

# UNIS-B PLUS

## User Guide



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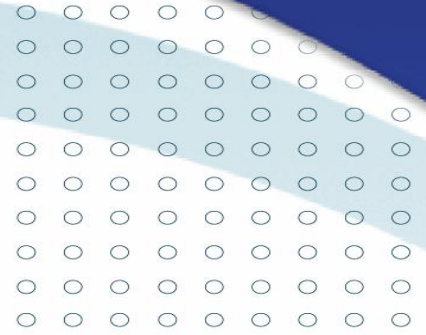


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# **Chapter 1**

## **Product Introduction**

## Product Introduction

### 1.1 Product Overview

Unis-B plus is an app installed in a smart phone that can manage and communicate with fingerprint recognition access controller (FMD10). Unis-B plus provides various functions to manage an access controller more easily and conveniently by using Unis-B plus app installed in a smart phone without the installation of a separated program on a PC.

### 1.1 Main Features

Convenient access control environment

Once any user accesses the Unis-B plus app installed in a smart phone, the user can use various functions required for access control, such as user management and log management, and organize the manger environment quickly and conveniently.

Wireless communication using Bluetooth

Bluetooth communication enables to control FMD10 without any PC or other wireless system.

More convenient and simple UI

Intuitive and simple configuration with the minimum functions required for access control enables to easily understand and use Unis-B plus.

Convenient program installation and firmware download

Unis-B plus installed in a smart phone enables download and install the latest version of app and firmware more quickly and easily.

### 1.3 Minimum and Required Requirements

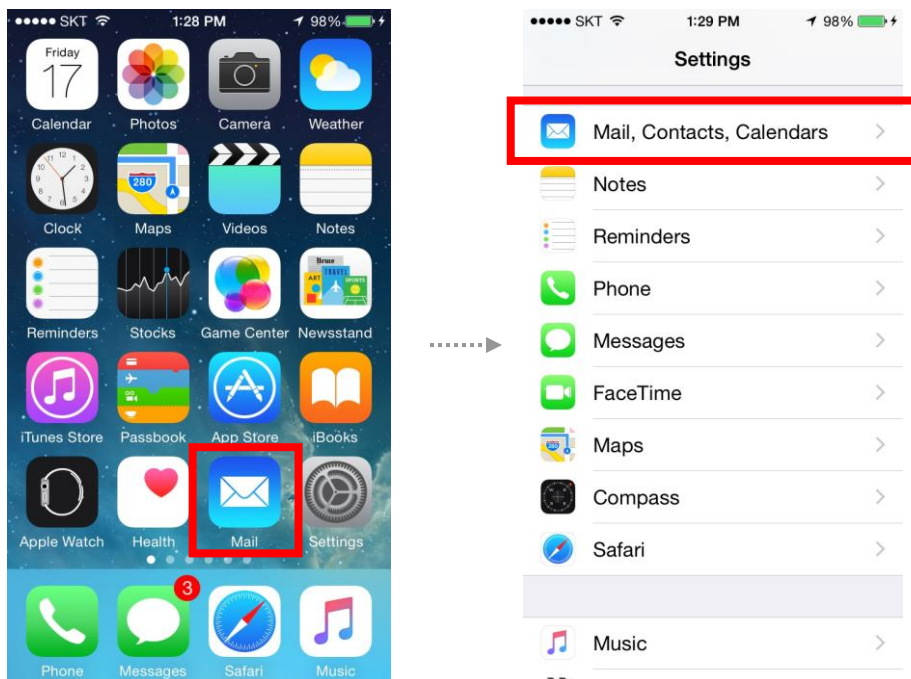
The minimum and required requirements to use Unis-B plus are listed in the table below.

Items	Minimum Requirements	Required Requirements
Process (CPU)	Dual Core, 1.2 MHz ARM Cortex-A9 or higher	Quad Core, 1.6 GHz ARM Coretex-9 or higher
iOS Version	7.0 or later	
Android Version	4.3 or later	4.3 or later
Memory (RAM)	DDR2 1024 MB or more	DDR2 2048 MB or more

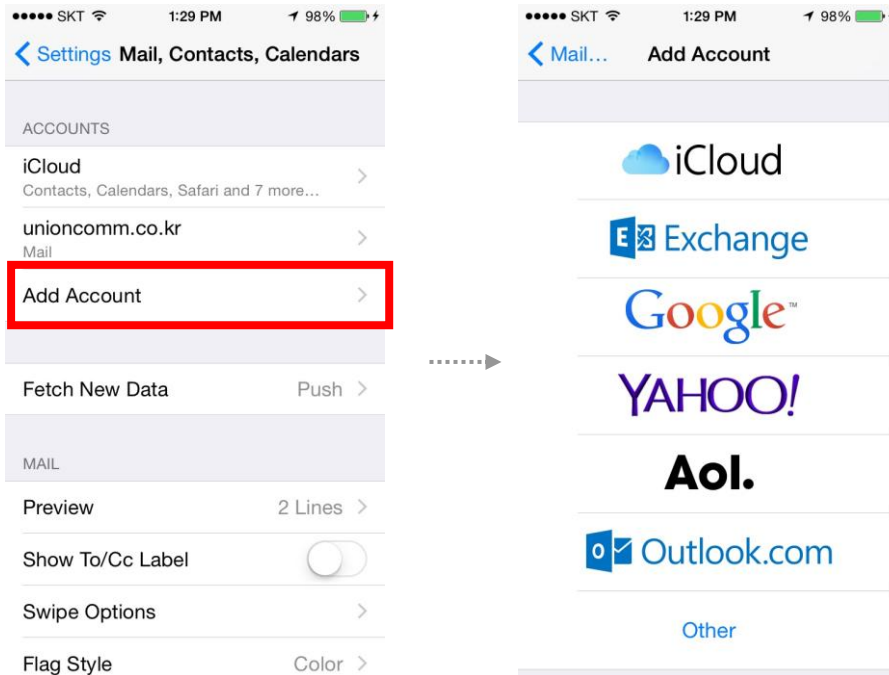
#### 1.4 Email Setting (Only for iOS)

Unis-B plus provides the function to send logs via email in .csv file format. To send logs via email, an additional account must be applied to a smart phone.

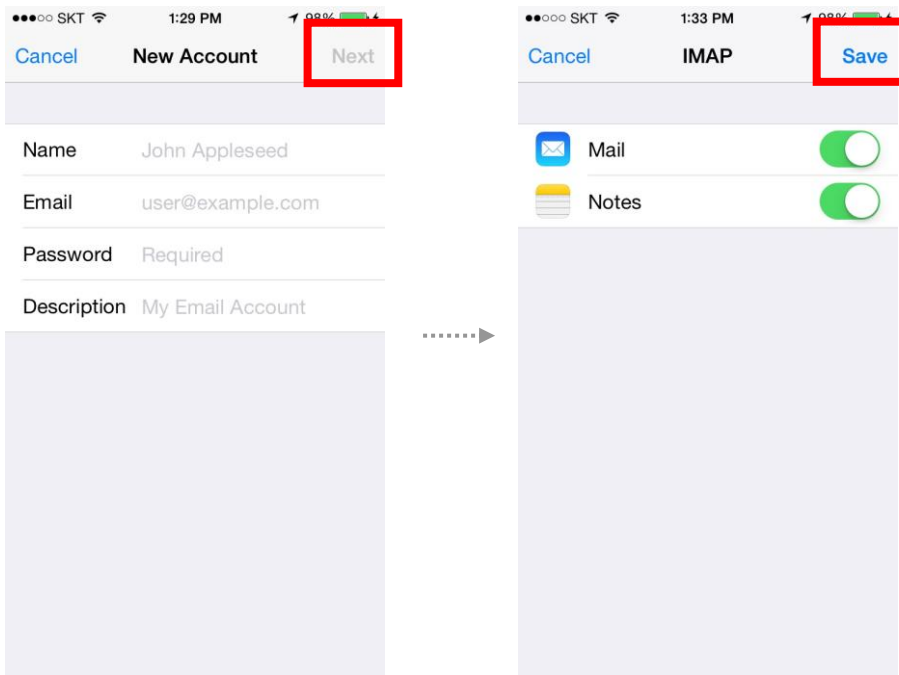
- ① Select the [Mail, Contacts, Calendars] item from the Smart Phone - Settings



- ② To select the mail to add, select the [Add Account] item.



- ③ After entering user's mail account information, press the [Next] button and the [Save] button in sequence to complete the account addition.



## 1.5 Common Popup Message

### Web popup messages

Check the network status.

<OK>

<When network cannot not be used (timeout 5 sec.)>

Unknown error (errorcode)  
Contact administrator

<OK>

<When an undefined error code is received during Web communication>

Contact administrator

<OK>

<When other exceptions occur>

### Bluetooth popup messages

Unsupported device. App is ended.

<OK>

<When the phone is not supported>

Check the Bluetooth setting.

<OK>

<When BLE is not turned on>

Try again

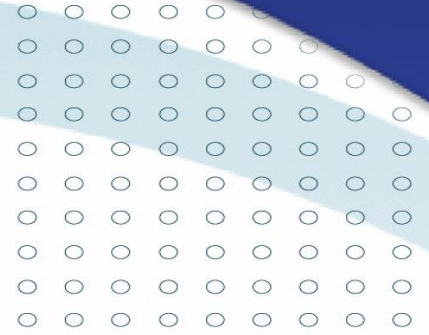
<OK>

<In case of undefined exceptions>

The terminal was disconnected

<OK>

<When BLE connection is disconnected.>



# **Chapter 2**

## **Product Installation**



## Product Installation

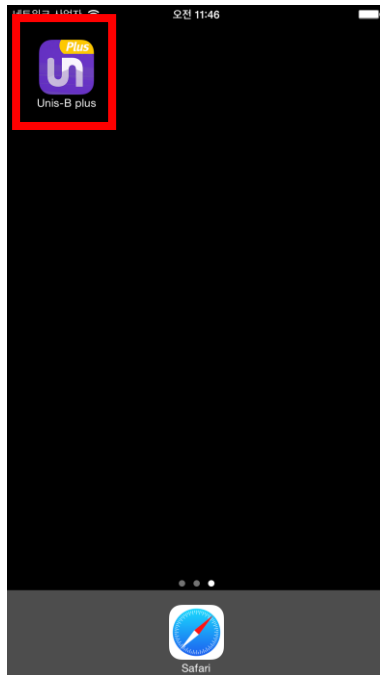
### 2.1 Installing Unis-B plus App

Search Unis-B plus in App store for iOS and Play Store for Android and install Unis-B plus app.

<Future application – To be distributed after passing the requested test>

## 2.2 Running Unis-B plus App

After installing Unis-B plus, run the program by pressing the Unis-B plus icon. The initial screen will be automatically moved to the Intro menu after 2 – 3 seconds.



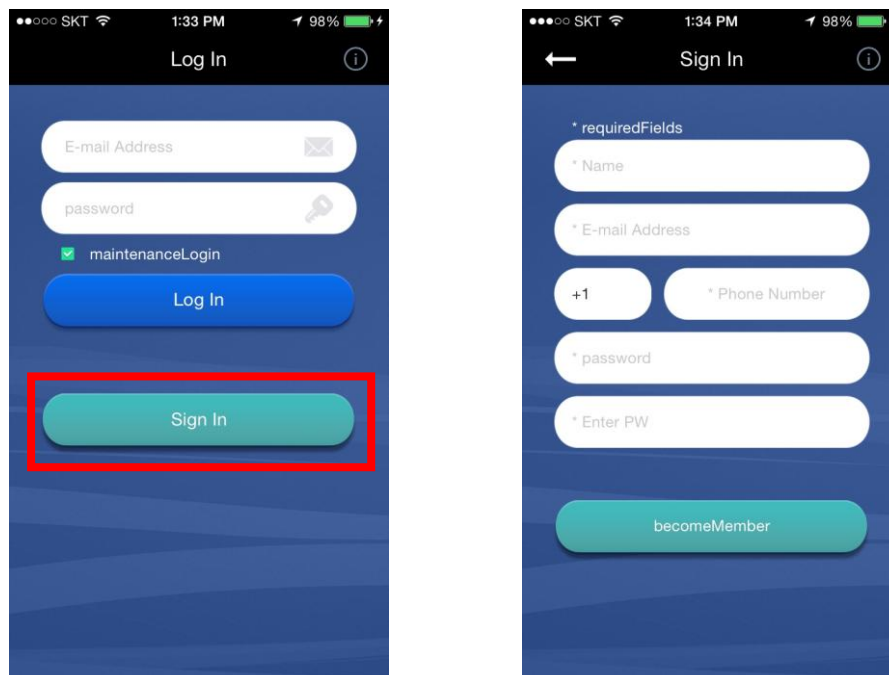
# **Chapter 3**

## **Login/Logout**

### 3.1 Login

#### Sign-In

If there is no login account, select the [Sign In] button on the Log In page to move to the Sign In page. Fill all login information in the input window and select the [becomeMember] button to complete the membership registration.



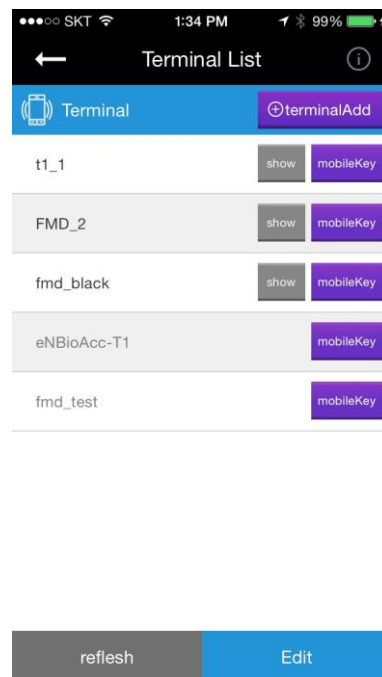
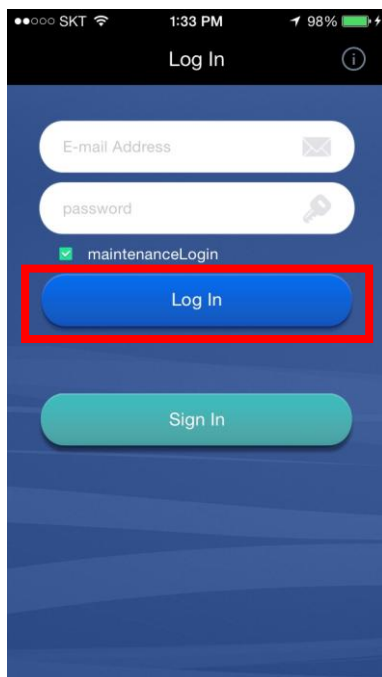
- ✓ Name: If Invalid characters are included in the input window when selecting the [becomeMember] button, a popup window showing “Invalid characters are included” appears. If the input buffer length exceeds 15 bytes, a popup window showing “Maximum input buffer length is exceeded” appears.
- ✓ Email Address: If the input length exceeds 20 characters, a popup window showing the message “you cannot input any more characters” appears. If the email address format is not correct, a popup window showing the message “Check the email format” appears.
- ✓ Password: If the input length exceeds 20 characters, a popup window showing the message “You cannot input any more characters” appears.
- ✓ Re-enter Password: If the input length exceeds 20 characters, a popup window showing the message “you cannot input any more characters” appears. If the value of the Re-enter Password input window is different from that of the Password input window, a popup window showing the message

"Confirmed Password is not correct" appears.

- ✓ Country Number: The default value is "+1" (USA). The country number applied when member subscription or mobile key issuance is successfully completed is displayed in the page showing the country number.
- ✓ Phone Number: If you attempts to enter the letters other then numbers, a popup window showing the message "Only numbers can be entered" appears. If the input length exceeds 20 characters, a popup window showing the message "You cannot input any more characters" appears.
- ✓ [becomeMember] button: If any input window is empty, the cursor moves to the empty input window. If the membership registration is successfully completed, a popup window showing the message "You have completed your membership registration" appears. If you press the [OK] button on the popup window, the screen enters the web Log In page. If you attempt the membership registration with the already registered email address, a popup window showing the message "You are an already registered member" appears. If the membership registration is failed, a popup window showing the message "You are failed to be a member" appears.

## Login

If you enter your email address and a password and then select the [Log In] button, the Terminal List page is displayed.



- ✓ Email Address: If the input length exceeds 20 characters, a popup window showing the message "you cannot input any more characters" appears. If the email address format is not correct when pressing the [Log In] button, a

popup window showing the message “Check the email format” appears.

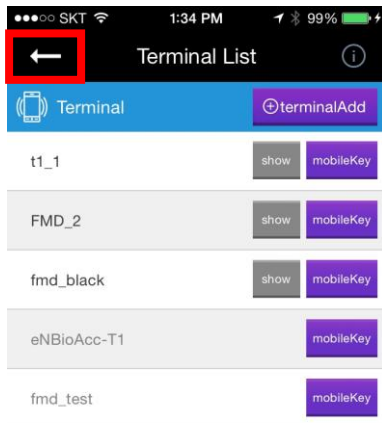
- ✓ Password: If the input length exceeds 20 characters, a popup window showing the message “you cannot input any more characters” appears.
- ✓ [Log In] button: If any input window is empty, the cursor moves to the empty input window. If you are successfully login into the terminal, the Terminal List page is displayed. If you enter invalid email address or invalid password, a popup window showing the message "Please check your email address" appears.

## 3.2 Logout

### Logout

To log out from the terminal, select the [←] button on the Terminal List page or the [logout] button on the Information page.

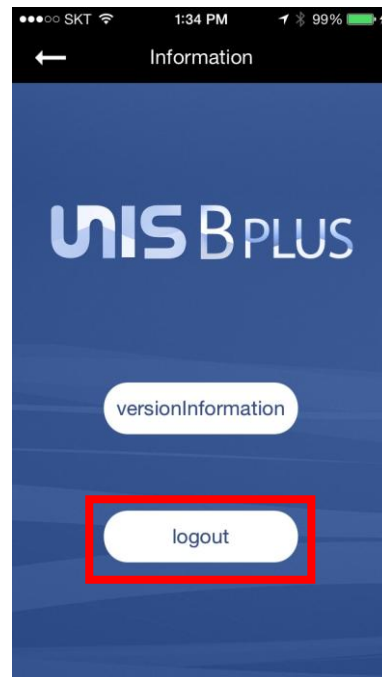
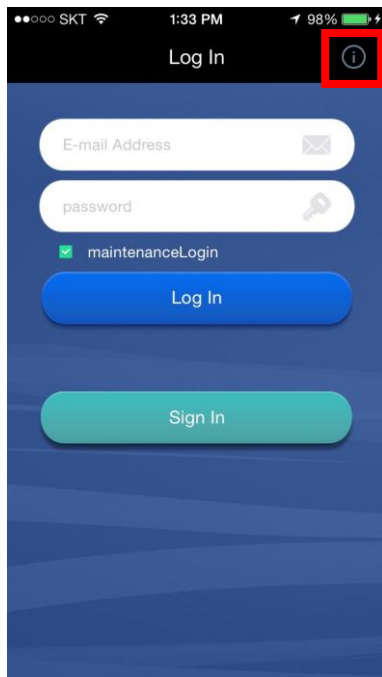
If you are successfully login into the terminal, the Terminal List page is displayed.



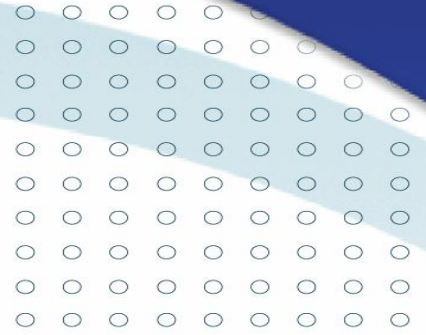
- ✓ [Logout] button: A popup window showing the message “Do you really want to logout?” appears.

To move to the Information page, select the [Information] button on the top right of each page. If you enter the Information page after login, the [logout] button is displayed. If not, the [logout] button is not displayed. If you select the [logout] button, the screen moves to

the Log In page.



- ✓ [Logout] button: A popup window showing "Do you really want to logout?" appears.



# **Chapter 4**

## **Terminal Management**

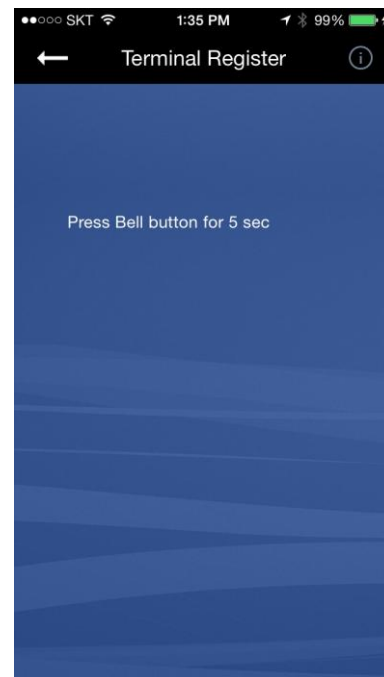
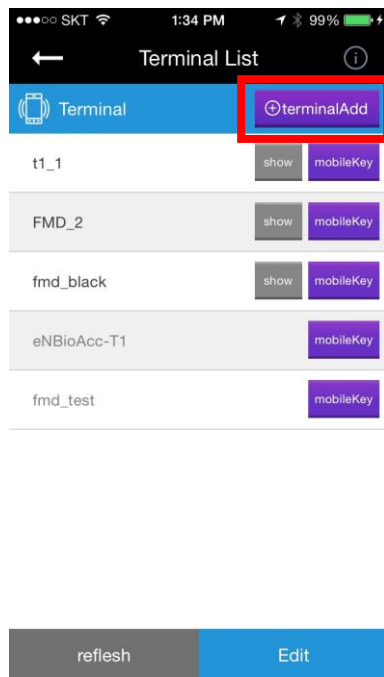


## Terminal Management

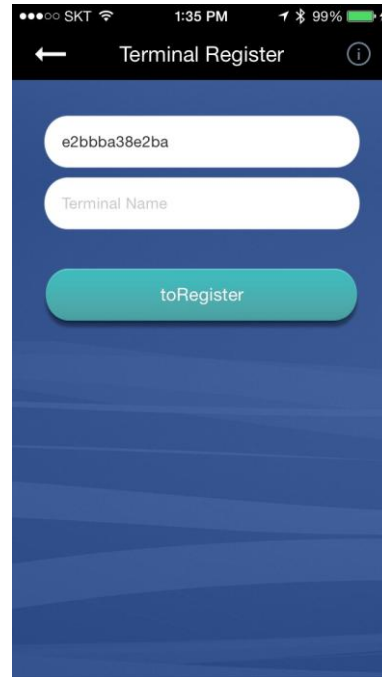
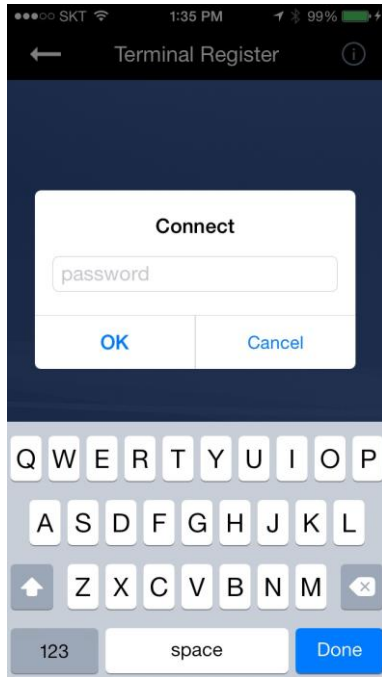
### 3.1. Terminal Management

#### Adding Terminal

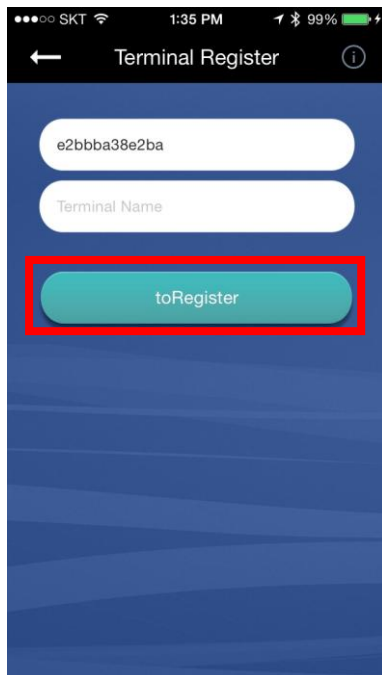
- ① To move to the Terminal Search page, press the [terminalAdd] button on the top right of the Terminal List page.



- ② If you press the Bell part of the FMD to be registered for more than 5 seconds, the corresponding terminal is searched and the Connection popup window appears. If you connect the terminal, the screen is moved to the Terminal Register screen displaying the MAC address of the terminal. The login password is set to "9999" in factory setting, and you can change the password in the Terminal Setting menu.



③ To complete the terminal registration, press the [toRegister] button.

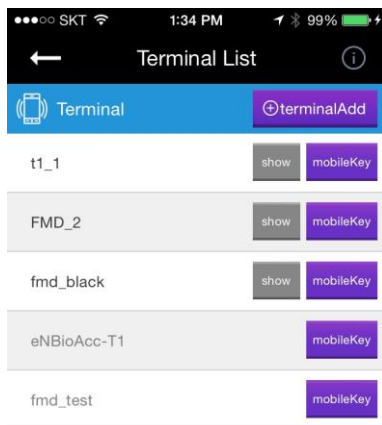


- ✓ Terminal MAC: The MAC address consists of 12 alphanumeric characters.
- ✓ Terminal Name: If Invalid characters are included in the input window when selecting the [toRegister] button, a popup window showing “Invalid characters are included” appears. If the input buffer length exceeds 13 bytes, a popup window showing “Maximum input buffer length is exceeded” appears.
- ✓ [toRegister] button: If any input window is empty, the cursor moves to the empty input window. If the membership registration is successfully completed, a popup window showing the message "You have completed your

membership registration” appears. If you press the [OK] button on the popup window, the screen enters the Terminal List page. If you attempt the membership registration with the already registered terminal, a popup window showing the message "You are an already registered member" appears. If the membership registration is failed, a popup window showing the message "You are failed to register the terminal" appears.

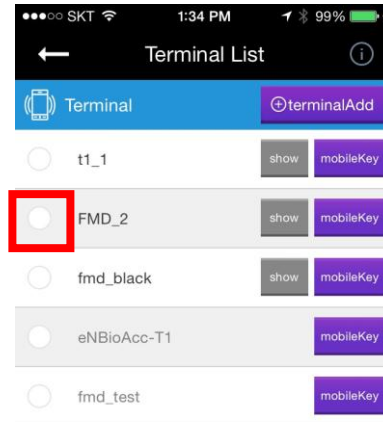
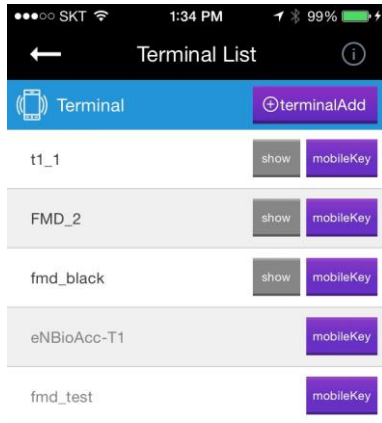
## Searching Surrounding Terminals

To search if the terminals in the terminal list exist around you, select the [Refresh] button.



## Deleting Terminals

To delete a terminal, press the [Edit] button in the Terminal List, check the radio box next to the terminal to be deleted and then press the [Delete] button.

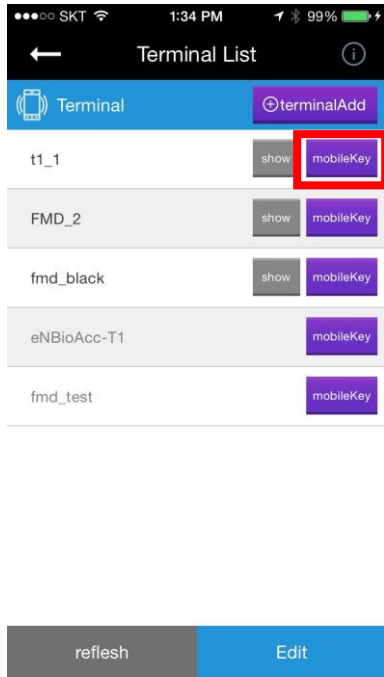


- ✓ [Delete] button: If you select a terminal to be deleted, a popup window asking if you want to delete the terminal appears. If you press the [OK] button on the popup window, the terminal is deleted and a popup window showing the message “The selected terminal was deleted” appears. If you select the [OK] button on the popup window, the terminal list is imported again. If no terminal is selected, a popup window showing the message “Please, select the terminal to be deleted” appears. If no terminal is selected, a popup window showing the message “Please, select the terminal to be deleted” appears.

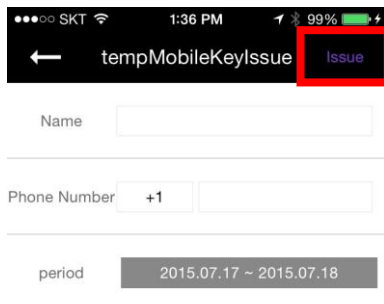
## 3.2 Issuance of Temporary Mobile Keys

### Issuing Temporary Mobile Keys

- ① To issue a temporary mobile key, move to the Temporary Mobile Key screen by pressing the [mobileKey] button in the Terminal List page.



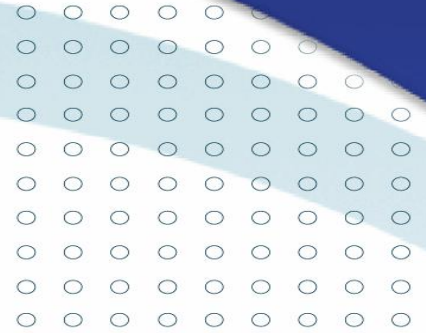
- ② Press the [Issue] button after entering the values to all input windows, and then the temporary user registration is completed.



- ✓ Name: If Invalid characters are included in the input window when selecting the [Issue] button, a popup window showing the message “Invalid characters are included” appears. If the length of the input information exceeds 15 bytes, the popup window showing “Maximum input buffer length is exceeded” appears.
- ✓ Country Number: The default value is “+1” (USA). The country number

applied when member subscription or mobile key issuance is successfully completed is displayed in the page showing the country number.

- ✓ Phone Number: If you attempts to enter the letters other then numbers, a popup window showing the message "Only numbers can be entered" appears. If the input length exceeds 20 characters, a popup window showing the message "You cannot input any more characters" appears.
- ✓ Period: Today's date and next day's date are separately entered to the start date and the end date and cannot be modified.
- ✓ [Issue] button: If any input window is empty, the cursor moves to the empty input window. A popup window showing the message "A mobile key is issued in your mobile phone. The issued key cannot be returned. Do you really want to issue?" appears. If you press the [OK] button and a key is successfully issued, a popup window showing the message "The issue of a temporary mobile key has been completed" appears. Move to the Terminal List page, select the [OK] button on the popup window.



# **Chapter 4**

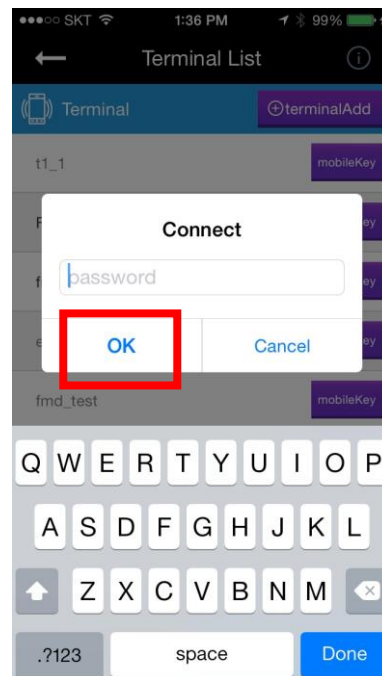
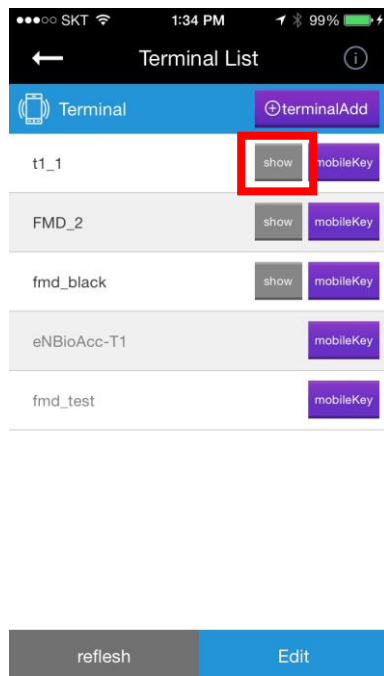
## **Manager Menu**

## Manager Menu

The Unis-B plus app does not provide the login authority to users, and the manager can control all functions of the terminal as well as the user management.

### 4.1 Entering the Manager Menu

If select the [show] button on the Terminal List page, the Connect popup window is displayed. After entering the manager password of the terminal, press the [OK] button. The manager password is set to [9999] in factory setting. The manager password can be changed in Terminal – [Setting] menu. If you are successfully login into the terminal, the screen moves to the Terminal List page.



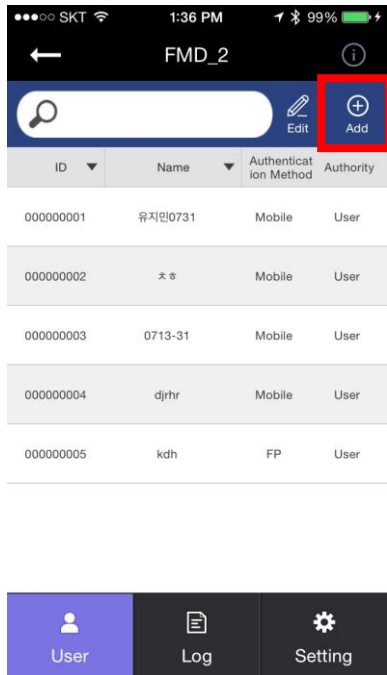


## 4.2 User Management

The manager can execute the functions required for the user management, such as addition, deletion and edition of users, by using the User Menu.

### Registering Users

Move to the User Registration page by pressing the [Add] button on the top right and then enter the user information to be added.



SKT 1:37 PM 99%  
 ← FMD\_2 Save  
 ID   
 Name   
 Authority   
 Authentication Method

SKT 1:37 PM 99%  
 ← FMD\_2 Save  
 ID   
 Name   
 Authority   
 Authentication Method   
 Phone Number    
 Period  ~

Left figure: <In case of the authentication with fingerprint, card, fingerprint or card and fingerprint & card>

Right figure: <In case of the mobile authentication>

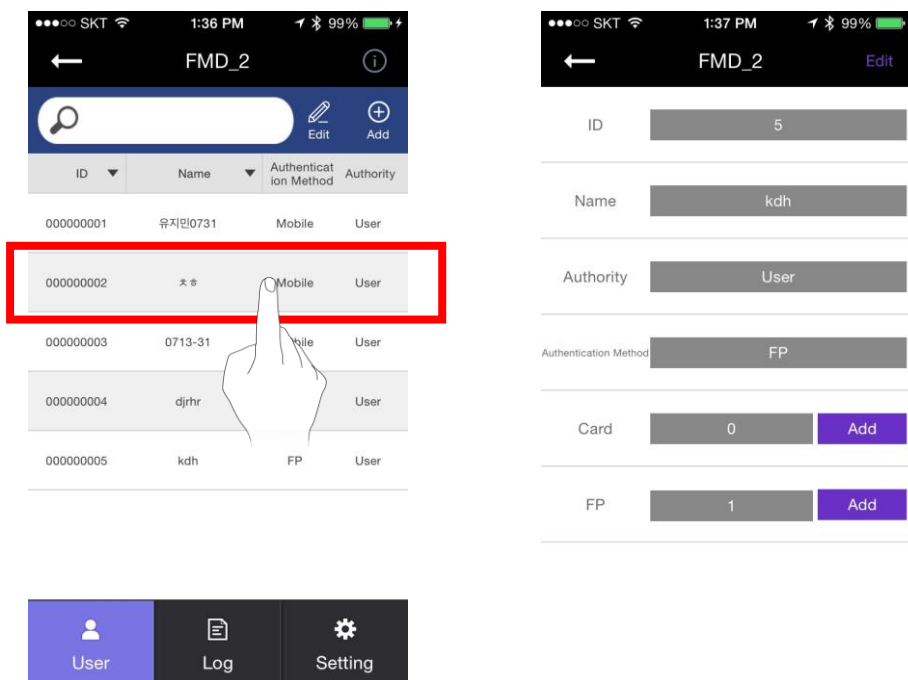
- ✓ ID : If you attempts to enter the letters other then numbers, a popup window showing the message "Only numbers can be entered" appears. If the input length exceeds 9 characters, a popup window showing the message "You cannot input any more characters" appears. If the value is not in the valid input range when selecting the [Save] button, a popup window saying "Input range error" appears.
- ✓ Name: If Invalid characters are included in the input window when selecting the [Save] button, a popup window showing the message "Invalid characters are included" appears. If the length of the input information exceeds 15 bytes, the popup window showing "Maximum input buffer length is exceeded" appears.
- ✓ Authority: Select one of the manager or the user authority.  
In case of the mobile authentication, the user authority is automatically selected and cannot be changed.
- ✓ Authentication Method
  - **FP:** The registered fingerprint is used to authenticate the corresponding user. If you select FP (fingerprint) and then press the User Addition – [Save] button, the terminal is automatically ready for fingerprint input and requires the same fingerprint twice.
  - **Card:** The card issued for the terminal is used to authenticate the

corresponding user. If you select Card and then press the User Addition – [Save] button, the terminal is automatically ready for card input. After that, the user is added if you contact the card to the terminal.

- **FP or Card:** After registering both of a card and a fingerprint, the corresponding user is authenticated by using a desired authentication method between the card or the fingerprint. When registering the authentication information, you must register the card before registering the fingerprint.
  - **FP & Card:** After registering both of a password and a fingerprint, both of the card and the fingerprint must be used to authenticate the corresponding user. When registering the authentication information, you must register the card before registering the fingerprint. In addition, when authenticating the user, the card authentication must precede the fingerprint authentication.
  - **Mobile:** A separate authentication is not required. When the registration is completed, the certification number for the issuance of mobile key is sent through the registered phone number.
- ✓ Country Number: The default value is “+1” (USA). The country number applied when member subscription or mobile key issuance is successfully completed is displayed in the page showing the country number.
  - ✓ Phone Number: If you attempts to enter the letters other then numbers, a popup window showing the message "Only numbers can be entered" appears. If the input length exceeds 20 characters, a popup window showing the message "You cannot input any more characters" appears.
  - ✓ Period: By default, today’s date is entered to the start date and the end date. The start date must be prior to the end date. If the selected date is invalid, a popup window showing the message "The start date of the period must be prior to the end date" appears. The end date must follow the start date. If the selected date is invalid, a popup window showing the message "The end date of the period must follow the start date" appears.
  - ✓ [Save] button: If any input window is empty, the cursor moves to the empty input window. If a user is successfully added, a popup window showing the message "The user has been added" appears. To move to the User page, select the [OK] button on the popup window.

## Editing User Information

To modify the registered user information, select a user from the user list, press the [Edit] button on the top and select and modify the user information. However, in case of the mobile authentication, you can view detailed information but cannot modify the information.



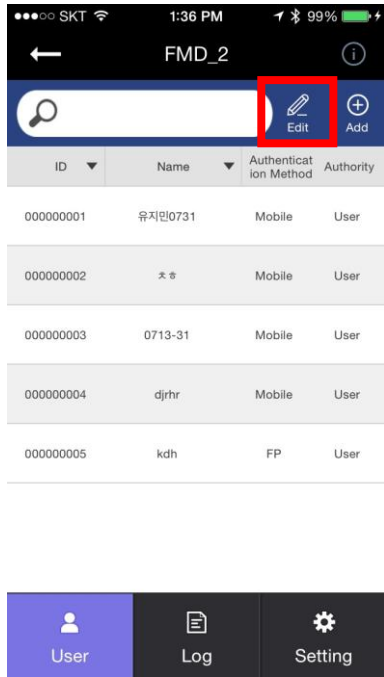
- ✓ ID : Cannot not edited.
- ✓ Name: If Invalid characters are included in the input window when selecting the [Save] button, a popup window showing the message “Invalid characters are included” appears. If the length of the input information exceeds 15 bytes, the popup window showing “Maximum input buffer length is exceeded” appears.
- ✓ Authority: Select one of the manager or the user authority.  
In case of the mobile authentication, the user authority is automatically

selected and cannot be changed.

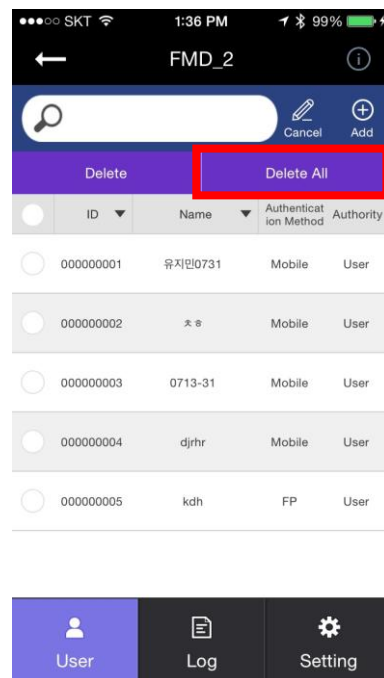
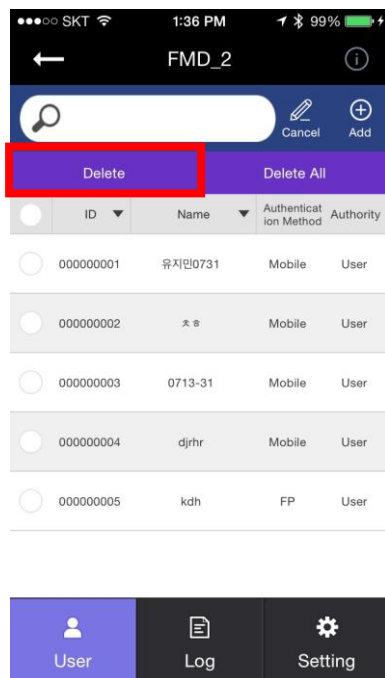
- ✓ Authentication Method
  - Fingerprint: The registered fingerprint is used to authenticate the corresponding user. If you select FP (fingerprint) and then press the User Addition – [Save] button, the terminal is automatically ready for fingerprint input and requires the same fingerprint twice.
  - Card: The card issued for the terminal is used to authenticate the corresponding user. If you select Card and then press the User Addition – [Save] button, the terminal is automatically ready for card input. After that, the user is added if you contact the card to the terminal.
  - **FP or Card:** After registering both of card and fingerprint, the corresponding user is authenticated by using a desired authentication method between the card or the fingerprint. When registering the authentication information, you must register the card before registering the fingerprint.
  - **FP & Card:** After registering both of a password and a fingerprint, both of the card and the fingerprint must be used to authenticate the corresponding user. When registering the authentication information, you must register the card before registering the fingerprint. In addition, when authenticating the user, the card authentication must precede the fingerprint authentication.
  - **Mobile:** A separate authentication is not required. When the registration is completed, the certification number for the issuance of mobile key is sent through the registered phone number.
- ✓ Card Registration: Press the [Add] button in the Card field to enter the card to be added to the FMD10 terminal. If a card is successfully added, the number on the left side of the [Add] button increases by 1.
- ✓ FP Registration: Press the [Add] button in the FP field to enter the fingerprint to be added to the FMD10 terminal. If you successfully enter the same fingerprint twice, the number on the left side of the [Add] button increases by 1.
- ✓ [Save] button: If any input window is empty, the cursor moves to the empty input window. If a user information is successfully changed, a popup window showing the message "The user information has been changed" appears. To move to the User page, select the [OK] button on the popup window.

## Deleting Users

- ① To delete users, press the [Edit] button on the user list.

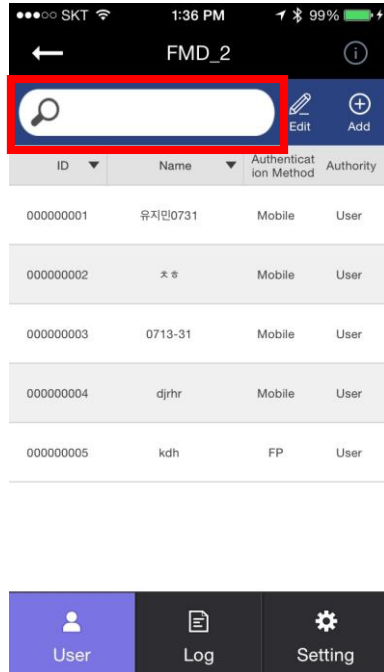


- ② If you want to delete all users, press the [Delete All] button. If you want to delete a part of the users, select the users to be deleted and then press the [Delete] button.

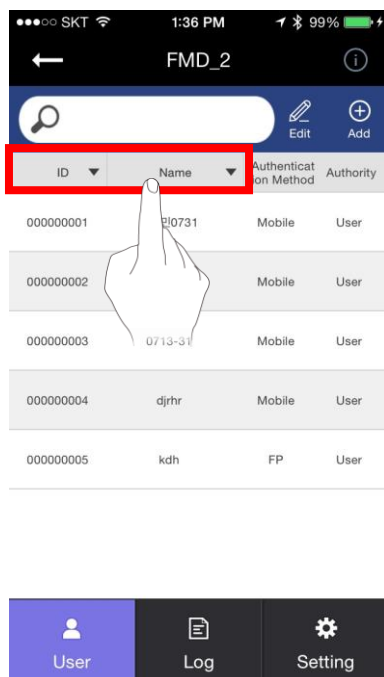


## Searching Users

To search a specific user, enter a desired user name in the Search window on the top of the user list.

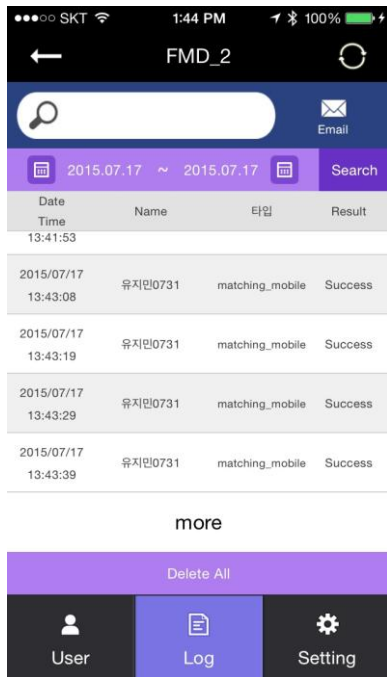


To automatically sort the users in ascending/descending order, touch UID or Name item with your finger.



### 4.3 Log

You can search the logs showing the user access records to the terminal. To search the user authentication log, press the [Log] menu from the terminal menu. Up to 5 logs can be imported. if you want to view more than 5 logs, press the [More] button for iOS or import the logs at the end of the scroll for Android.



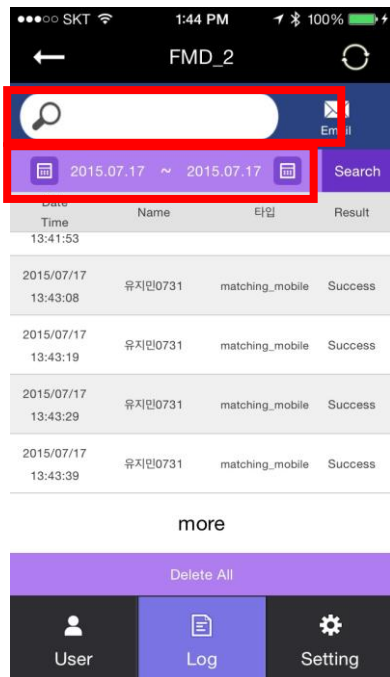
#### Results

- Success: The user was successfully authenticated.
- Unregistered User: Unregistered card
- Matching Failure: The fingerprint was not matched.
- Fingerprint Input Failure: The terminal did not recognize the fingerprint.
- Data Error: The length of the mobile key is invalid.
- Expired Key: The date of the mobile key was expired.
- Not Authorized Key: The mobile key is not authorized yet.
- Unregistered User: The mobile key user was deleted.
- Terminal Matching Failure: The MAC address of the mobile key is not matched.



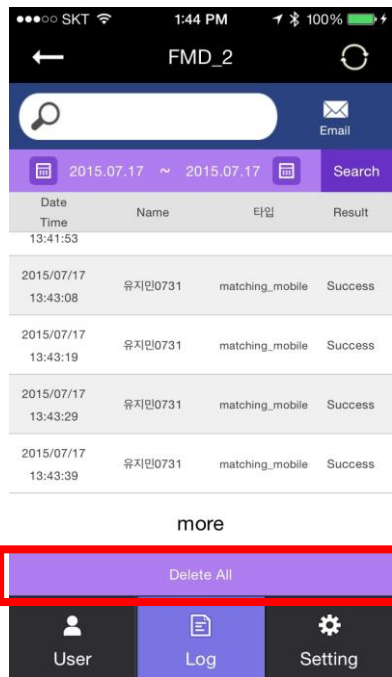
## Search Log

To search logs, select the period on the top and the press the [Search] button. To only search the log of a specific user, enter the user name in the search window.



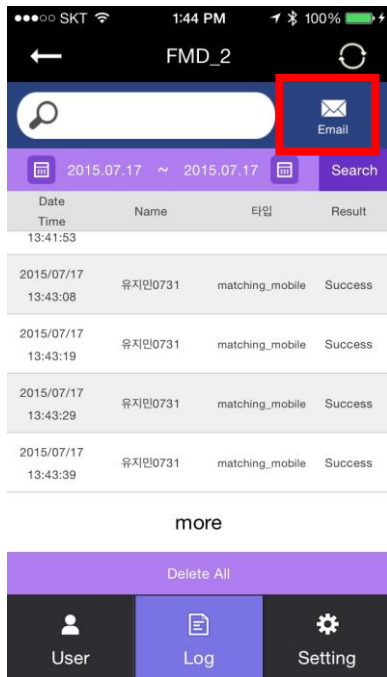
## Delete Log

To delete logs, press the [Delete All] button on the bottom of the page and then press the [OK] button on the popup window.

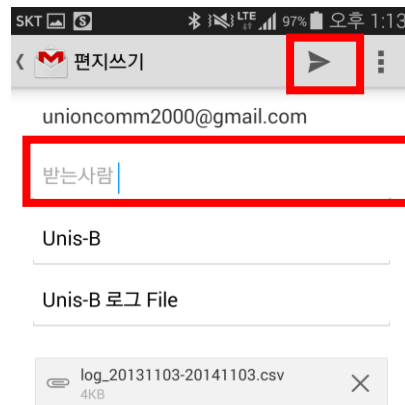
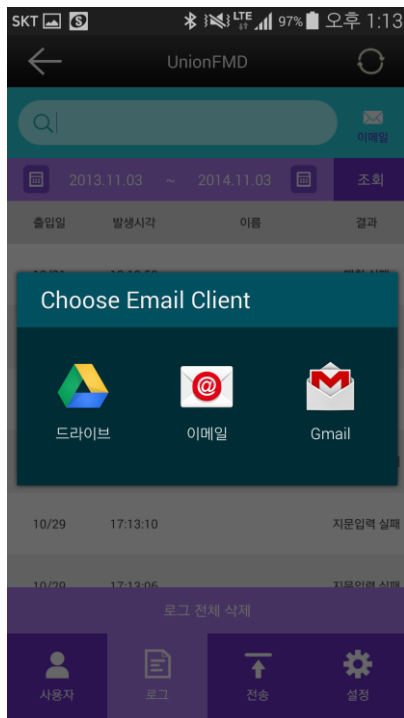


## Export Log

- ① To send logs via email, press the [Email] button.



- ② Enter the email address of the recipient and then press the [Send] button to send the logs.



<Android>



<iOS>

- Send iOS Email: If email account has not been set, a popup window showing the message "Please, check the email setting" appears. If the popup window appears, refer to "Chapter 1 Product Introduction – 1.4 Email Setting".

## 4.4 Setting

The terminal manager can set the basic information about the terminal with the setting menu.



To change the terminal setting, press the [Edit] button on the top right to switch into the edit mode.



### Setting Information

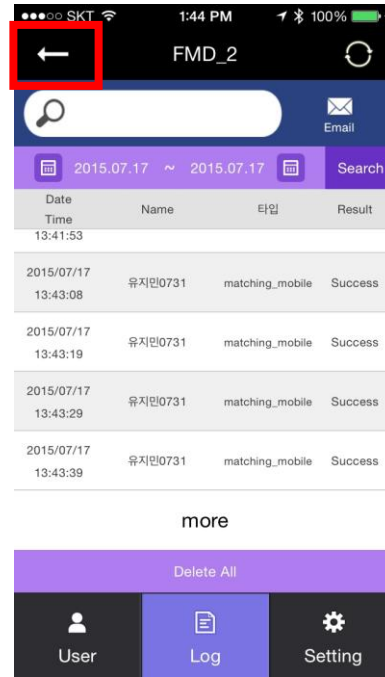
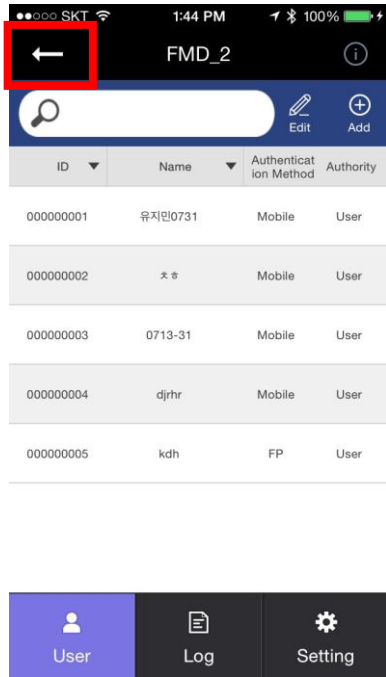
- ✓ Terminal Name: Terminal name is displayed.
- ✓ Bell Duration: Time required for the activation of the bell output after pressing the Bell key.
- ✓ Key Touch: Response time (unit: ms) of the Bell key when the Bell key of the terminal is connected to a doorbell. (0: Turn Off, 100 – 500: Setting Range)
- ✓ Led Blue: The blue LED is always turned on but turned off during the communication process.
- ✓ Buzzer: Terminal alarm
- ✓ Bluetooth LED: The blue LED of the terminal blinks during the communication process.
- ✓ LFD Level: Fake fingerprints are recognized to allow using the higher level of security application. If the level is higher, the time to authenticate fingerprints can be delayed.
- ✓ AccessCode: Manager password required for the login of the terminal. Only 16 bytes or less alphanumeric characters can be entered. (Default: 9999)
- ✓ Door Opening Status: It is set when connecting an external contact.
  - Open/close: When connecting a detection pin to detect the locking status of the lock.
  - Fire Open/close: When connecting the fire detection sensor
- ✓ Door Open interval: Can set the lock time (Default: 3).
- ✓ Card Format: Kind of the card to use

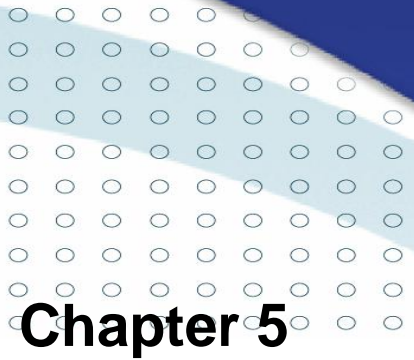
- ✓ Wiegand Output: This option is only used when a separate controller operating by wiegand pressure is mounted.
  - 26bit: User ID is set as four digits or less.
  - 34bit: User ID is set as seven digits or less.
- ✓ Wiegand Code: Unique three-digit integer specified differently for each terminal
- ✓ Lock Function: This function is divided into 485ID, LOCAL and BLC015/ LC010. 485ID is not supported yet.
- ✓ 1:N Level: 1:N level is set between 3 – 9 level.
  - 1:1 Level: 1:1 level is set between 1 – 9 level.
- ✓ Firmware Version: The firmware version of the terminal is displayed.
- ✓ Firmware Upgrade: The firmware downloaded in the Information page is upgraded.
- ✓ Initialize Settings: Deletes all data except logs and user information.
- ✓ Initialize: The terminal setting is initialized in factory setting.

※ **It is recommended to access the terminal after 30 – 60 seconds since the terminal is rebooted after saving the settings.**

## **4.5 Terminating the Connection**

To terminate the connection of the login user's Unis-B plus app, terminate the connection by pressing the [Back] button in each menu. The screen moves to the Terminal List page.





## **Chapter 5**

# **Terminal Setting and App Download**

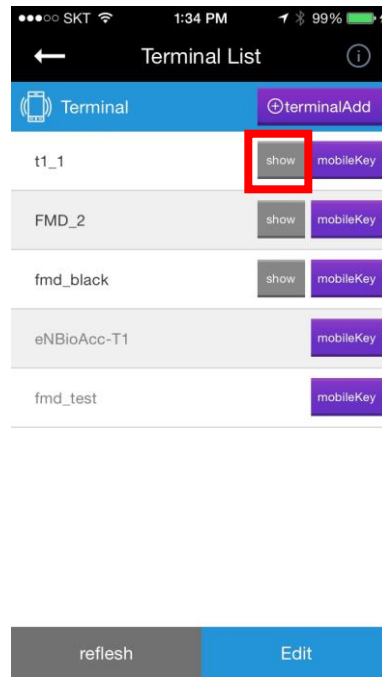
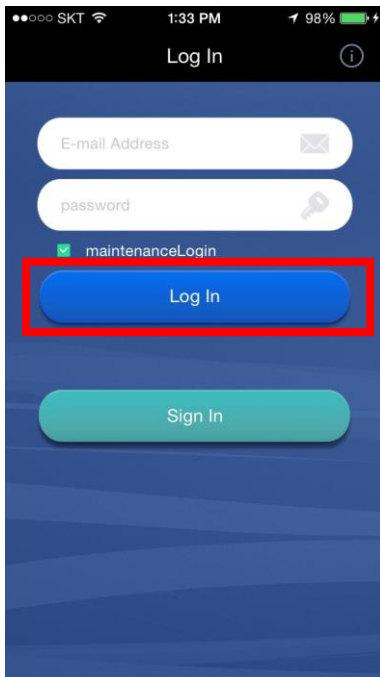


# Terminal Setting and App Download

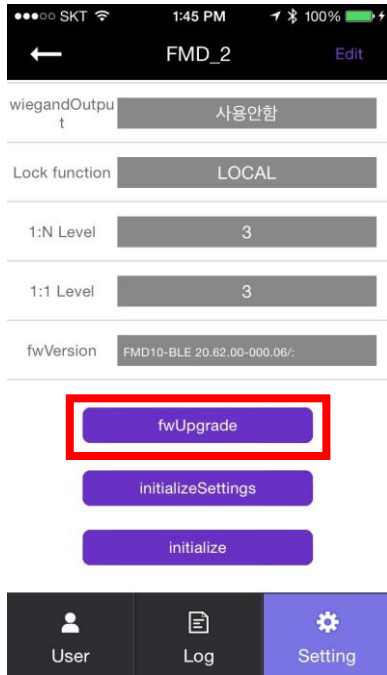
## 5.1 Firmware Upgrade

This function is used to download the new version of the firmware and then reflect to each terminal.

- ① After login, connect the terminal to be upgraded.

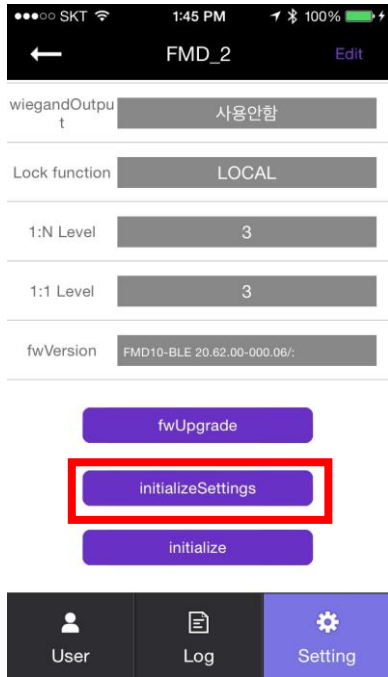


- ② To upgrade the terminal firmware, press the [fwUpgrade] button on the bottom of the setting page. If the firmware is successfully upgraded, the connection with the terminal is disconnected and the screen moves to the Terminal List page.



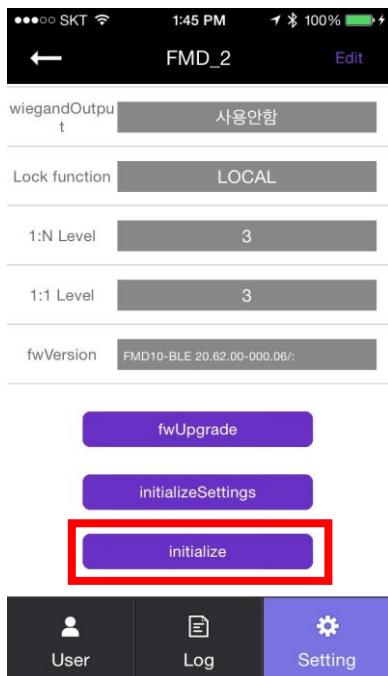
## 5.2 Initializing Setting

To initialize the setting, press the [initializesettings] button on the bottom of the setting page. If the setting is successfully initialized, the connection with the terminal is disconnected and the screen moves to the Terminal List page.



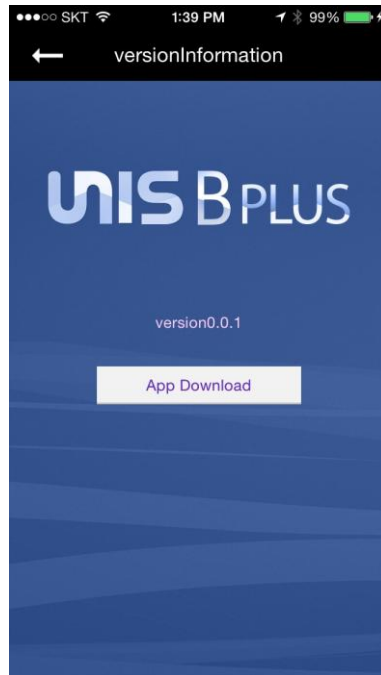
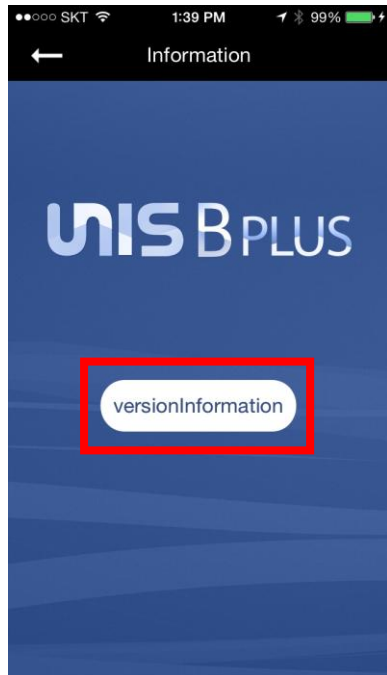
### 5.3 Factory Initialization

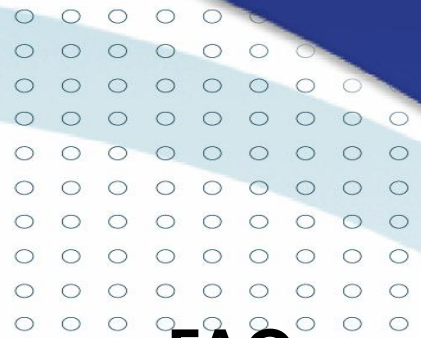
To initialize into factory setting, press the [Initialize] button on the bottom of the setting page. If the setting is successfully initialized into factory setting, the connection with the terminal is disconnected and the screen moves to the Terminal List page.



#### 5.4 downloading Unis-B plus App

This function is used to down the latest Unis-B plus app. To move to the Information page, select the [Information] button on the top right of each page. If you select the [versionInformation] button in the Information page, the screen moves to the versionInformation page. Check the app version in the versionInformation page. After that, if you press the [App download] button, AppStore for iOS or Play store for Android is automatically lonked. Install the app at each page.





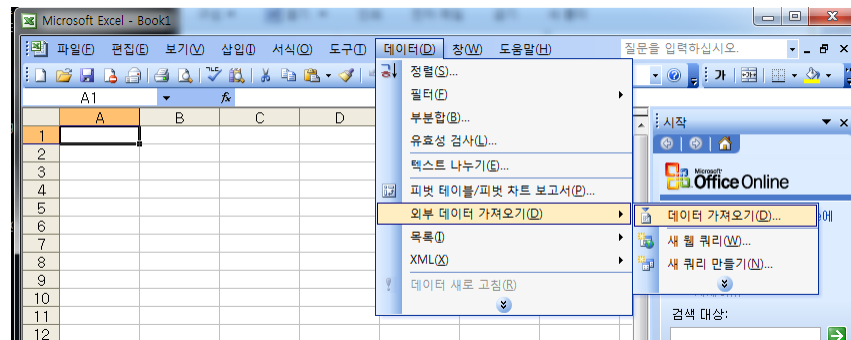
# FAQ

## FAQ

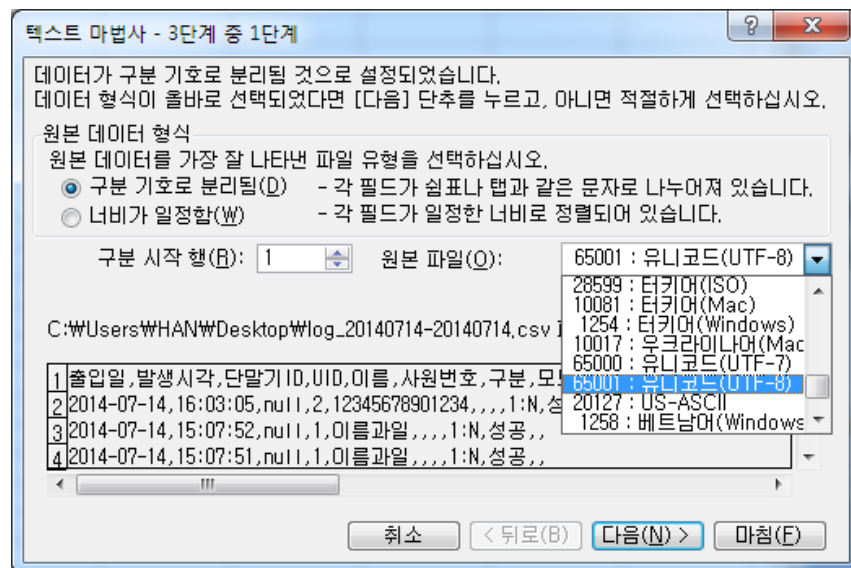
Symptoms	Solutions
The device is not searched in the terminal list.	<ul style="list-style-type: none"> <li>- Check the power of the terminal.</li> <li>- If another user is contacting, the device may not be displayed in the list. Check if another user is contacting the surrounding area.</li> </ul>
The connection is disconnected during the communication process.	<ul style="list-style-type: none"> <li>- If there is no input for a given time, Android OS may disconnect the connection arbitrarily.</li> <li>- The connection may be limited if any obstacle is within 10 m.</li> <li>- The connection may be disconnected by the interference according to the wireless environment.</li> </ul>

The log file transmitted by email is broken.	<p>- The document attached in an email is based on 'UTF-8'. Change the encoding method of the program to open the file.</p> <p>- MS Excel 2003 Basis</p>
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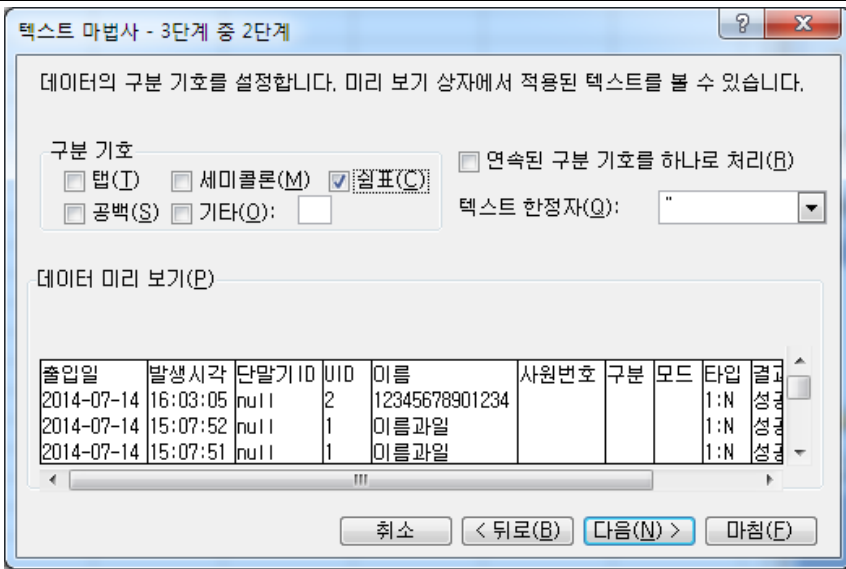
Select Data → Import Data → File



Select 'UTF-8' in the Original File



Select comma as the separator - Finish

	
<p>I cannot identify the current device among multiple devices.</p>	<ul style="list-style-type: none"> <li>- The Bluetooth LED is set to “On” in factory setting.</li> <li>- When connecting a terminal, the LED of the current terminal blinks in blue. After that, the terminals are identified by changing the name.</li> </ul>
<p>The terminal is not connected.</p>	<ul style="list-style-type: none"> <li>- The terminal remains in the list but does not exist in practice or another user may be using the terminal.</li> <li>- It may be difficult to connect the terminal in the wireless environment highly obstructed or interfered or with long distance. In such case, keep the distance from the terminal within 10 m or avoid the obstacles between two devices to the maximum extent.</li> <li>- (When the Bluetooth LED is turned on) The connection is not allowed when the terminal LED blinks in blue because the communication between terminal and app is in use. Re-try the connection after the LED is turned off.</li> </ul>

### Guide for Optimal Bluetooth Reception Ratio

#### - Characteristics of Bluetooth Signal

To receive the Bluetooth signal normally, the reflector (e.g., wall or ceiling) that can reflect the signal or 10 m straight visibility must be guaranteed. Basically, the Bluetooth signal cannot pass through water. If human body or fishbowl is surrounding the area, the reception ratio can be reduced because the signal cannot pass through the obstacle.

#### - Bluetooth Reception Ratio

The use range of Bluetooth varies according to the signal transmission range of smart phone, surroundings and block of signal by obstacles. Therefore, the problems related to reception sensitivity are not affected by this device but by user's device and surrounding environment.