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## Introduction to webserver

Fingertec Webserver is a basic web version of our TCMS V2 software. We highly recommend that you install the webserver into a PC that can double as a server. The designated PC will need to have a fixed IP address in order to transform into a workstation that links together the Fingertec terminals via GPRS or Internet. No IP address is required on any of the terminals as the terminals will search for any GPRS or Internet signal available to establish the connection.

Webserver installation is hassle-free as it contains only one single installation file, which are packed with all the necessary components for the software to work.

The information downloaded from the terminal will be stored in MySQL database. In order to retrieve information for time attendance calculation or reporting, you will need to link the TCMS V2 software to MySQL database. You can also fully utilize the information in the MySQL database by using your own software or application.

## 2. INSTALLATION/UNINSTALLATION OF COMPONENTS

### Uninstalling the internet information service (iis)

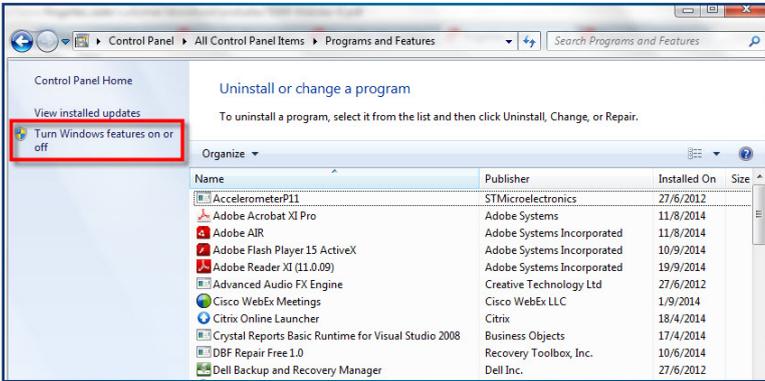
The Webserver Installer has its own built in Internet Installation Service (IIS). Thus, if you do not have any web-based program installed in the computer, it is recommended that you uninstall the IIS from your computer.

#### Note

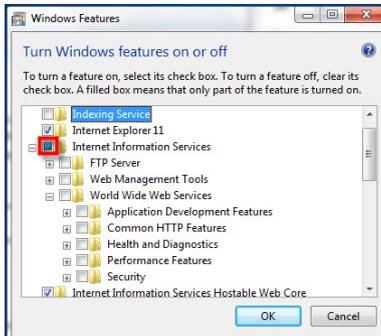
*If you have a web-based program running, you can leave the IIS ON but do ensure that the web-based program does not use the port 8080 which is recommended for the Webserver Port.*

**To uninstall the IIS, follow the steps below.**

Go to Control Panel > Programs and Features > Select Turn Windows features on or off

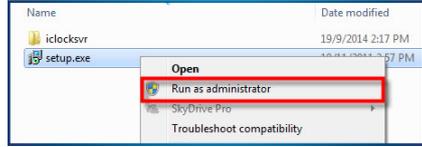


Ensure that all the IIS component is turned off (checked box is empty).



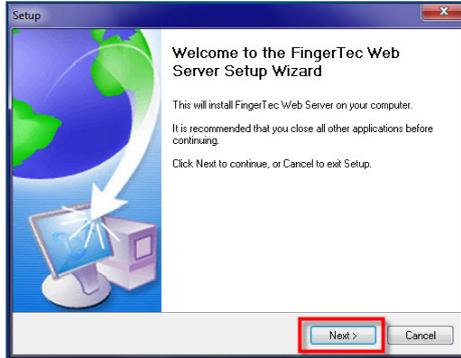
# Installing the webserver

Open the FingerTec Web Server folder. Right click on the Webserver setup file and select 'Run as Administrator'.

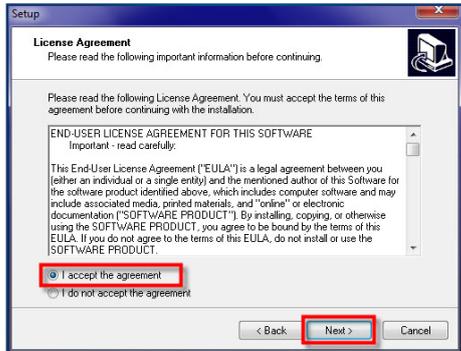


This will prompt the installer to start the Webserver installation.

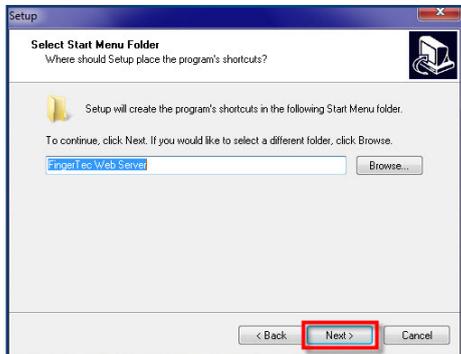
Click 'Next' to begin.

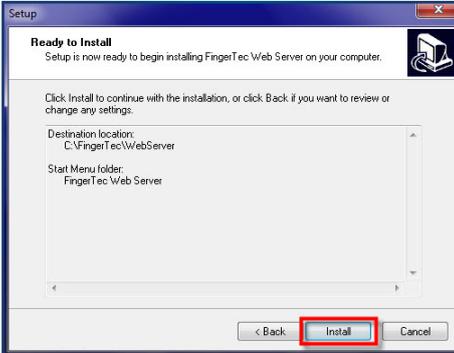


Read to understand the terms and conditions and select "I accept the agreement". Click 'Next' to proceed.

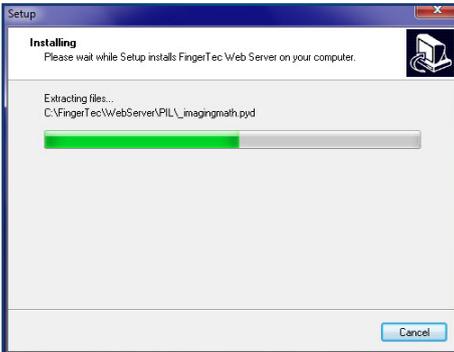


Setup will then create the shortcut in the Start Menu folder for easy access. Click 'Next' to proceed.

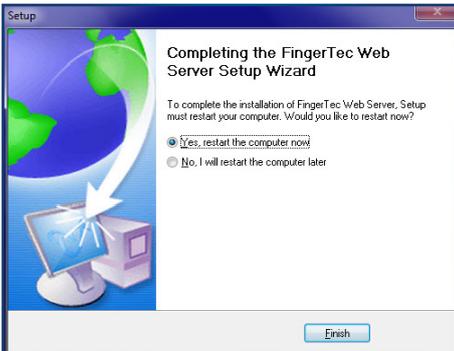




Click **Install** to initiate the installation process. Follow the on-screen instructions to complete the installation.



The installation will take a few minutes to complete.



Select 'Yes, restart the computer now' and click 'Finish' to end the process.



A new icon for FingerTec Web Server will be created on the desktop. **Double click** on the icon to start the FingerTec Web Server.

# Installation of GRPS tool into the terminal

You need to switch on the GPRS function first in the terminal before proceeding to use the Webserver in the PC.

## Run the FTFunctionTool.exe.

Connect to the FingerTec terminal via LAN cable. Next, insert the IP address of the terminal and click 'Connect' to start.

Name	Date modified	Type
FTSerialChanger.exe	26/3/2014 1:51 PM	Applica
FTSelect 485 use for R2C or RS485 connection.zip	4/6/2014 12:21 PM	WinRAR
FTSelect 485 use for R2C or RS485 connection.exe	28/8/2014 6:11 PM	Applica
FTMasterSlave.zip	18/9/2014 1:51 PM	WinRAR
FTHzDel AlarmWav.exe	6/6/2014 2:48 PM	Applica
FTGPRSUpdate.zip	3/7/2014 3:18 PM	WinRAR
FTFunctionTool.exe	30/6/2014 10:47 AM	Applica
FTFACE_800_Arabic.zip	31/7/2014 5:59 PM	WinRAR
FTDevInfoWFunc.exe	14/4/2014 2:48 PM	Applica
FTDevInfo.zip	7/6/2014 9:50 PM	WinRAR
FTDevInfo.exe	22/11/2012 5:37 PM	Applica
FTCardUpdate.On.exe	5/1/2011 5:15 PM	Applica
FT35_800_Original.zip	14/7/2014 6:16 PM	WinRAR
FT35_600_UpdateH(if scanner cant work).zip	20/8/2014 4:34 PM	WinRAR

If connection to the terminal is successful, the information will be displayed at the window below the tool. Check the information to make sure that you are connecting to the correct terminal. Click on the GPRS Setting Tab on the tool.

Tick the checkbox to 'Update GPRS Setting so you can key in the details.

Below are a number of settings that you need to fill in first before proceeding to the next step.

FingerTec Terminal Functions Update Tool v2.0

Terminal

Terminal IP : 192.168.1.51 | Port : 4370 | Comm Key : 0 | Connect

Functions

General | Access Control | W/i Setting | GPRS Setting

Printer ON |  SMS ON

Work Code ON |  Mifare As ID ON

USB Encryption ON |  DHCP ON

User ID Length 9 |  BioBridge Vx 9

Mifare FP No. 1 |  IP Address 192.168.1.201

Webster IP 192.168.1.201 |  Subnet Mask 255.255.255.0

Webster Port 80 |  Gateway 192.168.1.1

False Log ON |  Ext Alarm Delay 0

**APN:** Get the APN from your service provider.

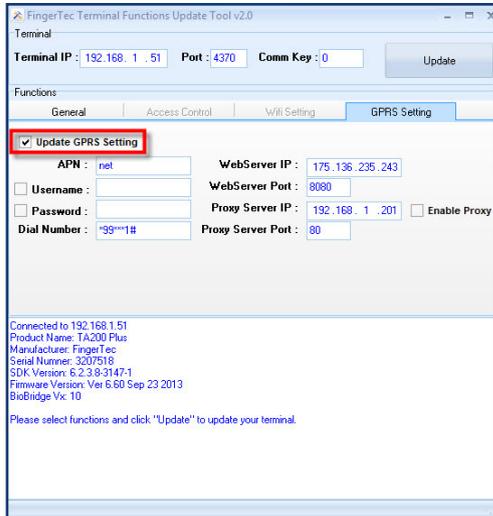
**Username:** Get the Username from your service provider.

**Password:** Get the Password from your service provider.

**Dial Number:** You must insert \*99\*\*# in the column Dial Number. This is a fixed value for Dial Number

**WebServer IP:** Depends on your server address.

**WebServer Port:** Recommended to set as 8080. You can use other ports as long as the port number does not clash with other applications.



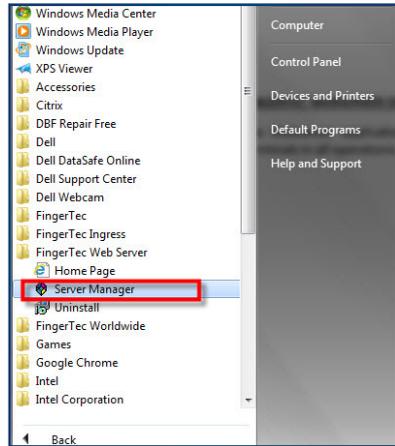
Click 'Update' and 'Restart' for the new settings to take effect.

# 3. WEBSERVER OPERATIONS

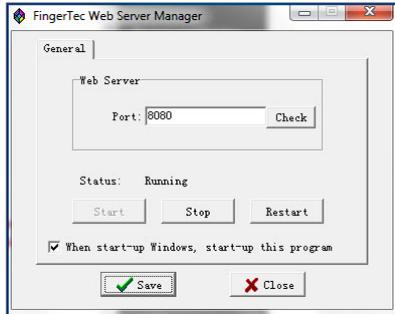
## Webserver settings

The Webserver application allows administrators to communicate and to control all Fingertec Terminals in all operations.

Go to **Start Menu > All Programs > Fingertec Webserver > Server Manager**



At the Server Manager window, enter '8080' in the 'Port' field and click 'Start'. Once the status has indicated that it is 'running', you can proceed to save the setting.



Double click the FingerTec Web Server icon on your desktop.

The Webserver Application allows administrator to communicate and control some of the terminals' operation.



The default username and password are both set to "admin". You can change the password after the first time login for tighter security.

FingerTec Web Server Welcome, admin / Change password / Log out v3.1-131-1764 --- Language ---

Device **Data** System

Device Maintenance Style:  Table style  List style

Device operation log Selected: 0  Operation for selected  total: 1

Transaction Monitor

<input type="checkbox"/>	Serial number	Device alias name	Status	Transfer time	Interval	Last activity	Fw version	Device name	User count	Fp count	Transaction count	Data	Department
<input type="checkbox"/>	3207518	192.168.1.51	Online	00:00:14:05	1	25/09 16:19	Ver 6.50 Sep 23 21	TA200 Plus	4	4	0	LEUCRF	1 FingerTec

Auto Refresh Interval: (s)30

**Tip**  
Operations, Usually only for the on-line device;  
After operation on the device, It's will take effect after about half minute.

The Webserver will always look for the nearest detectable terminal and connect to any FingerTec terminals available during start-up. The information retrieved from the terminals will be displayed on the Webserver homepage i.e. serial number, IP address, device name, total users and etc.

## Monitoring the terminal activities

At the Device Tab, select 'Transaction Monitor'. Administrator can monitor all the user's activities or the terminals immediately from this screen.

FingerTec Web Server Welcome, admin / Change password / Log out v3.1-131-1764 --- Language ---

Device **Data** System

Device Maintenance Style:  Table style  List style

Device operation log Selected: 0  Operation for selected  total: 1

Transaction Monitor

<input type="checkbox"/>	Serial number	Device alias name	Status	Transfer time	Interval	Last activity	Fw version	Device name	User count	Fp count	Transaction count	Data	Department
<input type="checkbox"/>	3207518	192.168.1.51	Online	00:00:14:05	1	25/09 16:19	Ver 6.50 Sep 23 21	TA200 Plus	4	4	0	LEUCRF	1 FingerTec

Auto Refresh Interval: (s)30

**Tip**  
Operations, Usually only for the on-line device;  
After operation on the device, It's will take effect after about half minute.

The activities include new user enrolment, verification of users, clocking status and etc. will be displayed here.

FingerTec Web Server Welcome, admin / Change password / Log out v3.1-131-1764 --- Language ---

Device **Data** System

17:39:09: no new records

Time	Device	Event	Param1	Param1 ID	Param1	Param2
25/09/14 18:28:03	3207518(192.168.1.51)	Parameter Check in	00000005	255		
25/09/14 18:38:54	3207518(192.168.1.51)	Password Check in	00000005	255		
25/09/14 18:38:51	3207518(192.168.1.51)	registration fingerprint: 5				
25/09/14 18:38:38	3207518(192.168.1.51)	registration of new users: 5				
25/09/14 18:38:39	3207518(192.168.1.51)	enter the menu				
25/09/14 17:23:20	3207518(192.168.1.51)	start up				
25/09/14 17:16:47	3207518(192.168.1.51)	shutdown				
25/09/14 17:16:49	3207518(192.168.1.51)	change settings: 352				
25/09/14 17:16:48	3207518(192.168.1.51)	change settings: 351				
25/09/14 17:16:43	3207518(192.168.1.51)	change settings: 350				
25/09/14 17:16:48	3207518(192.168.1.51)	change settings: 349				
25/09/14 17:16:41	3207518(192.168.1.51)	change settings: 348				
25/09/14 17:16:40	3207518(192.168.1.51)	change settings: 347				
25/09/14 17:16:38	3207518(192.168.1.51)	change settings: 341				
25/09/14 17:16:38	3207518(192.168.1.51)	change settings: 303				
25/09/14 17:16:27	3207518(192.168.1.51)	change settings: 302				
25/09/14 17:16:36	3207518(192.168.1.51)	change settings: 187				
25/09/14 17:16:00	3207518(192.168.1.51)	enter the menu				
25/09/14 17:15:57	3207518(192.168.1.51)	start up				
25/09/14 17:15:11	3207518(192.168.1.51)	shutdown				
25/09/14 17:15:08	3207518(192.168.1.51)	change settings: 352				
25/09/14 17:15:07	3207518(192.168.1.51)	change settings: 351				
25/09/14 17:15:06	3207518(192.168.1.51)	change settings: 350				
25/09/14 17:15:05	3207518(192.168.1.51)	change settings: 349				
25/09/14 17:15:04	3207518(192.168.1.51)	change settings: 348				

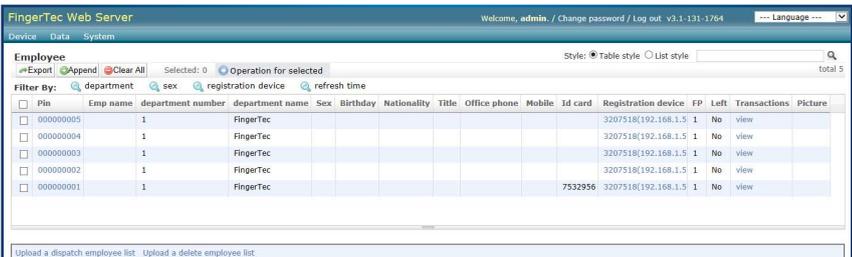
# User management

Newly enrolled users will be downloaded into the Webserver immediately. If enrolment is done before the Webserver is switched on, the download process will resume once it is switched on. Therefore, the administrator does not need to download any users manually from the terminals.

## Go to Data tab and Select Employee.



Webserver will then connect to all terminals to download the user information. This process is fully automatic.



Click the User ID to edit his/her additional information.



The user information is optional. However, do take note of the user's "Privilege". There are a few levels of privilege in our Fingertec Terminals, which are normal, registrar, administrator and supervisor (do check the different privileges in the hardware user manual).

### Employee

PIN: 00000003  
 Department: 1 FingerTec  
 Emp Name: Frankie Nielson  
 Password: abcd1234567  
 ID Card: 56789210  
 Privilege: Administrator  
 Access Group: 1  
 Access Timezone: 0000000000000000  
 Sex: Male  
 Birthday: 1976-09-26 Today | Date format is "ISO"; for example : 1999-01-10/1999-1-11  
 Address: Malaysia  
 Postcode: 47180  
 Office phone: 03-79821233  
 Home phone: 03-79821238  
 Mobile: 60121234567  
 Nationality: Malaysia  
 Title: Manager  
 Registration device: 3207518(192.168.1.51)

Submit Return

Click Submit so that the changes will take effect on the terminals.

Administrator can also transfer users to another terminal without re-enrolment. Select the users that you wish to transfer to another terminal. Under the 'Operation for selected' tab, select 'Transfer employee to the device' to start the process.

Device Data System

Employee

Filter By: department sex

Operation for selected

Pin	Emp name	department name	delete	Nationality	Title	Office phone	Mobile	Id card	Registration device	FP	Left	Transactions	Picture
<input type="checkbox"/>	00000005	1	Transfer employee to the device						3207518(192.168.1.5)	1	No	view	
<input checked="" type="checkbox"/>	00000004	1	Delete employee from the device						3207518(192.168.1.5)	1	No	view	
<input type="checkbox"/>	00000003	1	Move employee to a new device						3207518(192.168.1.5)	1	No	view	
<input type="checkbox"/>	00000002	1	Change employee's department						3207518(192.168.1.5)	1	No	view	
<input type="checkbox"/>	00000001	1	Enroll employee's fingerprint						3207518(192.168.1.5)	1	No	view	
								FingerTec					
								7532956	3207518(192.168.1.5)	1	No	view	

Upload a dispatch employee list Upload a delete employee list

You will be prompted a window requesting you to select the device where you want to transfer the employee to. Select the serial number and click Submit to proceed.

### Transfer employee to the device

Please Select device:

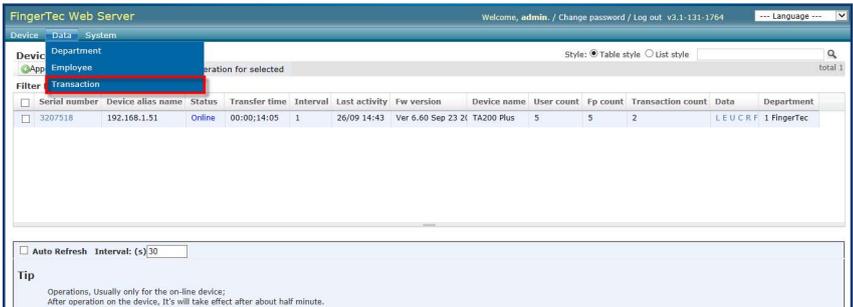
3207518 (192.168.1.51)

Submit Cancel

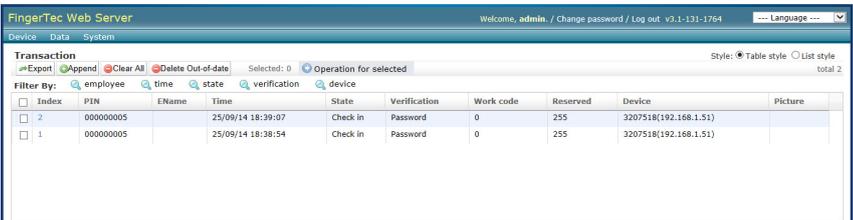
# How to check transaction logs from fingertec webserver

The Fingertec Web Server will automatically download transaction logs from all the terminals that have been connected during start up.

In order to check the transaction logs, click on 'Data' and select 'Transaction'.

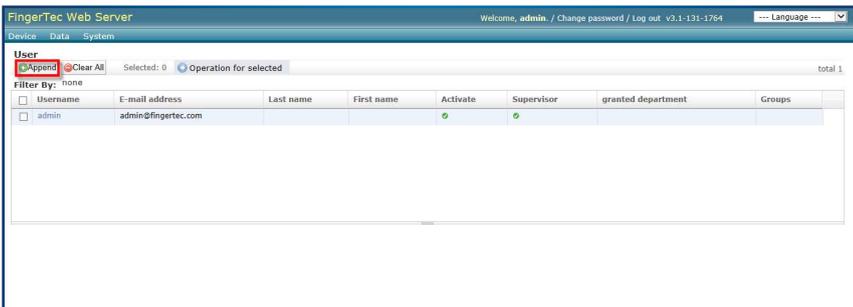


All the transaction logs will be then be displayed on this window. These logs will be stored directly into the MySQL Database.



# How to assign an administrator to webserver

An administrator can assign administrator privilege to other users of the Webserver. In order to do so, go to 'System Tab' and select 'User'.



Select 'Append' to add a new administrator to the list.



Fill in the relevant information and click 'Submit'.

Username:   
Required. 30 characters or fewer. Alphanumeric characters only (letters, digits and underscores).

Password:

Password again:

First name:

Last name:

E-mail address:

Staff status:   
Designates whether the user can log into this admin site.

Superuser status:   
Designates that this user has all permissions without explicitly assigning them.

# 4 • MYSQL ODBC COMPONENTS

## Installation of MYSQL ODBC

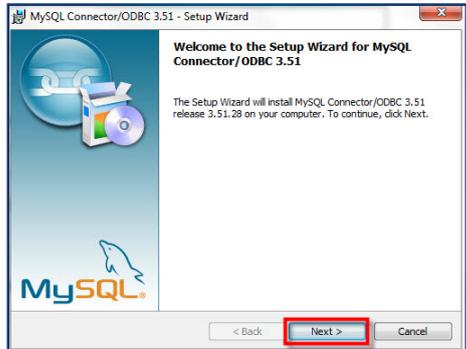
Prior to using the TCMSv2 software to import data from the webserver, you must first install the MySQL ODBC in order to connect with the software required.

Open the MySQL ODBC folder. Double click on the setup file to run it.

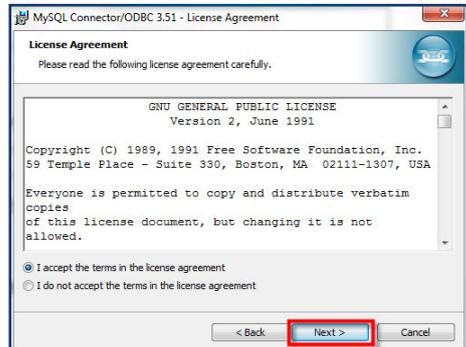
Name	Date modified	Type
 MyODBC-standard-3.51.9-win.msi	29/7/2011 3:57 PM	Windows Installer ...

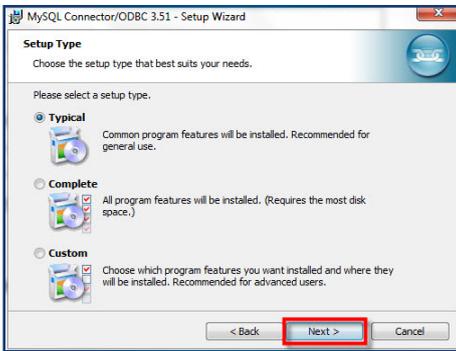
This will prompt the installer to start the Webserver installation.

Click 'Next' to begin.

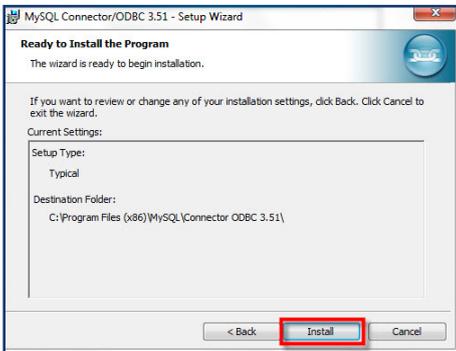


Read and understand the terms and conditions for the software. Once you have completed this task, you may then select "I accept the license agreement". Click Next to proceed.





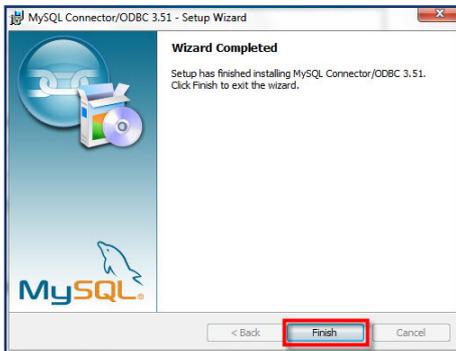
Select the 'Typical' setup type and click 'Next'.



Click 'Install' to initiate the installation process. Follow the on-screen instructions to complete the installation.



The installation will take a few minutes to complete.

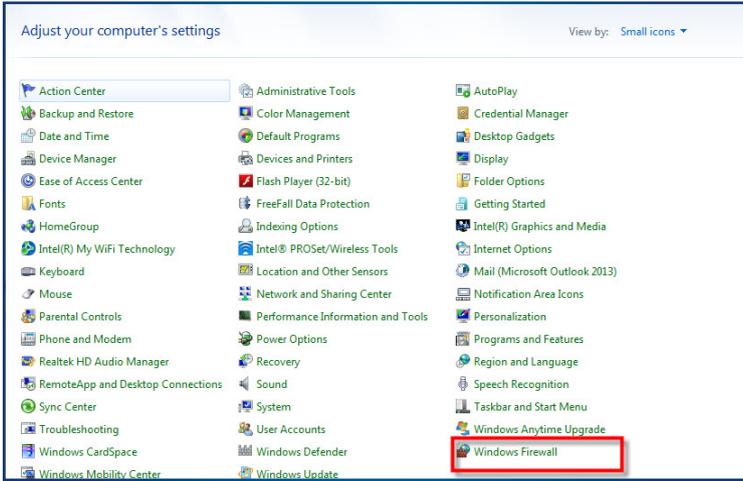


Click 'Finish' to end the process.

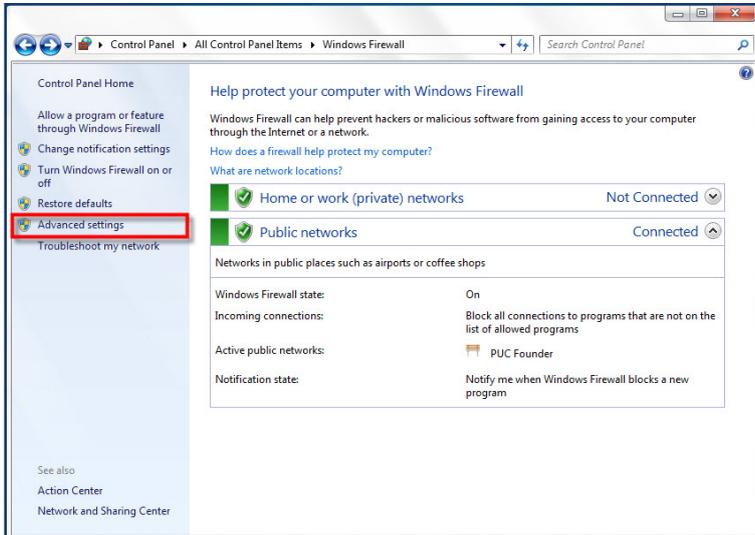
# Allowing port in windows firewall

In order for TCMS V2 to import data from Webserver, you will need to provide access to port 43306 in the system.

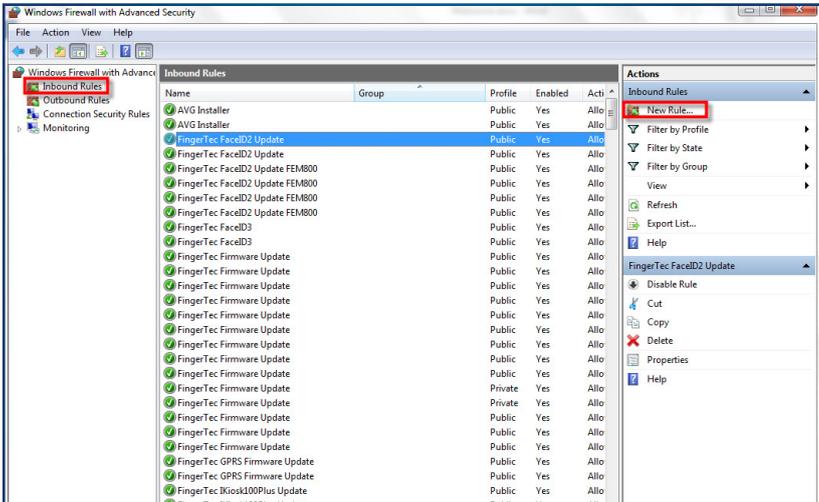
Go to Control Panel on your computer and look for the 'Windows Firewall' program.



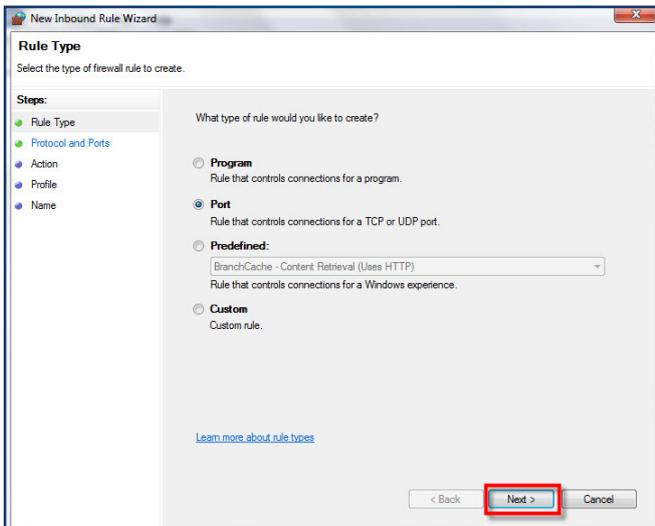
Select 'Advanced Settings' on the left side of the menu.



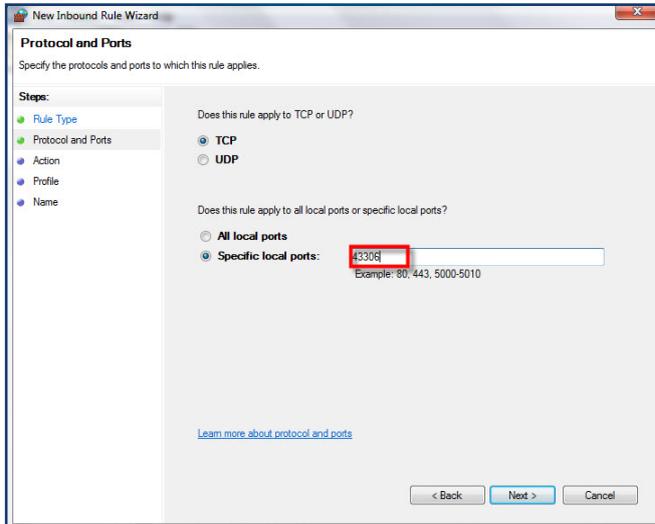
In order to add the port, click on 'Inbound Rules'. This will then display a list of options, select the 'New Rule' tab to move on to the next step.



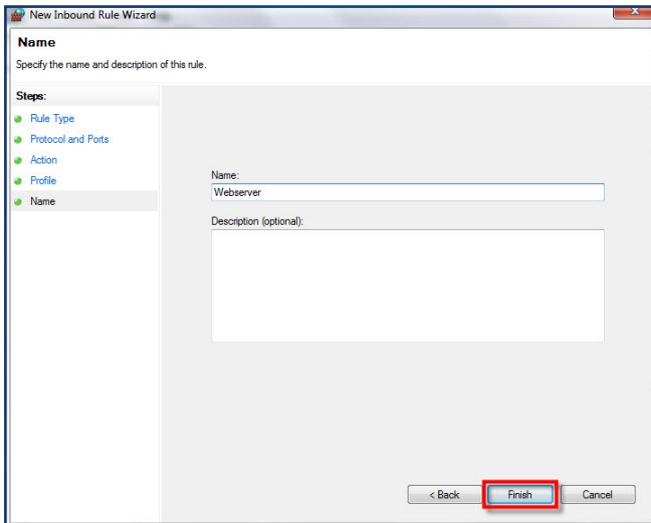
Select 'Port' and Click 'Next'.



Key in '43306' at the 'Specific Local Ports:' field.



You may then click 'Next' for the consequent (Action and Profile tabs) on-screen instructions.

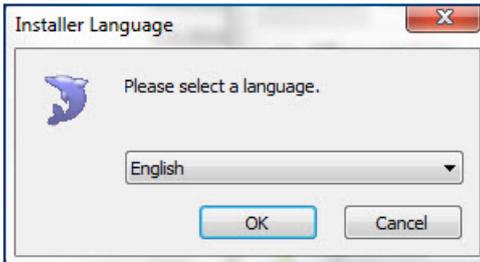


When you have reached the final step ('Name' tab), key in your desired Port name as prompted. Complete the setup by clicking on the 'Finish' button.

# 5 • SQLYOG COMMUNITY COMPONENTS

## Installation of Sqlyog Community

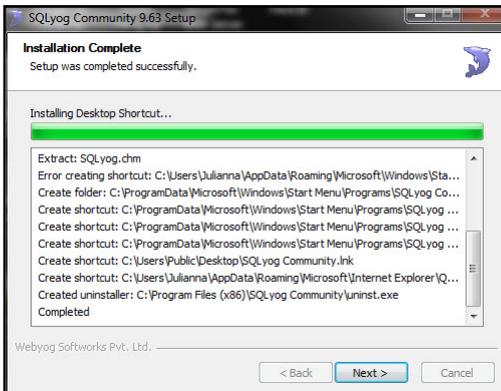
To install SQYOG, follow the on screen instructions.



**Step 1:** Select your preferred language.



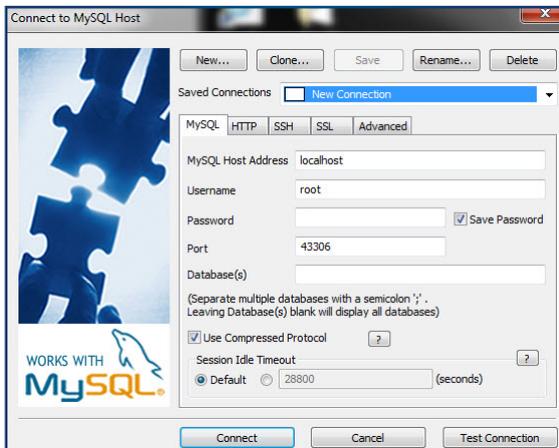
**Step 2:** Click 'Next'.



**Step 3:** The application will then initialize and begin installing.

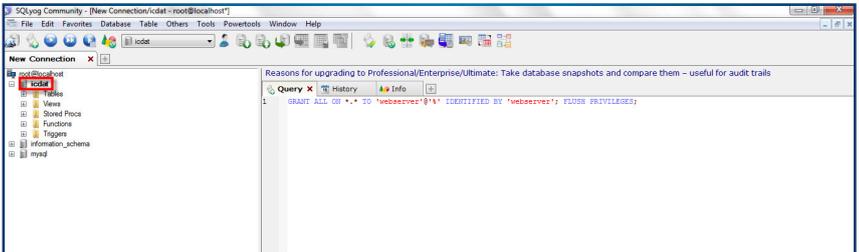
**Step 4:** Click 'Finish' to complete the installation of SQLYog Community.

Once the installation is complete, double click on the SQLYog icon on the desktop. Key in the credentials as per below.



Click on icdat on the left window and key in the following command (GRANT ALL ON \*.\* TO 'webserver'@%' IDENTIFIED BY 'webserver'; FLUSH PRIVILEGES;) on the right window to allow the webserver login.

After that, click on the double arrow to start the command.

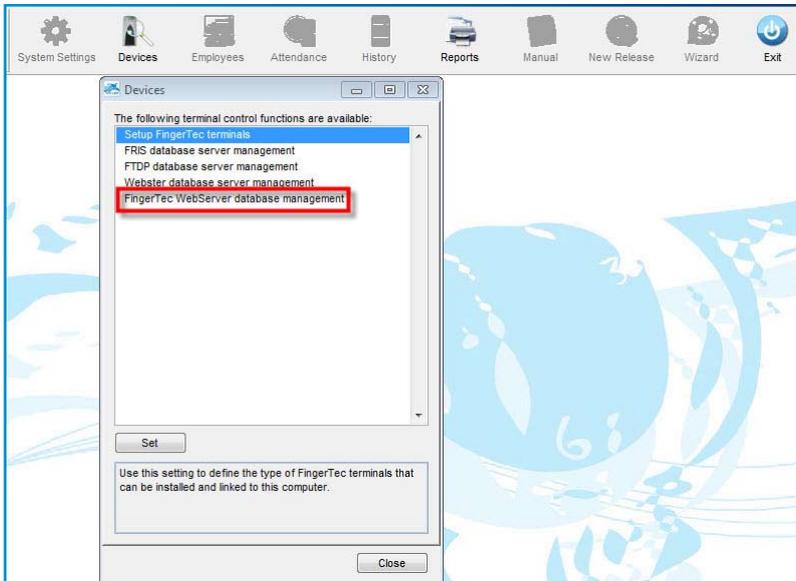


Once you have performed all the installations as instructed, you may then proceed to TCMS V2 to download the data.

# 6 • DATA DOWNLOAD TO SOFTWARE FROM WEBSERVER

## How To Download Data From Webserver Into TCMS V2

Launch the TCMSV2 software and click on the 'Devices' tab. From there, select the 'FingerTec Webserver database management' option.



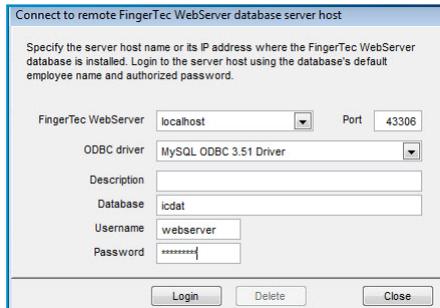
You will be prompted with the window as per below screenshot. Key in the credentials as per below.

Fingertec Webserver: Key in the IP address of the server and the location of the Webserver's installation.

Username: **webserver**

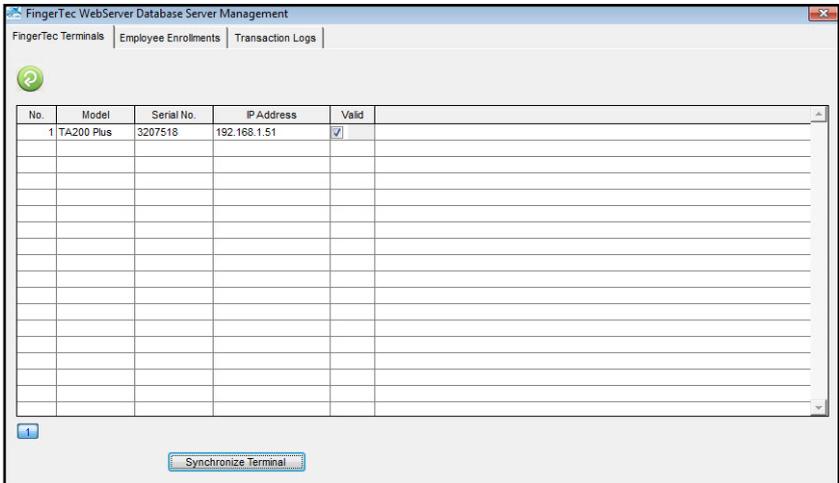
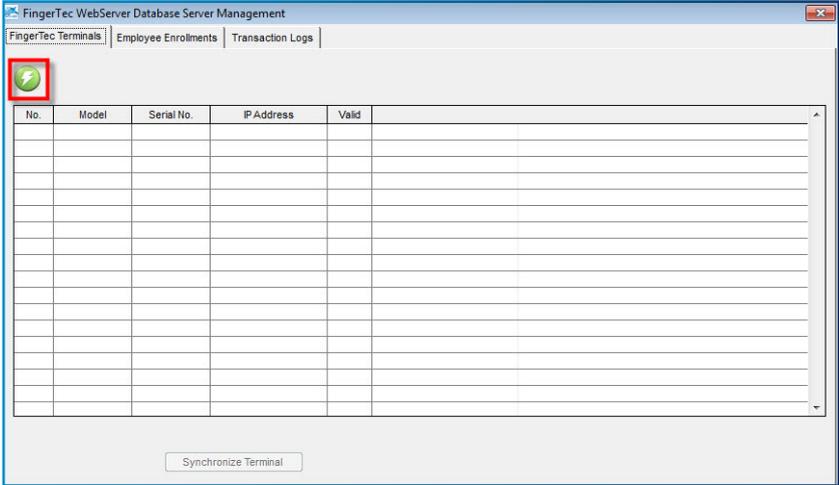
Password: **webserver**

After filling up the required fields, click 'Login'.



# Fingertec Terminals

At the first tab, click on the 'Lightning' icon. This will then display the terminal model type and other related details. Click on 'Synchronize terminal' to complete the process.



# Employee Enrollments

Go to the 2nd tab, and repeat the same step. Click on the 'lightning' icon and you will be able to see a list of employees that have already enrolled. In order to complete the process, click on 'Synchronize Terminal'.

The screenshot shows the 'FingerTec WebServer Database Server Management' application window. The 'Employee Enrollments' tab is selected. At the top, there are fields for 'Department' and 'Employee ID'. A green lightning bolt icon is highlighted with a red square. Below these fields is a table with the following columns: No., Employee ID, Name, Emp No., Department, Section, Employee Name, Valid, and Select. The table is currently empty. At the bottom, there is a 'Synchronise TCMSv2' button and a 'Select all pages' checkbox.

The screenshot shows the same application window, but now the table contains five rows of data. The first row is highlighted in blue. The 'Valid' column has a checkmark, and the 'Select' column has a button icon. A green lightning bolt icon is now visible in the 'Employee ID' field. The 'Synchronise TCMSv2' button and 'Select all pages' checkbox are still present at the bottom.

No.	Employee ID	Name	Emp No.	Department	Section	Employee Name	Valid	Select
1	00000001	FingerTec		FingerTec			✓	⊞
2	00000002	FingerTec		FingerTec			✓	⊞
3	00000003	FingerTec		FingerTec			✓	⊞
4	00000004	FingerTec		FingerTec			✓	⊞
5	00000005	FingerTec		FingerTec			✓	⊞



