfer user data among FingerTec terminals. Users will not need to re-enroll at new terminals should they relocate to a new workstation / office. This is useful for companies with multiple branches and outlets where employees relocations are common and often occur.

### Note

Webster is not a complete time attendance solution. It is only an intermediate to facilitate FingerTec terminals into a web-based management, and consolidate data into a centralized database. It does not provide any attendance analysis, but only raw data viewing line by line. It does not provide attendance reports, because it is not integrated with any calculation logic. It cannot change any access control settings in FingerTec terminals, such as time zones, door lock settings etc.

For more optimized and advanced time attendance and access control configuration, FingerTec recommends that you use the complimentary bundled software, TCMS V2 or the web-based attendance solution, TimeTec.

# 2 • Installing & Configuring Webster

# Installing the System

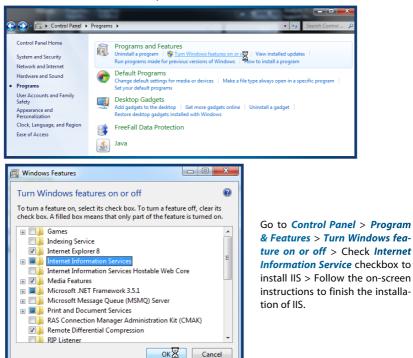
For Webster to function properly, these components need to be installed first:

- Internet Information Services
- Microsoft .Net Framework 4.0
- MySQL server
- MySQL Connector ODBC 3.51
- FingerTec Webster

Make sure the server has been installed with the above components before attempting to install Webster. The install shield will run a test to check that the components have been installed before proceeding with the installation.

### **INSTALLING THE INTERNET INFORMATION SERVICE (IIS)**

The IIS comes with the Windows Operating System and should be installed by the administrator. To install it, follow the steps below.



### **INSTALLING MICROSOFT .NET FRAMEWORK 4.0**

Download the installation file at http://www.microsoft.com/download/en/details. aspx?id=17851 > Run the installation file and follow the instructions to start to install Microsoft .Net Framework 4.0

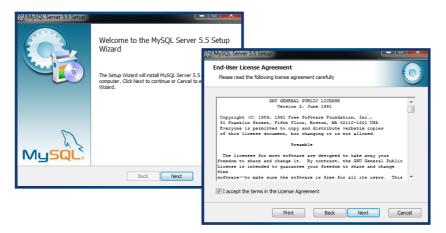
| Microsoft Search Download (  | Center bing 🙆 PRO                                      | DUCTS STORE DOWNLOADS SUPPORT  | United States (English) |
|--|--|--|-------------------------|
| Download Ce  | nter   |  |                         |
| Windows Office Product   | t downloads Download categories                        | Security Resources   |                         |
| Microsoft Microso  | ft .NET Framework 4                                    | ł (Web Installer)  | 🔂 Subscribe             |
| Quick links<br>• Overview<br>• System requirements<br>• Instructions<br>• Additional information | Framework components re<br>Internet connection is requ | work 4 web installer package downlo.<br>equired to run on the target machine<br>uired during the installationNET Frar<br>ons to target the .NET Framework 4. | architecture and OS. An |
|  | Quick details  |  |                         |
|  | Version: 4<br>Change Language: Englis                  | Date Published:  | 2/21/2011               |
|  | File Name  | Size   |                         |
| Make it great with   | dotNetFx40_Full_setup.exe                              | 869 KB   | DOWNLOAD                |

Read and accept the license agreement > The installation requires an Internet connection to download and install the component into the server. Make sure an Internet connection is available. > Follow the on-screen instructions to complete the installation.

| Please accept the license terr |                      | Microsoft .NET Framework 4 Setup   |    |
|--------------------------------|----------------------|--|----|
|                                |                      | Installation Progress Please wait while the .NET Framework is being installed. | i. |
| MICROSOFT S                    | OFTWARE              |  |    |
| I have read and accept th      | e license terms.     | le la                                      |    |
|                                |                      | Download progress:   | ×2 |
| Download size estimate:        | 11 MB                |  |    |
| Download time estimates:       | Dial-Up: 27 minutes  | Downloading Windows6.1-KB958488-v6001-x86.msu                                  |    |
|                                | Broadband: 2 minutes |  |    |
|                                |                      | Installation progress:   | 0  |
|                                |                      | Installing necessary components for .NET Framework                             |    |
|                                | Insta                |  |    |

### **INSTALLING THE MYSQL SERVER V5.5**

Webster requires the MySQL server version 5.5 to run smoothly. Download the installation file at http://www.mysql.com/downloads > Run the installation file to begin installation.



Click *Next* > Read and accept the License Agreement > Click *Next* to proceed.

| 🛃 MySQL Server 5.5 Setup   |  |
|--|--|
| Choose Setup Type<br>Choose the setup type that best suits your needs  |  |
|  | 🖗 MySQL Server 5.5 Setup   |
| Typical<br>Installs the most common program features. Recommended for mos  | Ready to install MySQL Server 5.5  |
| Custom<br>Allows users to choose which program features will be installed and<br>they will be installed. Recommended for advanced users. | Click Install to begin the installation. Click Back to review or change any of your<br>installation settings. Click Cancel to exit the wizard. |
| Complete<br>All program features will be installed. Requires the most disk space.  |  |
| Back Next  |  |
|  |  |
|  | Back Install Cancel  |

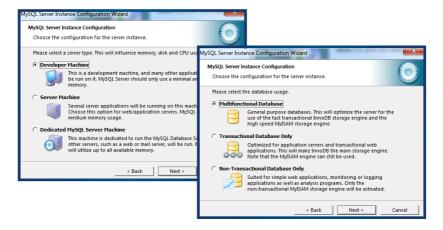
Select *Typical* > Click *Install* to begin the installation process.

| MySQL Server 5.5 Setup |   |   |   |
|------------------------|---|---|---|
|                        | Completed the MySQL Server 5.<br>Wizard           | 5 Setup<br>MySQL Server Instance Config | uration Wizard  |
|                        | Click the Finish button to exit the Setup Wizard. |   | Welcome to the MySQL Server Instance<br>Configuration Wizard 1.0.17.0                                     |
|                        |   |   | The Configuration Wizard will allow you to configure<br>a MySQL server instance. To continue, click Next. |
| E                      |   |   |   |
| MySQL                  | ✓ Launch the MySQL Instance Configuration V       |   |   |
|                        | Back Finish                                       | ES.                                     |   |
|                        |   | MySQL                                   |   |
|                        |   |   | Cancel  |

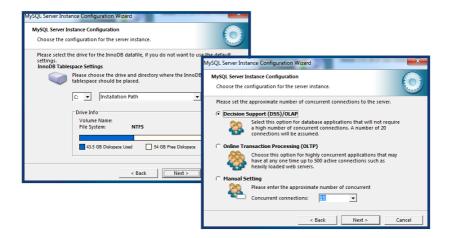
Wait for the installation of the MySQL to be complete > Check the checkbox to Launch the MySQL Instance Configuration Wizard > Finish > Start to configure the MySQL server.

| MySQL Server Instance Configuration Wizard   |   |
|--|---|
| MySQL Server Instance Configuration<br>Choose the configuration for the server instance.                                 |   |
| Several MySQL server installation were found on your system.   | MySQL Server Instance Configuration Wizard  |
| Please choose a server instance to be altered.           Server         Version         Service Name         Config File | MySQL Server Instance Configuration<br>Choose the configuration for the server instance.  |
| MySQL Server 4.1 4.1.16 C:\Program Fil<br>MySQL Server 5.5 5.5.8 C:\Program Fil  | Please select a configuration type.   |
|  | Coose this configuration type to create the optimal server setup for this machine.  |
| < Back Next >  | C Standard Configuration Use this only on machines that do not already have a MySQL server installation. This will use a general purpose configuration for the server that can be tuned manually. |
|  | < Back Cancel   |

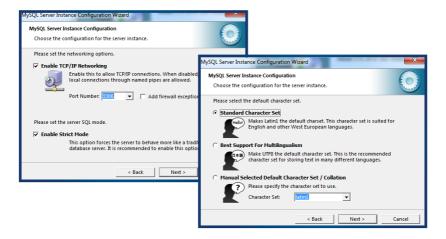
If the server is installed with an older version of MySQL server, the system will advise the administrator > Select to use the latest version, v5.5.8 > *Next* > Select *Detailed Configuration* and Click *Next* 



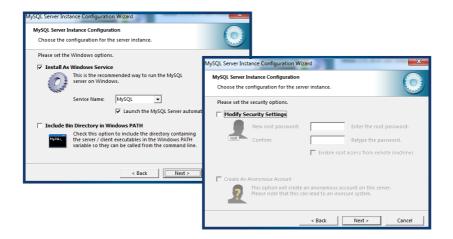
Select Developer Machine > Click Next > Select Multifunctional Database > Click Next



Select Database Support (DSS)/OLAP > Click Next

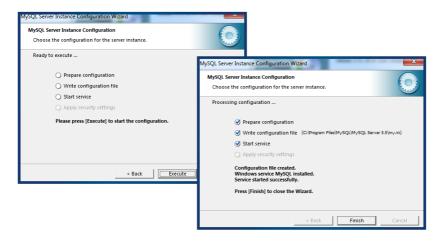


### Select Standard Character Set > Click Next



Uncheck *Modify Security Settings* if the administrator does not want to change the default login name and password of the MySQL server (default login name = root, password = <blank>) > Click *Next* 

If the Administrator would like to change the login name and password, check *Modify Security Settings* and insert login password to proceed.



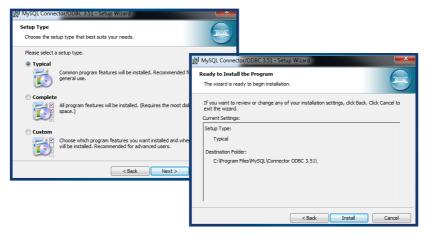
Click *Execute* > Wait for the system to complete the configuration > Click *Finish* to end the process.

### **INSTALLING THE MYSQL CONNECTOR ODBC 3.5.1**

Webster requires the MySQL Connector ODBC 3.51 to work with the MySQL database. Download the installation file at http://www.mysql.com/downloads/connector/ odbc/3.51.html

| 词 MySQL Connector/ODBC 3 | .51 - Setup Wizard  |   |
|--------------------------|---|---|
|                          | Welcome to the Setup Wizard for<br>Connector/ODBC 3.51<br>The Setup Wizard will install MySQL Connect<br>release 3.51.28 on your computer. To contr |   |
|                          |   | Please read the following license agreement carefully.  |
|                          |   | GNU GENERAL PUBLIC LICENSE A<br>Version 2, June 1991  |
| E. C.                    |   | Copyright (C) 1989, 1991 Free Software Foundation, Inc.<br>59 Temple Place - Suite 330, Boston, MA 02111-1307, USA              |
| MySQL                    | < Back Next >   | Everyone is permitted to copy and distribute verbatim<br>copies<br>of this license document, but changing it is not<br>allowed. |
|                          |   | <ul> <li>I accept the terms in the license agreement</li> <li>I do not accept the terms in the license agreement</li> </ul>     |
|                          |   | < Back Next > Cancel  |

Run the installation file > Click *Next* > Read and accept the License Agreement > Click *Next* 



Select Typical > Click Next > Click Install > Click Finish

### **INSTALLING WEBSTER**

After successfully installing the previous components, you may proceed to install FingerTec Webster.

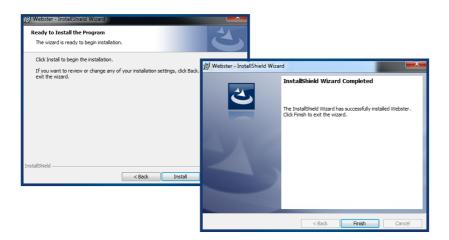
Run the Setup.exe file to begin installation. For Windows Vista, Windows 7 and Windows 8 users, right click and select *Run As Administrator* to run the Setup.exe.

| 🕞 Webster - InstallShield Wizar | rd  |   |
|---------------------------------|---|---|
| ٢                               | Welcome to the InstallShield Wiza<br>Webster  |   |
|                                 | The InstallShield(R) Wizard will install Webste<br>computer. To continue, click Next. | 🔁 Webster - InstallShield Wizard                    |
|                                 |   | Customer Information Please enter your information. |
| $\geq$                          | WARNING: This program is protected by cop<br>international treaties.                  | Liser Name:   |
|                                 |   | 2) per anom   |
|                                 | < Back Next >   |   |
|                                 |   |   |
|                                 |   | InstallShield < Back Cancel                         |

Click Next and insert the relevant information. Click Next to continue.

| Webster - InstallShield Wizard   |                   |   |
|--|-------------------|---|
| Database Server<br>Select database server and authentication method  | と                 |   |
| Database server that you are installing to:           Installing to:   |                   | tup type that best suits your needs.  |
| windows autointication using the Login IID and password below     Login ID: root     Password:     Name of database catalog: | Please select a   |   |
| webter<br>InstatShield   | © Custom          | Choose which program features you want installed and where they<br>will be installed. Recommended for advanced users. |
|  | InstallShield ——— | < Back Next > Cancel  |

Insert the IP address of the MySQL server. Insert "localhost" if the MySQL server has been installed in the same server. Insert the Login ID and Password to connect to the MySQL server and click *Next*. Select *Complete* and click *Next* to continue.



Click Install to begin the installation. Once the process is complete, click Finish to continue.

Now, Webster and its components are successfully installed into the server.

**To run Webster:** Open Internet Browser > Insert the IP address of the Webster server in the address bar (e.g. 192.168.1.201/Webster) > Fill in default login username and password (default login username: admin; password: admin) > Click Login.

# **Configuring Webster**

|  | b applications  |        | ÷ |      |              | Page Star       | vehste<br>ster vebster<br>vebster vebster<br>webster<br>ster vebster<br>ster vebster |                   |
|--|---|--------|---|------|--------------|-----------------|--|-------------------|
| Welcome, admin   |   |        |   | Home | Account Info | Change Password | Logout   | Select Language 💌 |
| Data Management Terminal List Transaction User Webster Command Terminal System Log System Configuration User Management Database Management System Configuration | System Configu<br>Date Format :<br>Time Format :<br>Auto Refresh Interval(s) :<br>Number of grid rows per<br>page :<br>Real Time Monitoring Row : | 100    |   |      |              |                 |  |                   |
| Kontoring<br>Real Time Transaction<br>Real Time Vester<br>Real Time Webster Command<br>Real Time Terminal System Log   | System Email Settings<br>SMTPServer :<br>Port :<br>Email :<br>Password :<br>Confirm Password :  | Submit |   |      |              |                 |  |                   |

Now that Webster is successfully installed, it is time to set some basic configuration. Click on System Configuration to start configuring the Webster.

Auto refresh interval: Defines how fast Webster refreshes its database to publish the latest information.

Number of grid rows per page: Justifies how many rows to be displayed on a page.

Real-time monitoring row: Justifies how many rows to be displayed as real-time records on a page.

You may configure the System Email Settings if the administrator would like Webster to send an email to the administrator if he/she forgets the login username and password. This function requires an SMTP Server address.

Email: Email address to be used.

Password: Login password of the email address.

# 3 • Managing FingerTec Terminals in Webster

The Terminal List page displays all the FingerTec terminals that are connected to the Webster server.

| Welcome. admin   | applications   | + <  | Home          | Account Info                         | Change Password   |                      |
|--|--|--|---------------|--------------------------------------|---|----------------------|
| Data Management Terminal List Transaction User Webster Command Terminal System Log System Configuration Monitoring | Terminal List       Serial No :       Device Name :       IP Address :       Search       Check Reader       Reload Option       Reload Option   | Info Clear Log Clear All Data  | Transfer Data | To Device                            | •   |                      |
| 3  | Entral Exercise         Reside         Paradia           Edit Extents         7216765         TA303RC         1           S* 0         Copyright 6 2 0         Copyright 6 2 0         Copyright 6 2 0 | idio Firmance Algorithm<br>Version Version<br>Version 125<br>2011 10<br>2011 10<br>2011 FingerTec Worldwide Limited, All # | FEMS10_TFT    | Irensation Uze<br>Count Count<br>2 1 | IP         IP Address           1         192.168.1.239           -1         (Total Record(s): 1) | 09:55:43 AM 11:45:13 |

- **1** Searching a terminal by serial number, device name or IP address
- 2 Basic command buttons
- Bisplay table of device information.

### Adding Terminals into Webster

The administrator does not need to add FingerTec terminals manually into Webster. The terminals connect to Webster automatically by referring to the Webster IP address which has been preset in the terminal settings.

Set **COMM option** in the FingerTec terminal **(**) Insert IP address, Gateway and Subnet mask **(**) Insert Webster IP address (static IP address of the Webster server) **(**) Restart terminal to take effect.

The terminal takes time to connect to the Webserver IP address. Once connected, the administrator will see the basic information of the terminal displayed on the Terminal List as below:



Check the following settings if the page does not display any information of the terminals:

- Internet connection Make sure the Webster server and the terminals are connected to the Internet.
- Firewall and Antivirus settings of the Webster server.
- IP address, Gateway, Subnet mask and Webster IP address set in the terminal.

### Editing Terminals in Webster

Click the *Edit* button next to the relevant FingerTec terminals to edit the basic information of the terminals.



Now the administrator can insert or change the Device ID of the terminals. It is recommended to name the terminals for easy reference, for example, "Time Clock at HQ". Click *Update* to save changes.

### **Deleting Terminals in Webster**

The administrator can delete any of the terminals via Webster if it is not in use. Click *Delete* and *OK* to confirm and delete the terminal.



### **BATCH PROCESSING – DELETE OR EDIT**

In case the administrator wants to edit or delete multiple terminals, this can be done by batch processing: Select relevant terminals 
Select Batch Edit or Batch Delete



# Searching for Terminals

| Serial No :   |        |
|---------------|--------|
| Device Name : |        |
| IP Address :  | Search |

An administrator can search for a terminal by its serial number, device number or IP address. Insert either one information into the relevant data field and click *Search* to find the terminal. The results will be displayed at the bottom in a table format (section 3).

# Controlling the Terminals

Check Reader Reload Option Reboot Get Info Clear Log Clear All Data Transfer Data To Device

Section **2** lists the basic command buttons that allow you to interact with the FingerTec terminals. The administrator must select the terminals by checking the checkbox next to the serial number of terminal, then select the relevant command.

Check reader: Identifies the connectivity status of the terminal, Online (terminal is connected to Webster) or Offline (terminal is not connected to Webster). It is advisable to check the connectivity status of the terminal before starting an operation.

Reload Option: If an administrator changes any connection settings in the terminals, the administrator must refresh the information in Webster by clicking this button.

Reboot: Restarts the terminal remotely.

Get Info: Downloads basic information from the terminal and displays it in the table, for example, firmware version, algorithm version, total number of users, etc. Clear log: Deletes all stored transaction logs in the terminal. Once deleted, the transaction logs are unable to be restored or retrieved again. Only perform this operation if the terminal is almost reaching its storage limit. Make sure that you have already retrieved and stored all the transaction logs into the Webster server before performing this step.

Clear All Data: Deletes all user information and transaction logs stored in the terminal. This is to initialize the terminal by emptying its buffer memory.

Transfer Data To Device: to copy all user information from 1 terminal and transfer them to another terminal.

Webster needs a LAN/WAN connection to send commands to the terminals. If the connection is disrupted or the terminal is shut down, Webster will not be able to send commands to it. In this situation, Webster will then keep and queue the commands and execute them? when the connection or terminal resumes operation. It is recommended to check the Real Time Webster Command page (Chapter 7 Monitoring) to check the status of the commands.

In the example below, an administrator is trying to copy user information from Terminal ID 1 to transfer them to Terminal ID 2. The steps are shown below:

| Serial No :<br>Device Name :<br>IP Address : |              |                              | earch               |                                   |                                    |               |                      |                             |             |                 |                        |                        |
|--|--------------|------------------------------|---------------------|-----------------------------------|------------------------------------|---------------|----------------------|-----------------------------|-------------|-----------------|------------------------|------------------------|
| Check Reader                                 | sload Option | n Reboot                     | Get Info            | Clear Log Clea                    | r All Data Tr                      | ansfer Data T | o Device             |                             |             |                 |                        |                        |
| Ser Ser                                      | I Device     | <u>Device</u><br><u>Name</u> |                     | <u>Firmware</u><br><u>Version</u> | <u>Algorithm</u><br><u>Version</u> |               | Transaction<br>Count | <u>User</u><br><u>Count</u> | EP<br>Count |                 |                        |                        |
| Edit Delete 🔽 8204                           | 92 2         | R2                           | Indonesia<br>Branch | Ver 6.20 Jul 18<br>2011           | 9                                  | FEM500        | 2                    | 3                           | 3           | 192.168.1.238   | 2011-09-26<br>14:41:31 | 2011-09-26<br>14:25:36 |
| Edit Delete 🔲 7116                           | 55 1         | TA103RC                      | Malaysia HQ         | Ver 6.60 Jul 25<br>2011           | 9                                  | FEM510_TFT    | ٩                    | Q                           | 0           | 192.168.1.239   | 2011-09-26<br>14:42:14 | 2011-09-26<br>14:25:39 |
| ₽∕ ⊠↑  |              |                              |                     |                                   |                                    |               |                      | 1-2 (To                     | al Reco     | rd(s): 2) Curre | nt page: 1 💌           |                        |

1. Select the terminal to copy data in Click Transfer Data To Device

 Webster will alert you to define the destination of terminal to transfer the data to. Select the terminal and click OK. The screen will display a Success message. However, the operation might be pending due to an unavailable connection. To double check the status, go to *Real Time Webster Command*.



3.Go to *Monitoring* **>** *Real Time Webster Command*. In this window, Webster lists all the commands that are queued or completed.

|       | Real Time | e Webster Comm     | and     |           |             |                     |                     |                     |
|-------|-----------|--------------------|---------|-----------|-------------|---------------------|---------------------|---------------------|
| Seria | I No: All |                    | •       |           |             |                     |                     |                     |
| No.   | Serial No | Command            | User ID | Status    | Return Code | Request Time        | Response Time       | Complete Time       |
| NO.   |           |                    |         |           | Ketum Coue  |                     | Response nine       | Complete nine       |
| 1     | 7116765   | Upload Fingerprint | 1       | Pending   |             | 2011-09-26 14:43:43 |                     |                     |
| 2     | 7116765   | Upload User        | 1       | Pending   |             | 2011-09-26 14:43:43 |                     |                     |
| 3     | 7116765   | Upload Fingerprint | 2       | Pending   |             | 2011-09-26 14:43:43 |                     |                     |
| 4     | 7116765   | Upload User        | 2       | Pending   |             | 2011-09-26 14:43:43 |                     |                     |
| 5     | 7116765   | Upload Fingerprint | 3       | Pending   |             | 2011-09-26 14:43:43 |                     |                     |
| 6     | 7116765   | Upload User        | 3       | Pending   |             | 2011-09-26 14:43:43 |                     |                     |
| 7     | 7116765   | Download User/Data |         | Completed | 0           | 2011-09-26 14:41:42 | 2011-09-26 14:41:57 | 2011-09-26 14:41:57 |

4. When Webster completes the data transfer or any other command, the status will change to "Completed".

|       | Real Time | e Webster Comm     | nand    |           |             |                     |                     |                     |
|-------|-----------|--------------------|---------|-----------|-------------|---------------------|---------------------|---------------------|
| Seria | I No: All |                    | •       |           |             |                     |                     |                     |
| No.   | Serial No | Command            | User ID | Status    | Return Code | Request Time        | Response Time       | Complete Time       |
| 1     | 7116765   | Upload Fingerprint | 1       | Completed | 0           | 2011-09-26 14:43:43 | 2011-09-26 14:44:05 | 2011-09-26 14:44:06 |
| 2     | 7116765   | Upload User        | 1       | Completed | 0           | 2011-09-26 14:43:43 | 2011-09-26 14:44:05 | 2011-09-26 14:44:06 |
| 3     | 7116765   | Upload Fingerprint | 2       | Completed | 0           | 2011-09-26 14:43:43 | 2011-09-26 14:44:05 | 2011-09-26 14:44:06 |
| 4     | 7116765   | Upload User        | 2       | Completed | 0           | 2011-09-26 14:43:43 | 2011-09-26 14:44:05 | 2011-09-26 14:44:06 |
| 5     | 7116765   | Upload Fingerprint | 3       | Completed | 0           | 2011-09-26 14:43:43 | 2011-09-26 14:44:05 | 2011-09-26 14:44:06 |

Always check the Real Time Webster Command to confirm the command is completed. For more explanation, view Chapter 6.

# Understanding the Basic Information of Terminals

|     |                 | <u>Serial</u><br><u>No</u> | Device<br>ID | <u>Device</u><br><u>Name</u> | Firmware<br>Version     | <u>Algorithm</u><br><u>Version</u> |            | <u>Transaction</u><br><u>Count</u> | <u>User</u><br><u>Count</u> |   |               |                           | Created Time              |
|-----|-----------------|----------------------------|--------------|------------------------------|-------------------------|------------------------------------|------------|------------------------------------|-----------------------------|---|---------------|---------------------------|---------------------------|
| Edi | t <u>Delete</u> | 7116765                    |              | TA103RC                      | Ver 6.60 Jul 25<br>2011 | 10                                 | FEM510_TFT | ٥                                  | 1                           | 1 | 192.168.1.239 | 15-09-2011<br>09:55:43 AM | 14-09-2011<br>11:45:13 AM |

Section 3 is the check list of FingerTec terminals. The administrator can view the details of the FingerTec terminals as it appears in the table.

| Serial no: 7-digit serial number of the connected ter-   | the FingerTec terminal.   |
|--|---|
| minals.  | Platform: The version of core board of FingerTec ter-   |
| Device ID: The Device number set in FingerTec termi-<br>nals, varying from 1 to 999. No duplication of number  | minals. This is an important reference to a FingerTec<br>technical person to troubleshoot the terminal during                           |
| is allowed. The administrator can set the Dev ID and<br>update the changes to terminals.   | a system failure. The administrator does not have any authorization to edit this.   |
| Device Model: The specific model of the FingerTec ter-<br>minal.   | Transaction count: Total transaction logs (attendance records) saved in the terminal. All of these logs have                            |
| Description: The assigned name of the terminal for a<br>more accurate reference, for example: Time Clock at<br>HQ. The administrator can set the name of each termi- | already been uploaded to the Webster database. The<br>count is as an alert to the administrator about storage<br>limit of the terminal. |
| nal by editing the terminal information.   | User count: Total users stored in the terminal.   |
| Firmware version: The firmware version of the ter-   | FP Count: Total fingerprints stored in the terminal.  |
| minal. This is an important reference to a FingerTec   | IP Address: The unique IP address of the terminal.  |
| technical person to troubleshoot the terminal during<br>a system failure. The administrator does not have any<br>authorization to edit this.                         | Last Activity: The most recent upload time of terminal data (users or transaction logs) to Webster.                                     |
| Algorithm Version: The algorithm version supported by  | Created time: The date and time that the terminal first connected to Webster.   |
|  |   |

# 4 • Managing Users in Terminals & Webster

FingerTec terminals always uploads user information (user ID, privileges, fingerprints, passwords, and cards) to Webster after enrollment, and publishes it onto the User page. The process is fully automatic and does not require the administrator to regularly download the information from terminals. The User page is divided into 3 sections.

|   | b applications                               |           |         |        |               |             |               |                     |          |                 | Provide ster    | ter vebste<br>vebste<br>ster weiste<br>ster weiste |                 |
|---|--|-----------|---------|--------|---------------|-------------|---------------|---------------------|----------|-----------------|-----------------|--|-----------------|
| Welcome, admin  |  |           |         |        |               |             |               |                     | Home     | Account Info    | Change Password | Logout   | Select Language |
| Data Management Terminal List Transaction User Webster Command Terminal System Log System Configuration User Management Database Management | User ID :<br>Name :<br>Serial No :<br>Export | Use       |         | ad Tem | Search        | fer Data Te | Device        | 2                   |          |                 |                 |  |                 |
| System Configuration  |  | Serial No | User ID | Name   | Card Number   | r Privilege | User group    | Template Coun       | t C      | reated Time     |                 |  |                 |
| Monitoring  |  | 8204092   |         |        | 0             | User        | 1             | 1                   |          | 011 11:48:13 AM | B               |  |                 |
| Real Time Transaction   | Edit Delete                                  | 8204092   |         |        | 0             | User        |               | 2                   |          | 011 11:48:01 AM | <b>U</b>        |  |                 |
| Real Time User  |  |           | 1       |        | 0             |             | 1             |                     |          |                 |                 |  |                 |
| Real Time Webster Command<br>Real Time Terminal System Log  | ₽″ ⊠   | t         |         |        |               | 1-2 (Tot    | al Record(s   | ): 2) Current p     | age: 1   |                 |                 |  |                 |
|   |  |           |         | Cop    | yright © 2011 | FingerTec \ | Vorldwide Lin | ited. All rights re | eserved. |                 |                 |  |                 |

1 Searching users by user ID, name or serial number of terminal.

**2** Basic command button.

3 Table to display user data.

# Uploading, Transferring, and Exporting User Data

Export Upload User Upload Template Transfer Data To Device

Although user information is automatically updated from the terminals to Webster, the administrator can also add user information to the terminals via Webster by uploading and transferring data.

#### **UPLOADING USERS**

This process creates new users in the terminal without the user actually enrolling at the terminal. The administrator can upload user ID, password and Card ID to the terminal.

To create and upload new users: Select terminal by serial number 
→ Create new user ID (does not exist in the terminal) → Name the User → Insert Card ID (optional) → Define privilege → Insert password (optional) → Click *Upload User*.

| Serial No :      | 7116765     | ]       |
|------------------|-------------|---------|
| User ID:*        | 1           | ]       |
| Name :           | John        | ]       |
| Card Number :    | 8256624     | ]       |
| Privilege :      | 0 - User 💌  | ]       |
| Password :       | 1234        | ]       |
| * Required Field | Upload User | Add New |

### **UPLOADING TEMPLATES**

This process uploads fingerprint templates of users into the terminals. The administrator can copy and paste the fingerprint templates between terminals.

To copy users' fingerprint: Select terminal by serial number  $\Rightarrow$  Select a user ID  $\Rightarrow$  Select Fingerprint ID (number of fingerprint enrolled, start from 0 to 9)  $\Rightarrow$  Copy content in the *Template* column

To paste users' fingerprint: Select terminal by serial number  $\Rightarrow$  Select a user ID  $\Rightarrow$  Select Fingerprint ID  $\Rightarrow$  Select Valid  $\Rightarrow$  Paste the copied template into the *Template* column  $\Rightarrow$  Click *Upload Template* 

The fingerprint template is now uploaded into the terminal as the user's fingerprint.

| Serial No :<br>User ID<br>Finger ID : | 2                                 | Serial No : 8204092  User ID 3  Finger ID : 1  |
|---------------------------------------|-----------------------------------|--|
| Valid :                               | Valid voc 1gZgqUgFoSapPQU5QuW3BDE | Valid : Valid<br>BT6GFVGtuYFOhJRI4wMJST09ZdHB  |
| Template :                            | W9cUENQMNSQRRhx09BFmjVYEEL        | mWFF0Rz44wMJWF9vdH80XFVT5<br>Template : 0A4wM0250pycm50XIfVUJ0AwmOk<br>F028F1tdwM0ppN2VMiieaMD0dKP3<br>E02acD06PV5mf0AAAAAAAAAAAA<br>AAAAAAAAAAAAAAAAAAAAA |
|                                       | Upload Template Add New           | Upload Template Add New  |

### TRANSFERRING USER DATA

This process allows the administrator to transfer user data (user ID, fingerprints, cards, password, etc) among FingerTec terminals. This is to ease the process of enrollment so that the user does not have to repeatedly enroll at all the FingerTec terminals. Note

Transferring user data does not delete the user data from any terminals.

To transfer users: Select users from the table  $\Rightarrow$  Click *Transfer Data To Device*  $\Rightarrow$  Select terminal to transfer the users to  $\Rightarrow$  Click *OK* to proceed

| Export      | ι        | Upload User      | r Uploa        | ad Temj | plate Transfé | er Data To       |             |             |                         |
|-------------|----------|------------------|----------------|---------|---------------|------------------|-------------|-------------|-------------------------|
|             | V        | <u>Serial No</u> | <u>User ID</u> |         | Card Number   | <u>Privilege</u> | User group  |             | Created Time            |
| Edit Delete | V        | 8204092          | 3              |         | 0             | User             | 1           | 1           | 2011-09-26 14:42:31     |
| Edit Delete | <b>V</b> | 8204092          | 2              |         | 0             | User             | 1           | 1           | 2011-09-26 14:42:31     |
| Edit Delete | V        | 8204092          | 1              |         | 0             | User             | 1           |             | 2011-09-26 14:42:31     |
|             |          |                  |                |         |               |                  |             | Please sele |                         |
| 📝 🗙         | Ĵ        |                  |                |         | 1-            | 3 (Total R       | ecord(s): 3 |             | alaysia HQ) - Online    |
|             |          |                  |                | _       |               |                  |             | 8204092 (In | donesia Branch) - Onlin |

### **EXPORTING USERS**

The administrator may export user information into a check list format for reference and record purposes. There are three formats that the data can be exported into which are csv, txt or xls format.



# Searching for Users User ID : Name : Serial No : Second

The administrator is able to search for user information on the Webster database. The users can be searched either by the User ID, Name or Serial Number of terminals that the user in enrolled into. Just insert either information into the data fiels and the results will be displayed in a table at the bottom of the page.

# Editing and Deleting Users

The administrator has the authorization to edit and delete users in the Webster server and FingerTec terminals. Any editing or deleting operation takes immediate effect in the terminals. You may choose to edit or delete a single user, or multiple users at a time.

To edit a single user: Click *Edit* next to the user ID column in Insert Name and Card ID (optional) Select Privilege Define User Group Click *Update* to proceed Webster automatically updates the changes to the terminal.

|               | <u>Serial No</u> | <u>User ID</u> | <u>Name</u> | Card Number | <u>Privilege</u> | <u>User group</u> | Template Count  | Created Time        |
|---------------|------------------|----------------|-------------|-------------|------------------|-------------------|-----------------|---------------------|
| Update Cancel | 8204092          | 3              |             | 0           | 0 - User 💌       | 1                 | 1               | 2011-09-26 14:42:31 |
| Edit Delete   | 8204092          | 2              |             | 0           | User             | 1                 | 1               | 2011-09-26 14:42:31 |
| Edit Delete   | 8204092          | 1              |             | 0           | User             | 1                 | 1               | 2011-09-26 14:42:31 |
|               |                  |                |             |             | 1-3 (Total R     | ecord(s): 3)      | ) Current page: |                     |

To edit multiple users: Select users 
→ Click *Batch Edit* at the bottom → A new window will pop up → Insert name and Card ID (optional) → Select Privilege → Define User Group → Click *Update* to proceed → Webster automatically updates the changes to the terminal.

|             |   | <u>Serial No</u> | <u>User ID</u> | <u>Name</u> | Card Number | <u>Privileqe</u> | User group   | Template Count | Created Time        |
|-------------|---|------------------|----------------|-------------|-------------|------------------|--------------|----------------|---------------------|
| Edit Delete |   | 8204092          | 3              | John        | 0           | Admin            | 1            | 1              | 2011-09-26 14:42:31 |
| Edit Delete | V | 8204092          | 2              |             | 0           | User             | 1            | 1              | 2011-09-26 14:42:31 |
| Edit Delete | 1 | 8204092          | 1              |             | 0           | User             | 1            | 1              | 2011-09-26 14:42:31 |
| ₽∕ ⊠        | Ţ |                  |                |             | 1-3         | 3 (Total R       | ecord(s): 3] | Current page:  |                     |

To delete one user: Click *Delete* next to the user ID Click *OK* to confirm to delete Webster automatically updates the changes to the terminal to delete the user.

To delete multiple users: Select users 
→ Click
Batch Delete at the bottom of the page → Click
OK to confirm to delete → Webster automatically
updates the changes to the terminal to delete the
users.

| Serial No    | 8204092             |
|--------------|---------------------|
| User ID      | 2                   |
| Name         | Mary                |
| Card Number  | 0                   |
| Privilege    | 0 - User 👤          |
| User group   | 1                   |
| Created Time | 2011-09-26 14:42:31 |
|              |                     |
| Serial No    | 8204092             |
| User ID      | 1                   |
| Name         | Terry               |
| Card Number  | 0                   |
| Privilege    | 0 - User 👤          |
| User group   | 1                   |
|              | 2011-09-26 14:42:31 |

# 5 • Managing Transactions Logs in Webster

Every time a user verifies to report their attendance at a terminal, the transaction logs (attendance records) get uploaded to Webster immediately. This makes the Webster a realtime attendance recording server. In the event of a connection failure, the terminals then save the transaction logs into its buffer memory, to be uploaded to Webster the moment the connection to Webster resumes.

| Bridging FingerTec to the we   | b applications                     |         |                 |             |           |                      |          |      | enster web-  | here            | webster webster<br>Ibster webster we |                   |
|--|------------------------------------|---------|-----------------|-------------|-----------|----------------------|----------|------|--------------|-----------------|--------------------------------------|-------------------|
| Welcome, admin   |                                    |         |                 |             |           |                      |          | Home | Account Infe | b   Change Pass | word   Logout                        | Select Language 💌 |
| 🗉 Data Management  |                                    | Tran    | saction         |             | ſ         |                      |          |      |              |                 |                                      |                   |
| Terminal List<br>Transaction<br>User<br>Webster Command<br>Terminal System Log | Serial No:<br>Date From:<br>Export | 2011-0  | 9-01            | D           | ate To: 2 | 011-09-30            | Sea      | irch | 0            |                 |                                      |                   |
| System Configuration<br>User Management<br>Database Management                 | Serial No 1                        | Jser ID | 2<br>Check Type | Verify Code | Workcod   | le <u>Check Time</u> |          |      |              |                 |                                      |                   |
| System Configuration   | 7116765                            | 1       | 2               | 0           | 0         | 2011-09-26 16:24:10  | 0        |      |              |                 |                                      |                   |
| Monitoring   | 7116765                            | 1       | 2               | 0           | 0         | 2011-09-26 16:14:03  | 3        |      |              |                 |                                      |                   |
| Real Time Transaction  | 8204092                            | 3       | 1               | 0           | 0         | 2011-09-26 12:18:23  | 7        |      |              |                 |                                      |                   |
| Real Time User<br>Real Time Webster Command                                    | 8204092                            | 2       | 1               | 0           | 0         | 2011-09-26 12:18:22  | 2        |      |              |                 |                                      |                   |
| Real Time Webster Command<br>Real Time Terminal System Log                     | 8204092                            | 1       | 1               | 0           | 0         | 2011-09-26 12:18:16  | <b>b</b> |      |              |                 |                                      |                   |
|  | 8204092                            | 3       | 1               | 0           | 0         | 2011-09-26 12:10:31  | B        |      |              |                 |                                      |                   |
|  | 8204092                            | 2       | 1               | 0           | 0         | 2011-09-26 12:10:23  |          |      |              |                 |                                      |                   |
|  | 8204092                            | 1       | 1               | 0           | 0         | 2011-09-26 12:10:23  | 3        |      |              |                 |                                      |                   |
|  | 8204092                            | 3       | 1               | 0           | 0         | 2011-09-26 11:46:44  | 4        |      |              |                 |                                      |                   |
|  | 8204092                            | 2       | 1               | 0           | 0         | 2011-09-26 11:46:41  |          |      |              |                 |                                      |                   |

The sorting data field
 Export button
 The table displaying transaction details

# Sorting Transaction Logs

The administrator can choose to view the transaction logs by serial number of the terminals or by date range.

To sort by serial number: Insert serial number of terminal into the Serial Number column ➡ Click Search ➡ Transaction logs will be displayed in a table.

|   | Tra            | nsaction     |               |            |                     |  |  |  |  |  |  |
|---|----------------|--------------|---------------|------------|---------------------|--|--|--|--|--|--|
| Serial No:         7116765           Date From:         2011-09-01           Date To:         2011-09-30           Export |                |              |               |            |                     |  |  |  |  |  |  |
| Serial No   | <u>User ID</u> | Check Type   | Verify Code   | Workcode   | Check Time          |  |  |  |  |  |  |
| 7116765   | 1              | 2            | 0             | 0          | 2011-09-26 16:24:10 |  |  |  |  |  |  |
| 7116765   | 1              | 2            | 0             | 0          | 2011-09-26 16:14:03 |  |  |  |  |  |  |
| 7116765   | 1              | 2            | 0             | 0          | 2011-09-26 16:13:55 |  |  |  |  |  |  |
| 7116765   | 1              | 2            | 0             | 0          | 2011-09-26 16:02:28 |  |  |  |  |  |  |
| 7116765   | 1              | 2            | 1             | 0          | 2011-09-26 16:25:53 |  |  |  |  |  |  |
| 7116765   | 1              | 2            | 1             | 0          | 2011-09-26 16:26:31 |  |  |  |  |  |  |
|   | 1-6            | (Total Recor | d(s): 6) Curi | rent page: |                     |  |  |  |  |  |  |

To sort by Date Range: Insert the start and end date Click *Search* Transaction logs will be displayed in a table.

|           | Tra            | nsaction     |               |                 |                     |  |  |  |  |  |  |
|-----------|----------------|--------------|---------------|-----------------|---------------------|--|--|--|--|--|--|
|           |                |              |               |                 |                     |  |  |  |  |  |  |
| Serial No | <u>User ID</u> | Check Type   | Verify Code   | <u>Workcode</u> | <u>Check Time</u>   |  |  |  |  |  |  |
| 7116765   | 1              | 2            | 0             | 0               | 2011-09-26 16:24:10 |  |  |  |  |  |  |
| 7116765   | 1              | 2            | 0             | 0               | 2011-09-26 16:14:03 |  |  |  |  |  |  |
| 8204092   | 3              | 1            | 0             | 0               | 2011-09-26 12:18:27 |  |  |  |  |  |  |
| 8204092   | 2              | 1            | 0             | 0               | 2011-09-26 12:18:22 |  |  |  |  |  |  |
| 8204092   | 1              | 1            | 0             | 0               | 2011-09-26 12:18:16 |  |  |  |  |  |  |
| 8204092   | 3              | 1            | 0             | 0               | 2011-09-26 12:10:31 |  |  |  |  |  |  |
| 8204092   | 2              | 1            | 0             | 0               | 2011-09-26 12:10:27 |  |  |  |  |  |  |
| 8204092   | 1              | 1            | 0             | 0               | 2011-09-26 12:10:23 |  |  |  |  |  |  |
| 8204092   | 3              | 1            | 0             | 0               | 2011-09-26 11:46:44 |  |  |  |  |  |  |
| 8204092   | 2              | 1            | 0             | 0               | 2011-09-26 11:46:41 |  |  |  |  |  |  |
|           | 1-10 (         | Total Record | l(s): 20) Cun | rent page:      |                     |  |  |  |  |  |  |

### **Exporting Transaction Logs**

Transaction logs can be exported into CSV, TXT or XLS formats. The exported file can be used as data to be imported into a 3rd party software for further processing.

To export transaction: Click *Export* Define serial number of the terminal Define start and end date Select format of export file Click *Export* to proceed.

| Transaction  |                     |
|--|---------------------|
| Serial No:<br>Date From: 2011-09-15<br>File: csv v | Date To: 2011-09-30 |
| Exp csv ancel xls                                  |                     |

# Reading the Transaction Logs

Transaction logs in Webster can be retrieved and viewed by the administrator anytime. Each code/number represents an important piece of data:

|  | _ | Check Type | Verify Code | <u>Workcode</u> | Check Time          |  |  |  |  |  |
|--|---|------------|-------------|-----------------|---------------------|--|--|--|--|--|
| 7116765  | 1 | 2          | 0           | 0               | 2011-09-26 16:24:10 |  |  |  |  |  |
| 7116765  | 1 | 2          | 0           | 0               | 2011-09-26 16:14:03 |  |  |  |  |  |
| 8204092  | 3 | 1          | 0           | 0               | 2011-09-26 12:18:27 |  |  |  |  |  |
| 8204092  | 2 | 1          | 0           | 0               | 2011-09-26 12:18:22 |  |  |  |  |  |
| 8204092  | 1 | 1          | 0           | 0               | 2011-09-26 12:18:10 |  |  |  |  |  |
| 8204092  | 3 | 1          | 0           | 0               | 2011-09-26 12:10:3  |  |  |  |  |  |
| 8204092  | 2 | 1          | 0           | 0               | 2011-09-26 12:10:2  |  |  |  |  |  |
| 8204092  | 1 | 1          | 0           | 0               | 2011-09-26 12:10:23 |  |  |  |  |  |
| 8204092  | 3 | 1          | 0           | 0               | 2011-09-26 11:46:44 |  |  |  |  |  |
| 8204092  | 2 | 1          | 0           | 0               | 2011-09-26 11:46:4  |  |  |  |  |  |
| 1-10 (Total Record(s): 20) Current page: 1 💌 🖌 🖌 |   |            |             |                 |                     |  |  |  |  |  |

Serial no: The serial number of the terminal, which uploaded the transaction log User ID: User ID of the verified user Verify Code: The type of verification used (0 - card/password, 1 – fingerprint) Check Type: Status defined at the time of verification (indicated by the user during verification, 0 – Check In, 1 – Check Out, 2 – Break, 3 – Resume, 4 – OT in and 5 – OT Out) Work Code: The number inserted by users during verification to indicate the reason of attendance reporting. For more details see the explanation in the Hardware user manual for FingerTec models

Check Time: Date and time of verification

# 6 • Checking the Webster Command and System Log

|  | b applications        |                    |         |           |             |                      |                      | to to the second s | and the second sec | chate<br>ebste<br>rer with<br>rebste<br>ref with |                   |
|--|-----------------------|--------------------|---------|-----------|-------------|----------------------|----------------------|--|--|--|-------------------|
| Welcome, admin   |                       |                    |         |           |             |                      | Home   Ac            | ccount Info   Ch   | ange Password  | Logout   | Select Language 💌 |
| 🖻 Data Management  | ) v                   | Vebster Com        | mano    | i j       |             |                      |                      |  |  |  |                   |
| Terminal List<br>Transaction<br>User<br>Webster Command<br>Terminal System Log | Serial No<br>Status : | Completed          |         | Search    |             |                      |                      |  |  |  |                   |
| System Configuration   | Serial No             | Command            | User II | Status    | Return Code | Request Time         | Response Time        | Complete Time  |  |  |                   |
| User Management<br>Database Management   | 8204092               | Upload User        | 1       | Completed | 0           | 2011-09-26 17:27:01  | 2011-09-26 17:27:31  | 2011-09-26 17:27   | 31   |  |                   |
| System Configuration   | 8204092               | Upload User        | 2       | Completed | 0           | 2011-09-26 17:27:01  | 2011-09-26 17:27:31  | 2011-09-26 17:27   | 31   |  |                   |
| Monitoring   | 8204092               | Upload User        | 3       | Completed | 0           | 2011-09-26 17:23:37  | 2011-09-26 17:24:24  | 2011-09-26 17:24   | 24   |  |                   |
| Real Time Transaction  | 7116765               | Upload Fingerprint | 1       | Completed | 0           | 2011-09-26 17:17:05  | 2011-09-26 17:17:36  | 2011-09-26 17:17   | :37  |  |                   |
| Real Time User   | 7116765               | Upload User        | 1       | Completed | 0           | 2011-09-26 17:17:05  | 2011-09-26 17:17:36  | 2011-09-26 17:17   | :37  |  |                   |
| Real Time Webster Command<br>Real Time Terminal System Log                     | 7116765               | Upload Fingerprint | 2       | Completed | 0           | 2011-09-26 17:17:05  | 2011-09-26 17:17:36  | 2011-09-26 17:17   | :37  |  |                   |
| Kear nine reminar system Log   | 7116765               | Upload User        | 2       | Completed | 0           | 2011-09-26 17:17:05  | 2011-09-26 17:17:36  | 2011-09-26 17:17   | :37  |  |                   |
|  | 7116765               | Upload Fingerprint | 3       | Completed | 0           | 2011-09-26 17:17:05  | 2011-09-26 17:17:36  | 2011-09-26 17:17   | :37  |  |                   |
|  | 7116765               | Upload User        | 3       | Completed | 0           | 2011-09-26 17:17:05  | 2011-09-26 17:17:36  | 2011-09-26 17:17   | :37  |  |                   |
|  | 7116765               | Delete User        | 1       | Completed | 0           | 2011-09-26 17:00:00  | 2011-09-26 17:00:15  | 2011-09-26 17:00   | :17  |  |                   |
|  |                       |                    |         |           |             | 1-10 (Total Record(s | ): 43) Current page: | 1.4.4.   | H  |  |                   |
|  | 7116765               | Delete User        |         |           |             |                      | ): 43) Current page: |  |  |  |                   |

The connection between Webster and the terminals can be affected by many factors, such as a congested or slow network, the shutting down of terminals, etc. These reasons cause the data transfer between Webster and the terminals to be delayed. As discussed earlier, in such situations, the terminals will save the data and transaction logs into the buffer memory and resumes the upload when a connection is established again. The same process is done by Webster.

When the administrator is trying to send a command to the terminals when the connection is down, Webster will store the command into its own buffer memory and will resend the data when the connection resumes. It is advisable to check the page Webster Command to see the status of command, which will be one of the following:

| Completed: Webster has completed the data up-<br>load or commands to the terminals. | Pending: Webster is waiting to upload data or send commands to the terminals. | ) |
|---|---|---|
|   |   |   |

The Webster Command page also displays other important information, such as:

| Serial no: Showing which terminal Webster will be<br>connecting to                             | Request time: The date and time that Webster started to send the data or command   |
|--|--|
| Command: Displays he name of the command or<br>data transfer between Webster and the terminals | Response time: The date and time that the terminal responded to Webster  |
| Status: Show the status of the commands: Complet-<br>ed or Pending                             | Complete time: The date and time that the data<br>transfer or command is completed (only appears if<br>Status = Completed) |

These logs are important for the administrator to be informed of the communication status between Webster and the FingerTec terminals. The administrator can filter the logs according to the serial number of terminals, or types of status.

# Webster Command

The records in Webster Command are all historical records and not real-time logs. It is recommended that the administrator view the Real Time Webster Command page (under Monitoring) to view all real-time commands/data transfer between the terminals and Webster.

| R      | Real Time Webster Command |                     |         |           |             |                     |                     |                     |  |  |  |  |  |
|--------|---------------------------|---------------------|---------|-----------|-------------|---------------------|---------------------|---------------------|--|--|--|--|--|
| Serial | No: All                   | ,                   | 1       |           |             |                     |                     |                     |  |  |  |  |  |
| Senai  |                           |                     |         |           |             |                     |                     |                     |  |  |  |  |  |
| 81-    | Serial No                 | C d                 | 11 10   | Chabura   | Datum Cada  | De averat Time      | D                   | Complete Trees      |  |  |  |  |  |
| No.    |                           | Command             | User ID | Status    | Return Code | Request Time        | Response Time       | Complete Time       |  |  |  |  |  |
| 1      | 8204092                   | Upload User         | 1       | Completed | 0           | 2011-09-26 17:27:01 | 2011-09-26 17:27:31 | 2011-09-26 17:27:31 |  |  |  |  |  |
| 2      | 8204092                   | Upload User         | 2       | Completed | 0           | 2011-09-26 17:27:01 | 2011-09-26 17:27:31 | 2011-09-26 17:27:31 |  |  |  |  |  |
| 3      | 8204092                   | Upload User         | 3       | Completed | 0           | 2011-09-26 17:23:37 | 2011-09-26 17:24:24 | 2011-09-26 17:24:24 |  |  |  |  |  |
| 4      | 7116765                   | Upload Fingerprint  | 1       | Completed | 0           | 2011-09-26 17:17:05 | 2011-09-26 17:17:36 | 2011-09-26 17:17:37 |  |  |  |  |  |
| 5      | 7116765                   | Upload User         | 1       | Completed | 0           | 2011-09-26 17:17:05 | 2011-09-26 17:17:36 | 2011-09-26 17:17:37 |  |  |  |  |  |
| 6      | 7116765                   | Upload Fingerprint  | 2       | Completed | 0           | 2011-09-26 17:17:05 | 2011-09-26 17:17:36 | 2011-09-26 17:17:37 |  |  |  |  |  |
| 7      | 7116765                   | Upload User         | 2       | Completed | 0           | 2011-09-26 17:17:05 | 2011-09-26 17:17:36 | 2011-09-26 17:17:37 |  |  |  |  |  |
| 8      | 7116765                   | Upload Fingerprint  | 3       | Completed | 0           | 2011-09-26 17:17:05 | 2011-09-26 17:17:36 | 2011-09-26 17:17:37 |  |  |  |  |  |
| 9      | 7116765                   | Upload User         | 3       | Completed | 0           | 2011-09-26 17:17:05 | 2011-09-26 17:17:36 | 2011-09-26 17:17:37 |  |  |  |  |  |
| 10     | 7116765                   | Delete User         | 1       | Completed | 0           | 2011-09-26 17:00:00 | 2011-09-26 17:00:15 | 2011-09-26 17:00:17 |  |  |  |  |  |
| 11     | 8204092                   | Upload Fingerprint  | 3       | Completed | 0           | 2011-09-26 16:27:32 | 2011-09-26 16:27:34 | 2011-09-26 16:27:34 |  |  |  |  |  |
| 12     | 7116765                   | Upload Fingerprint  | 1       | Completed | 0           | 2011-09-26 16:26:22 | 2011-09-26 16:26:22 | 2011-09-26 16:26:23 |  |  |  |  |  |
| 13     | 7116765                   | Upload Fingerprint  | 1       | Completed | 0           | 2011-09-26 16:24:56 | 2011-09-26 16:25:08 | 2011-09-26 16:25:09 |  |  |  |  |  |
| 14     | 7116765                   | Download User/Data  |         | Completed | 0           | 2011-09-26 16:24:18 | 2011-09-26 16:24:25 | 2011-09-26 16:24:25 |  |  |  |  |  |
| 15     | 7116765                   | Download User/Data  |         | Completed | 0           | 2011-09-26 16:15:10 | 2011-09-26 16:16:59 | 2011-09-26 16:17:00 |  |  |  |  |  |
| 16     | 7116765                   | Download User/Data  |         | Completed | 0           | 2011-09-26 16:08:17 | 2011-09-26 16:08:26 | 2011-09-26 16:08:27 |  |  |  |  |  |
| 17     | 7116765                   | Upload User         | 1       | Completed | 0           | 2011-09-26 16:08:04 | 2011-09-26 16:08:26 | 2011-09-26 16:08:27 |  |  |  |  |  |
| 18     | 7116765                   | Upload User         | 1       | Completed | 0           | 2011-09-26 16:02:02 | 2011-09-26 16:02:12 | 2011-09-26 16:02:13 |  |  |  |  |  |
| 19     | 7116765                   | Download User/Data  |         | Completed | 0           | 2011-09-26 16:01:22 | 2011-09-26 16:01:30 | 2011-09-26 16:01:30 |  |  |  |  |  |
| 20     | 7116765                   | Erase All User Info |         | Completed | 0           | 2011-09-26 16:00:42 | 2011-09-26 16:00:51 | 2011-09-26 16:00:51 |  |  |  |  |  |

# System Log

System log refers to administrative records stored in each terminal. It records any operation done by the administrator, for example, registration of a new user by fingerprint. The administrator will not be able to see these records at the terminal itself. However the terminal saves these records into its buffer memory, and uploads them to Webster when a connection is established.

These records can be viewed and read by clicking on Terminal System Log.

|   | b application         | 15        |                          |             |           | -         |           |           | 3.                   |                     | dosta websta<br>websta websta<br>osta websta<br>websta websta |                 |
|---|-----------------------|-----------|--------------------------|-------------|-----------|-----------|-----------|-----------|----------------------|---------------------|---|-----------------|
| Welcome, admin  |                       |           |                          |             |           |           |           |           | Home   Accou         | int Info   Change P | assword   Logout  | Select Language |
| B Data Management<br>Terminal List<br>Transaction<br>User<br>Webster Command<br>Terminal System Log                             | Serial No<br>Log Date | :         | System Log<br>2011-09-01 | ]<br>] 📰 La | og Date T | o : 2011- | -09-30    |           | Search               |                     |   |                 |
| System Configuration  |                       | Serial No |                          |             |           |           |           |           |                      |                     |   |                 |
| User Management   | Delete                | 7116765   | Fingerprint Registration | 0           | 5         | 0         | 0         | 333       | 2011-09-27 11:50:01  | 2011-09-27 11:51:07 |   |                 |
| Database Management<br>System Configuration   | Delete                | 7116765   | Register User            | 0           | 5         | 0         | 0         | 0         | 2011-09-27 11:50:00  | 2011-09-27 11:51:07 |   |                 |
| arystein conliguration<br>Real Time Transaction<br>Real Time User<br>Real Time Webster Command<br>Real Time Terminal System Log |                       |           |                          |             |           |           | 1-2 (Tota | il Record | (s): 2) Current page |                     |   |                 |

The Terminal System Log page is displayed in a table format. Each column displays the following:

| Serial number: The serial number of the terminal that sent the system log to Webster | Log time: The date and time that the operation oc-<br>curred            |
|--|---|
| Description: The operation done at the terminal                                      | Created time: The date and time that the record was uploaded to Webster |

If the administrator would like to monitor the real-time operations occurring at the terminal, go to the Real Time Terminal System Log page under Monitoring for details. Whenever an operation occurs at the terminal, the administrator will be informed immediately.

|      | Real Time Terminal System Log |                          |       |         |         |         |         |                     |                     |  |  |  |
|------|-------------------------------|--------------------------|-------|---------|---------|---------|---------|---------------------|---------------------|--|--|--|
| Seri | Serial No: All                |                          |       |         |         |         |         |                     |                     |  |  |  |
| _    |                               |                          |       |         |         |         |         |                     |                     |  |  |  |
| No   | . Serial No                   | Description              | Admin | Param 1 | Param 2 | Param 3 | Param 4 | Log Time            | Created Time        |  |  |  |
| 1    | 7116765                       | Fingerprint Registration | 0     | 5       | 0       | 0       | 333     | 2011-09-27 11:50:01 | 2011-09-27 11:51:07 |  |  |  |
| 2    | 7116765                       | Register User            | 0     | 5       | 0       | 0       | 0       | 2011-09-27 11:50:00 | 2011-09-27 11:51:07 |  |  |  |

# 7 • Monitoring Real-Time Transactions & Users

# Monitoring Real-Time Transactions

| Real Time Transaction |           |         |            |             |          |                     |  |  |  |
|-----------------------|-----------|---------|------------|-------------|----------|---------------------|--|--|--|
| Serial No: All        |           |         |            |             |          |                     |  |  |  |
| No.                   | Serial No | User ID | Check Type | Verify Code | Workcode | Check Time          |  |  |  |
| 1                     | 8204092   | 3       | 1          | 0           | 0        | 2011-09-26 16:28:12 |  |  |  |
| 2                     | 8204092   | 2       | 1          | 0           | 0        | 2011-09-26 16:28:06 |  |  |  |
| 3                     | 8204092   | 3       | 1          | 0           | 0        | 2011-09-26 16:28:01 |  |  |  |
| 4                     | 8204092   | 3       | 1          | 0           | 0        | 2011-09-26 16:27:41 |  |  |  |
| 5                     | 8204092   | 2       | 1          | 0           | 0        | 2011-09-26 16:26:36 |  |  |  |
| 6                     | 7116765   | 1       | 2          | 1           | 0        | 2011-09-26 16:26:31 |  |  |  |
| 7                     | 7116765   | 1       | 2          | 1           | 0        | 2011-09-26 16:25:53 |  |  |  |
| 8                     | 7116765   | 1       | 2          | 0           | 0        | 2011-09-26 16:24:10 |  |  |  |
| 9                     | 7116765   | 1       | 2          | 0           | 0        | 2011-09-26 16:14:03 |  |  |  |
| 10                    | 7116765   | 1       | 2          | 0           | 0        | 2011-09-26 16:13:55 |  |  |  |
| 11                    | 7116765   | 1       | 2          | 0           | 0        | 2011-09-26 16:02:28 |  |  |  |
| 12                    | 8204092   | 3       | 1          | 0           | 0        | 2011-09-26 12:18:27 |  |  |  |
| 13                    | 8204092   | 2       | 1          | 0           | 0        | 2011-09-26 12:18:22 |  |  |  |
| 14                    | 8204092   | 1       | 1          | 0           | 0        | 2011-09-26 12:18:16 |  |  |  |
| 15                    | 8204092   | 3       | 1          | 0           | 0        | 2011-09-26 12:10:31 |  |  |  |
| 16                    | 8204092   | 2       | 1          | 0           | 0        | 2011-09-26 12:10:27 |  |  |  |
| 17                    | 8204092   | 1       | 1          | 0           | 0        | 2011-09-26 12:10:23 |  |  |  |
| 18                    | 8204092   | 3       | 1          | 0           | 0        | 2011-09-26 11:46:44 |  |  |  |
| 19                    | 8204092   | 2       | 1          | 0           | 0        | 2011-09-26 11:46:41 |  |  |  |
| 20                    | 8204092   | 1       | 1          | 0           | 0        | 2011-09-26 11:46:18 |  |  |  |

Real Time Transaction is a page that displays real-time verifications that occur at the terminals. Webster receives and publishes all transactions received from connected terminals to inform the administrator about activity at the terminals.

The transactions are displayed in a table format which contains the following columns:

| Serial no: The serial number of the terminal which  | Verify Code: The type of verification used (0 – card/ |
|---|---|
| uploaded the transaction log.                       | password, 1 – fingerprint)                            |
| User ID: The user ID of the verified user.          | WorkCode: The number inserted by users during         |
| Check Type: Status defined at the time of verifica- | verification to indicate the reason of attendance re- |
| tion (indicated by the user during verification, 0  | porting. For more details see the explanation in the  |
| – Check In, 1 – Check Out, 2 – Break, 3 – Resume, 4 | Hardware user manual for FingerTec models             |
| – OT in and 5 – OT Out)                             | Check Time: Date and time of verification             |

# Monitoring Real-Time User Enrollment

|                | Real 1               | Time Use     | er           |                  |                |                      |                                     |  |
|----------------|----------------------|--------------|--------------|------------------|----------------|----------------------|-------------------------------------|--|
| Serial No: All |                      |              |              |                  |                |                      |                                     |  |
|                |                      |              |              |                  |                |                      |                                     |  |
| No.            | Serial No            | User ID      | Name         | Card Number      | Privilege      | User group           | Created Time                        |  |
| No.            | Serial No<br>8204092 | User ID<br>3 | Name<br>John | Card Number<br>0 | Privilege<br>2 | User group<br>1      | Created Time<br>2011-09-26 14:42:31 |  |
| No.<br>1<br>2  |                      |              |              |                  |                | User group<br>1<br>1 |                                     |  |

Besides real-time transactions, Webster also displays real-time user enrollment records from all terminals. The administrator can view and be informed of new users, which terminal he/she is enrolled in, together with the date and time of enrollment.

| Serial no: The serial number of the terminal in which the new user has been enrolled in | Privilege: The privilege of the user (0 – normal user, 1<br>– Enroller , 2 – Administrator, 3 – Supervisor) |
|---|---|
| User ID: The assigned new user ID   | User Group: TBA   |
| Name: The name of the new user  | Created time: Date and time of verification   |
| Card Number: The card ID enrolled.  |   |
|   | )   |

# 8 • Managing, Administrating, and Maintaining Webster

### Managing Administrator

Webster only allows administrators access to manage terminals, users and transactions. Super administrators, on the other hand, are able to set and assign new supervisors, and control the authority level of supervisors. The super administrator is assigned to the first person that logs into Webster. To maintain a level of security with Webster, it is recommended that each administrator and supervisor be assigned with different levels of access which can be controlled and monitored by a username and password.

Click User Management to view the details of administrators.

|  | applications                   |        |                                       |          |         |                | ÷               |                            | 1000 100<br>100 100<br>100 100<br>100 100<br>100 100 | *                                  | to to oc i<br>o no i<br>i no o<br>i no o<br>vebster |                          | •                   | webster<br>webster<br>soster wahrte<br>mwebster<br>oster webster |                                     |
|--|--------------------------------|--------|---------------------------------------|----------|---------|----------------|-----------------|----------------------------|--|------------------------------------|---|--------------------------|---------------------|--|-------------------------------------|
| Welcome, admin   |                                |        |                                       |          |         |                |                 |                            |  | Home /                             | Account   | Info   Change            | Password            | Logout   | Select Language 💌                   |
| <ul> <li>Data Management<br/>Terminal List<br/>Transaction<br/>User<br/>Webster Command<br/>Terminal System Log</li> </ul>                   | User ID :<br>Name :            | Jser I | Manag                                 | jemer    | nt      |                |                 |                            |  |                                    |   |                          |                     |  |                                     |
| System Configuration<br>User Management<br>Database Management<br>System Configuration   | Email :<br>Membersh<br>Add New |        | us : Ac                               |          |         | • 5            | earch           |                            |  |                                    |   |                          |                     |  |                                     |
| Monitoring Real Time Transaction Real Time User  |                                | I N    | <u>ser</u> <u>Use</u><br>D <u>Nam</u> | r Name   | Address | Phone<br>No.   | Email           | Date<br>Joined             |  | <u>Membership</u><br><u>Status</u> | Remark  | User<br>View Edit Delete | Transaction<br>View | Terminal List<br>View[Edit]Delet                                 | Terminal<br>System Lo<br>View Delet |
| Real Time Webster Command<br>Real Time Terminal System Log   | Edit Delete                    |        | 1 adm                                 | in admir | admin   |                | admin@admin.com | 2011-09-<br>06<br>00:41:53 | 27   | Active                             |   | 1 1 1                    | 1                   | 1 1 1  | 1 1                                 |
|  | Edit Delete                    |        | 2 use                                 | r user   | user    | user           | user@user.com   | 2011-09-<br>06<br>00:42:51 | 26   | Active                             |   | 100                      | 1                   | 100  | 1 0                                 |
| B <sup>™</sup> O1 2: (Total Record(s): 2) Current page: I w   K ◀ ▶ ▶ <br>Copyright © 2011 ProgerTex Worldelde Limited. All rights reserved. |                                |        |                                       |          |         | с <b>ч</b> р М |                 |                            |  |                                    |   |                          |                     |  |                                     |
|  |                                |        |                                       |          |         |                |                 |                            |  |                                    |   |                          |                     |  |                                     |

The administrators can be viewed and sorted by User ID, name, and email. The Membership Status displays the status of each individual administrator, whether they are active (access allowed) or inactive (access denied). The table below displays the levels of authority of all the different administrators. Each function can be allowed or denied to each administrator.

| User<br>View Edit Delete | Transaction<br>View | Terminal List<br>View Edit Delete | System Log<br>View Delete | User<br>Management<br>View Edit Delete |
|--------------------------|---------------------|-----------------------------------|---------------------------|--|
| 111                      | 1                   | 111                               | 11                        | 111                                    |
| 100                      | 1                   | 100                               | 10                        | 100                                    |
| 101                      | 1                   | 100                               | 10                        | 101                                    |

User: Authority to view/edit/delete users in Webster and FingerTec terminals Transaction View: Authority to view transaction logs of the users Terminal List: Authority to view/edit/delete terminals in Terminal List

If allowed, the figure "1" will be displayed under that function, and if denied, the figure "0" will be displayed under that function.



In the example above, the administrator has the authority to view/edit/delete users in the User page.

### ADDING A NEW ADMINISTRATOR

To add new administrator: Click the *Add New User* button **→** Fill in the relevant information into the table.

| User<br>Management Crea | ate User   |                    |       |
|-------------------------|--|--------------------|-------|
| User Name :             | јоусе  | Name :             | Јоусе |
| Email :                 | joyce@fingertec.com                                      | Phone No. :        |       |
| Password :              | ••••   | Confirm Password : | ••••  |
| Address :               | 6, Jalan BK 3/2,<br>47100 Puchong,<br>Selangor, Malaysia | Remark :           |       |
| Membership Status       | Active   |                    |       |

Define the authority level in each data field > Check the checkbox to enable > Click Create User to complete the process.

| Modules             |          |        |          |  |  |  |  |
|---------------------|----------|--------|----------|--|--|--|--|
| Modules             | 🗹 View   | 🔲 Edit | 🔲 Delete |  |  |  |  |
| User                | <b>V</b> |        | <b>V</b> |  |  |  |  |
| Transaction         |          |        |          |  |  |  |  |
| Terminal List       |          |        |          |  |  |  |  |
| Terminal System Log | <b>V</b> |        |          |  |  |  |  |
| User Management     | <b>V</b> |        | <b>V</b> |  |  |  |  |
| Create User Add New |          |        |          |  |  |  |  |

A new administrator is now created and published on the main page.

To update the authority level of an administrator: Click the *Update Privilege* button Select the User ID of the administrator Redefine the authority level Click *Update* to save settings.

|                                 | Select update adr<br>User ID : 3 (joyc<br>Name : Joyce |                  | vilege |        |
|---------------------------------|--|------------------|--------|--------|
|                                 | Modules  | <b>⊽</b><br>View | Edit   | Delete |
|                                 | User   | <b>V</b>         |        | V      |
|                                 | Transaction  | <b>V</b>         |        |        |
| Select update admin's privilege | Terminal List  | $\checkmark$     |        |        |
| User ID :                       | Terminal System<br>Log                                 |                  |        |        |
|                                 | User Management  | <b>V</b>         |        | V      |
| Update Cancel                   | Upda   | ate Ca           | incel  |        |

To update the basic information of an administrator ONLY: Click *Edit* next to the relevant administrator 
Update the information 
Click *Update* to save settings.

|               |   |   | r <u>User</u><br>Name | Name  | Address                |      |                     | <u>Date</u><br>Joined      | <u>Date</u><br>Login       | <u>Membership</u><br><u>Status</u> | <u>Remark</u> |
|---------------|---|---|-----------------------|-------|------------------------|------|---------------------|----------------------------|----------------------------|------------------------------------|---------------|
| Edit Delete   |   | 1 | admin                 | admin | admin                  |      | admin@admin.com     | 2011-09-<br>06<br>00:41:53 | 27                         | Active                             |               |
| Edit Delete   |   | 2 | user                  | user  | user                   | user | user@user.com       | 2011-09-<br>06<br>00:42:51 | 26                         | Active                             |               |
| Update Cancel |   | 3 | joyce                 | Joyce | 6, Jalan BK 3/2, 47100 |      | joyce@fingertec.com | 27                         | 2011-09-<br>27<br>12:08:12 | Active 💌                           |               |
| < [           | H H H H H H H H H H H H H H H H H H H           |   |                       |       |                        |      |                     |                            |                            |                                    |               |
| ₽∕ ⊠↑         | 1-3 (Total Record(s): 3) Current page: 1▼ 🖌 🖌 🕨 |   |                       |       |                        |      |                     |                            |                            |                                    |               |

### Managing & Maintaining the Database

It is advisable to perform housekeeping from time to time to maintain the Webster MySQL database and secure the data. If the database size is too big, it is recommended to purge/ delete some old data before proceeding to backup database.

| Database Management  |                    |
|--|--------------------|
| Backup & Maintenance   | I Clear Database   |
| Table  | Table              |
| webster_checkinout   | webster_checkinout |
| webster_command  | webster_command    |
| webster_modules  | webster_oplog      |
| webster_opcommand  | Purge              |
| webster_oplog  |                    |
| webster_roles  |                    |
| webster_systemsettings                                       |                    |
| webster_terminal   |                    |
| webster_user   |                    |
| webster_userinfo   |                    |
| webster_usertemplate   |                    |
| webster_usertemplate_fp10                                    |                    |
| Backup Maintenance   |                    |
|  |                    |
| Restore  |                    |
| Choose File No file chosen                                   |                    |
| ( Maximum upload file size is approximately 4 MB )<br>Upload |                    |

Administrators have the authority to do the following:

Backup database: to backup database into SQL statement to store for future reference.

Restore database: to restore SQL statement from backup file.

Maintenance: to reclaim the unused space and to defragment the data file, to optimize the database.

Clear/Purge database: to clear/purge old/unused data file. Administrator can define the date range to clear/purge.

To backup database
 Select types of database 
 → Click Backup 
 → Select location to save the SQL statement.

- To do maintain database
   Select types of database Click Maintenance to proceed
- To clear database
   Select type of database ➡ Click Purge ➡ Define date range ➡ Click Purge to proceed
- To restore database
   Click Choose File Select the SQL statement Click Upload to proceed.

