



E-Smart Ultra+ Client Installation User Manual



Passtech Co., Ltd.

Document Version: 2.4

Last Revised Date: November 12, 2020

Copyright © 2017 Passtech Inc. All rights reserved. You are strictly prohibited to copy, disclose, distribute, or use this document in part or as a whole for any purposes other than those for which this document is disclosed. This document is copyrighted and contains confidential information and other intellectual property rights of Passtech Inc. Any unauthorized use, copy, disclosure or distribution constitutes infringement of Passtech's intellectual property rights.

Passtech Co., Ltd. reserves the right to make changes to its applications or services or to discontinue any application or service at any time without notice. Passtech provides customer assistance in various technical areas, but does not have full access to data concerning the use and applications of customer's products.

Therefore, Passtech assumes no liability and is not responsible for customer applications or software design or performance relating to systems or applications incorporating Passtech products. In addition, Passtech assumes no liability and is not responsible for infringement of patents and/or any other intellectual or industrial property rights of third parties, which may result from assistance provided by Passtech.

Composition of the information in this manual has been done to the best of our knowledge. Passtech does not guarantee the correctness and completeness of the details given in this manual and may not be held liable for damages ensuing from incorrect or incomplete information. Since, despite all our efforts, errors may not be completely avoided, we are always grateful for your useful tips.

We have our development center in South Korea to provide technical support. For any technical assistance can contact our technical support team as below;

Tel.: +82 31-743-7277

E-mail: passtech@esmartlock.com

Revision History

- November 10, 2017 (ver. 1.0): First
- November 2, 2018 (ver. 1.1): Released English version
- November 7, 2018 (ver. 1.2): Added 'Pre-Assigned' function
- June 27, 2019 (ver. 1.4): Added Server Program part
- October 24, 2019 (ver. 1.5): Reflected ver. 2.0.0.0 modified
- February 4, 2020 (ver. 1.6): Reflected ver. 2.0.0.4 modified
- February 12, 2020 (ver. 1.7): Added 'Smart Code' function
- March 30, 2020 (ver. 1.8): Released ver. 3.0.0.0.
- May 27, 2020 (ver. 1.9): Reflected ver. 3.0.0.1 modified
- July 14, 2020 (ver. 2.0): Reflected ver. 3.0.0.3
- September 22, 2020 (ver. 2.1): vc_redist 2019 installation and CSN mode manual
- September 25, 2020 (ver. 2.2): CSN config setting update and revised.
- October 19, 2020 (ver. 2.3): Config setting details revised.
- November 12, 2020 (ver. 2.4): AP hardware setting added.

Contents

1. System Specifications and Preparation	8
1) System Specifications.....	8
2) Preparation	8
(1) Download and install '.NET Framework' (version 4.6 or higher)	8
(2) Download and install 'Microsoft Redistributable VCREDIST'	10
(3) Install DE-620 device driver	12
(4) Download 'MSSQL 2014 Express' database.....	16
(5) Pre-setting for AP(Hardware)	17
2. Ultra+ Server & Client Installation and Configuration Settings.....	18
1) Server Installation	18
2) Client Installation	22
3) Server Configuration Setting	26
4) Client MSSQL DB Connection Setting.....	31
3. Login and Main Screen	35
1) Login Screen	35
(1) Connect SQL DB.....	36
(2) Read Key Card.....	36
2) Main Screen	37
4. Account.....	38
1) Menu List.....	38
2) Main Item Description	38
3) Account Management	39
(1) Issuer	39
(2) Building	40
(3) Group	41
(4) Lock.....	43

(5)	AP	46
(6)	Staff	52
(7)	Lock Status	53
(8)	Membership Level	54
(9)	Blacklist	55
5.	Monitoring	56
1)	Screen Description	56
2)	Full Monitoring	57
3)	Floor Monitoring	58
4)	Basic Control Commands	59
(1)	When you right-click on wallpaper.	59
(2)	When you right-click on lock icon	59
5)	Lock Control	61
(1)	Open/Close (Each)	62
(2)	Open/Close (All)	63
(3)	Lock Blocking	64
(4)	Clear User Info	65
6.	Membership	66
1)	Menu List	66
2)	Main Item Description	66
3)	Membership Management	67
(1)	Membership List	67
(2)	Card Issue (w/o details)	71
(3)	Check Card information	73
(4)	Maintenance	74
(5)	Audit Trail	79
(6)	Lock Info	80
(7)	Member Import/Export	82

7. Report.....	84
1) Menu List.....	84
2) Main Item Description.....	84
3) Inquiry Report	85
(1) Card Issuance.....	85
(2) Audit Trail.....	87
(3) Lock Info	90
(4) Lock Usage.....	92
(5) Lock Current Status.....	94
8. Settings.....	96
1) Menu List.....	96
2) Configuration.....	96
3) Lock Settings.....	99
(1) Operation Settings	99
(2) Site ID Settings	100
(3) Time Based Operation.....	101
(4) Online Settings.....	102
(5) ETC.....	103
(6) Send Lock Settings.....	104
4) Change User Information.....	105
5) Database Backup.....	107
9. Custom Layout	108
1) Menu List.....	108
(1) File	108
(2) Edit.....	109
(3) Draw.....	110
(4) Layout.....	111
(5) Help.....	112
2) Basic Functions	112

(1)	Draw locker icon one by one.....	112
(2)	Draw locker icon at once by using Layout Wizard	116
(3)	Draw AP icon	118
(4)	Align locker icons	120
(5)	Edit locker icon information	125
(6)	Edit panel page.....	127
(7)	Insert background image	128
(8)	Save the file.....	132
10.	Smart Code & Mobile Key	133
1)	What is Smart Code & Mobile Key?	133
2)	Smart Code Menu List.....	133
3)	Configuration.....	134
4)	Generate Smart Code	136
(1)	Generate Smart Code via E-Smart Ultra+	136
(2)	Generate Mobile Key via E-Smart Cloud Server.....	139
(3)	Re-register User.....	142
5)	How it works.....	142

1. System Specifications and Preparation

1) System Specifications

System Requirement	
OS	Windows 7, 8, 10 32bit/64bit
CPU	Intel(R) Core (TM) i5 or higher
RAM	8.00GB or higher

2) Preparation

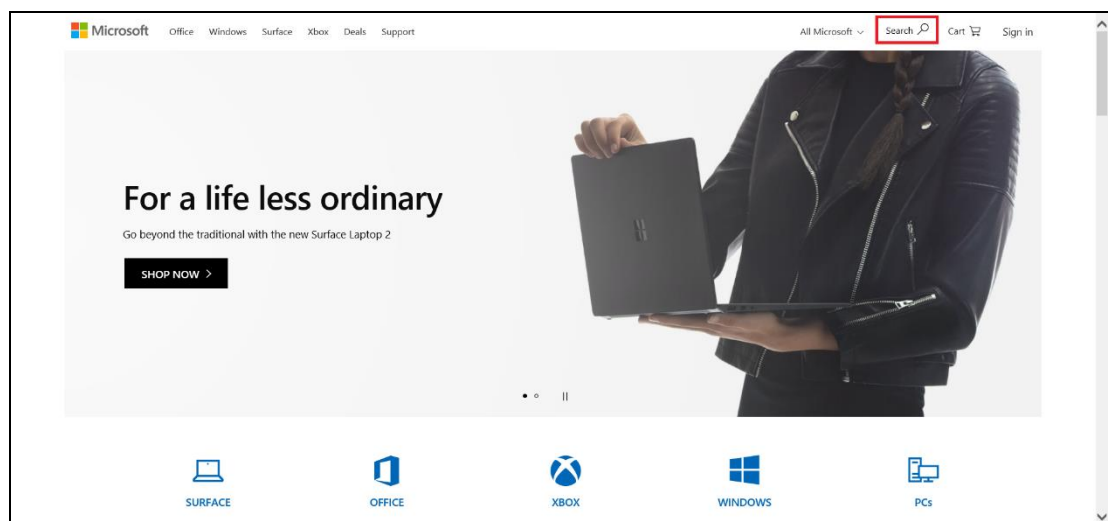
(1) Download and install '.NET Framework' (version 4.6 or higher)

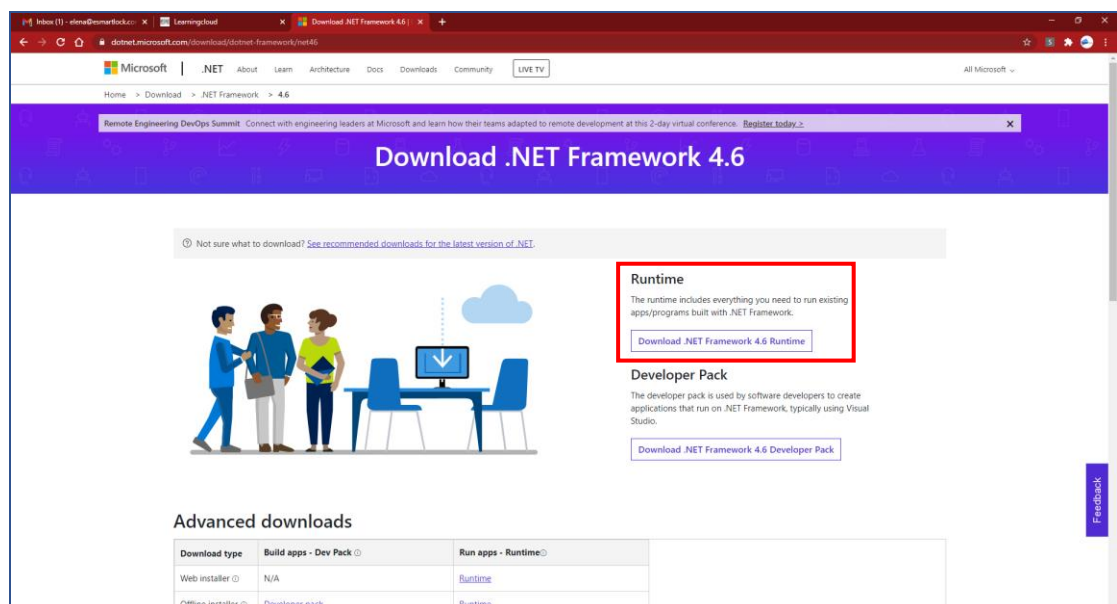
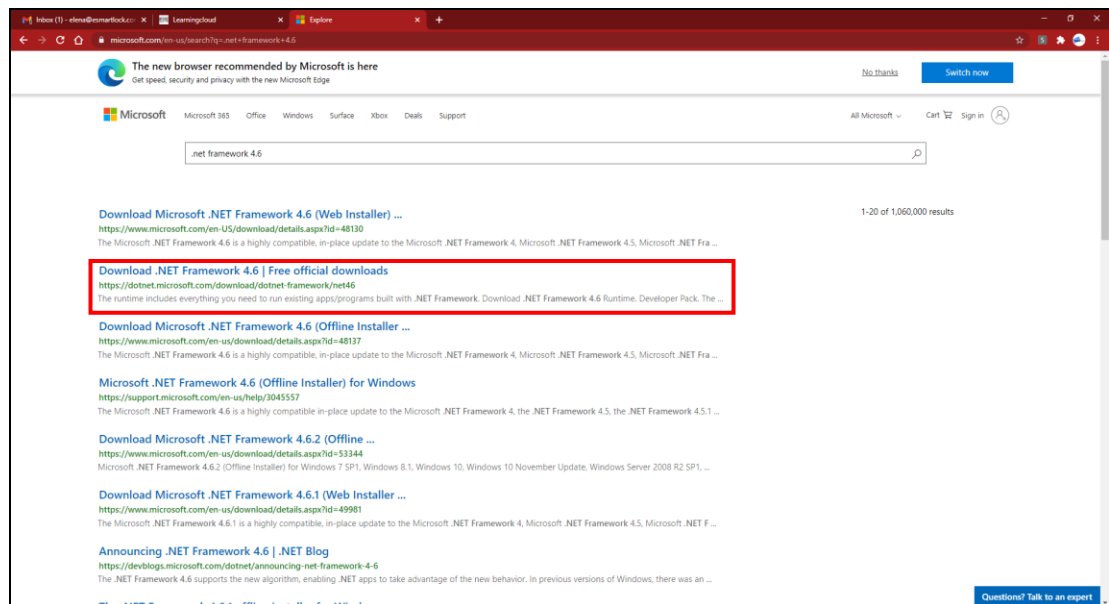
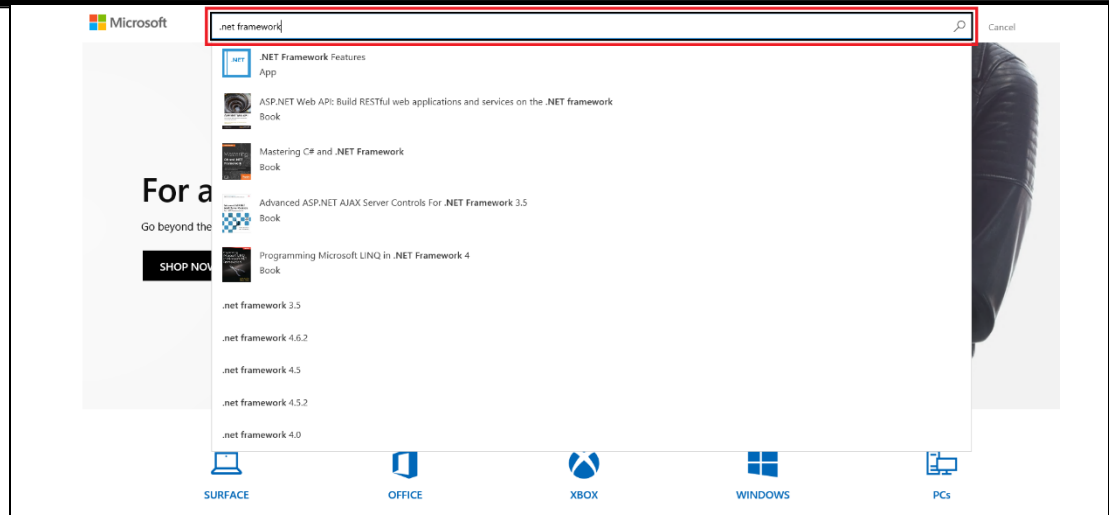
- Click 'DotNet_tools driver' download link from the software installation manual provided,



or click the link below and search '.NET Framework' to download.

<https://www.microsoft.com/en-us>

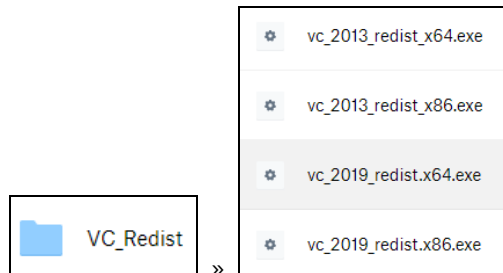




(2) Download and install 'Microsoft Redistributable VCREDIST'

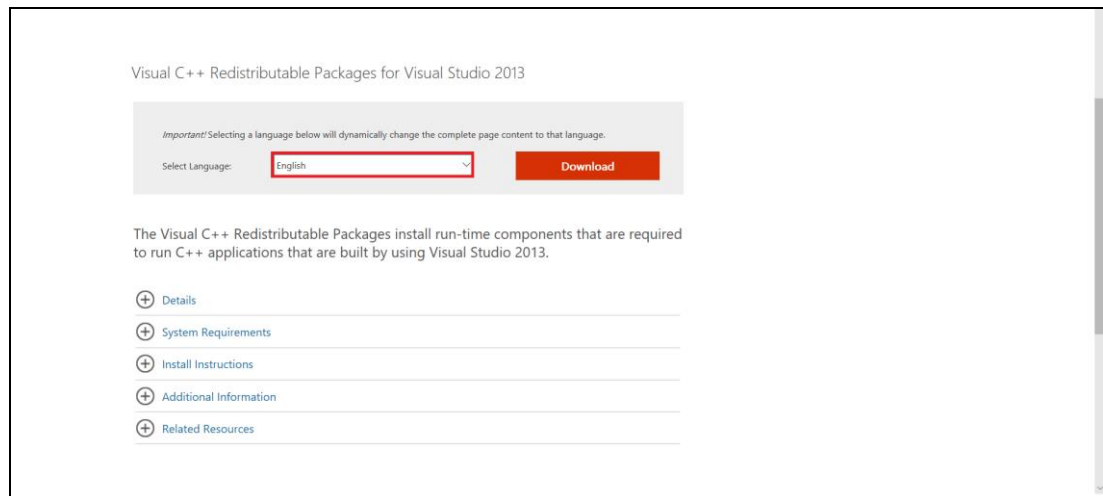
- ① Click all 'vc_2013_redist_x64', 'vc_2013_redist_x86', 'vc_2019_redist.x64', 'vc_2019_redist_x86' download links below,

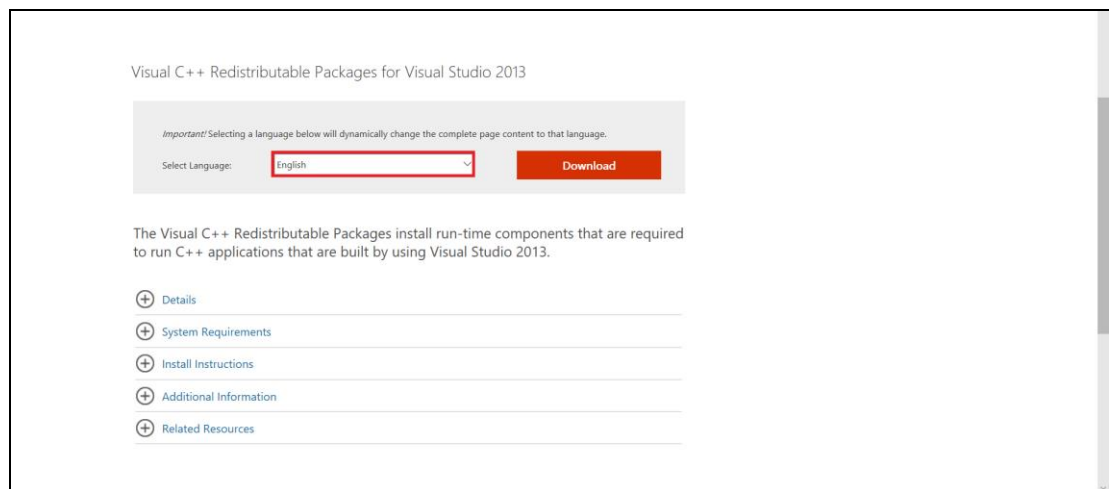
<https://www.dropbox.com/sh/jfhj2si9vym4h2m/AABQUhgL61JrIN6tc7HmOoHPa?dl=0>



or click the link below and download 'Visual C++ Redistributable Packages for Visual Studio 2013' and 'Visual C++ 2019'

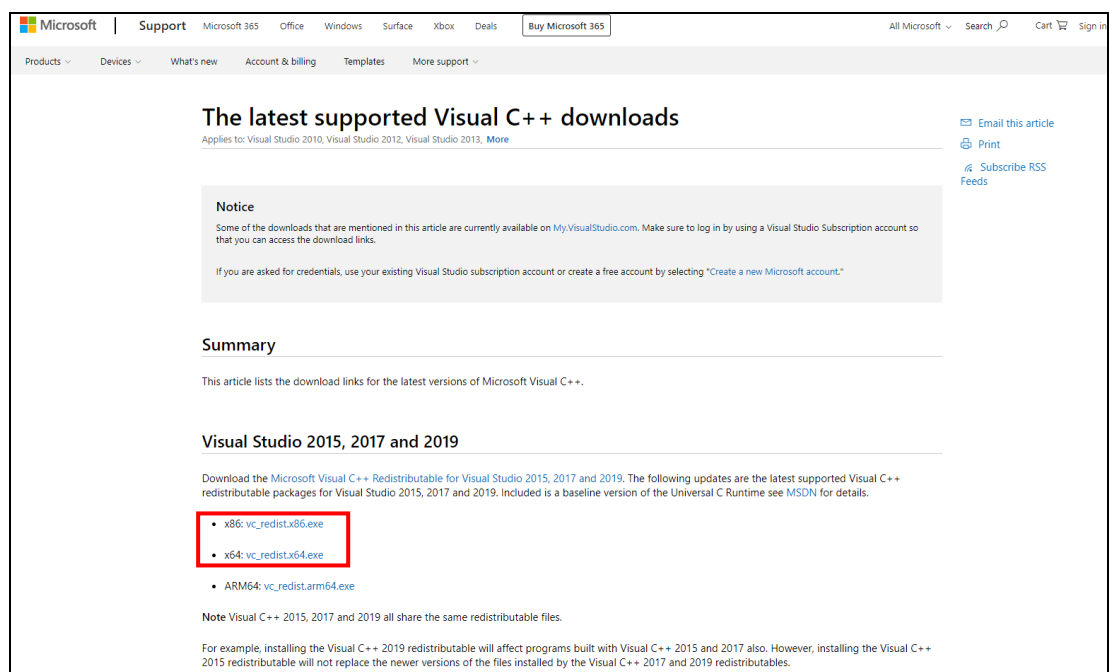
<https://www.microsoft.com/en-us/download/details.aspx?id=40784> – vc redist 2013



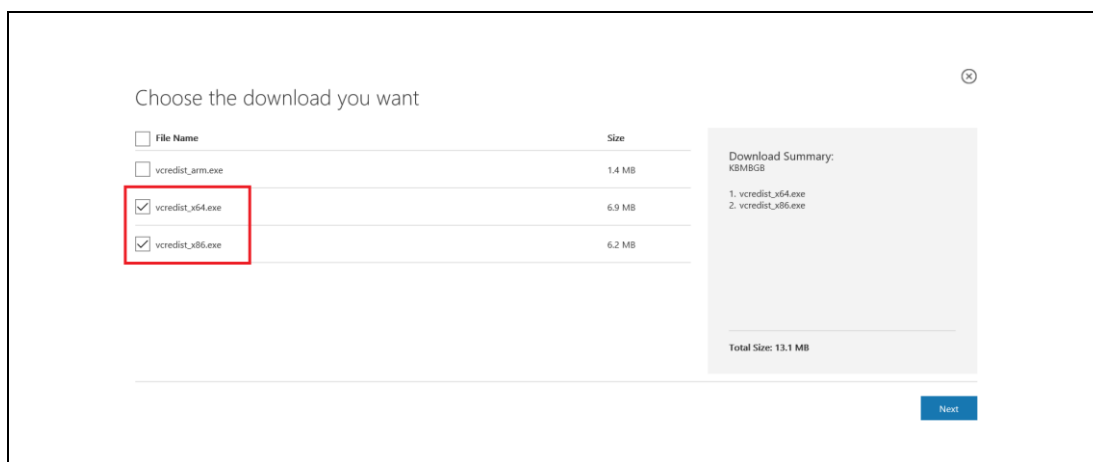


<https://support.microsoft.com/en-us/help/2977003/the-latest-supported-visual-c-downloads>

- vc redist 2019(this contains 2015, 2017, 2019)



- ② Remember that you must download both x64 and x86 for both 2013 and 2019.

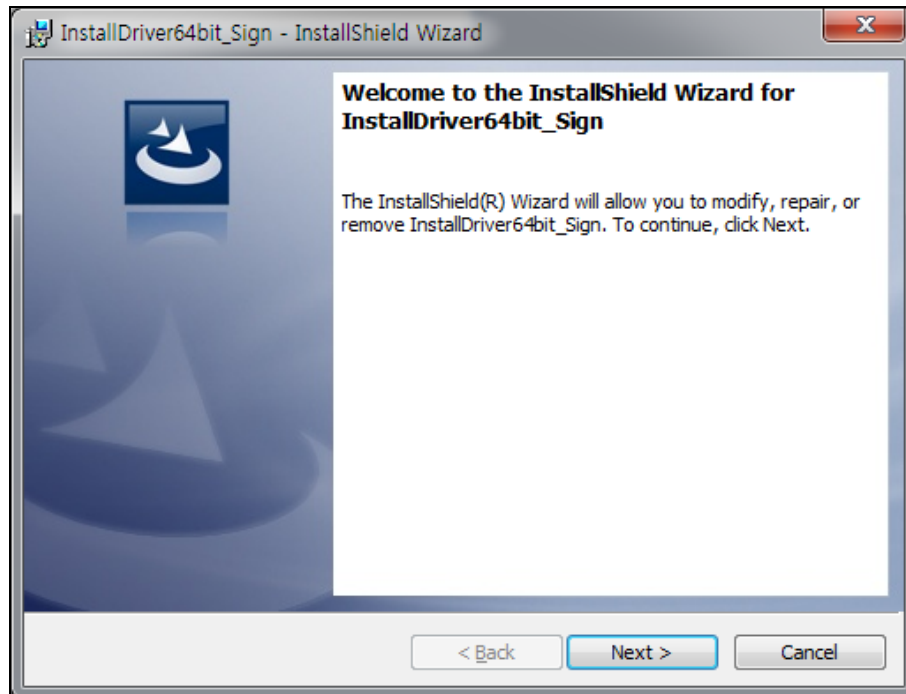


(3) Install DE-620 device driver

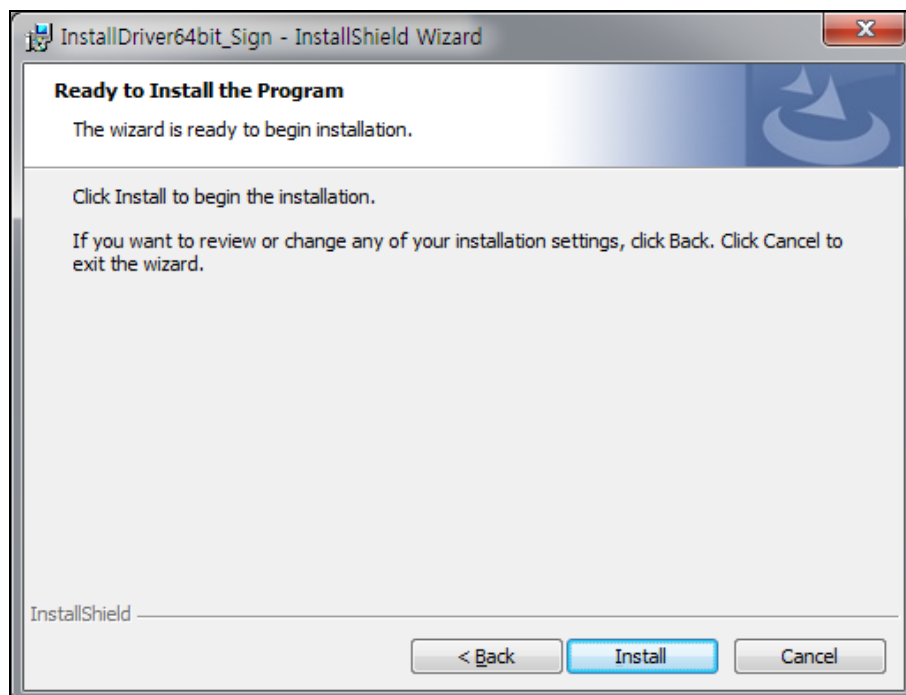
- ① Click 'DE620(Card reader) driver' download link from the installation manual provided.
- ② Install a 32bit driver or 64bit driver according to the specifications of your computer and Window OS.



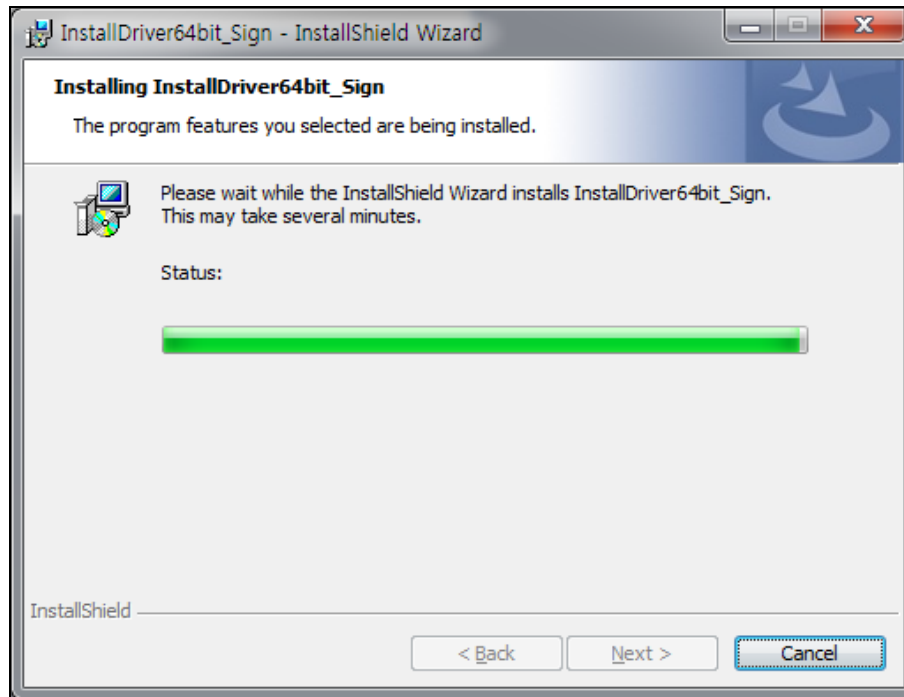
- ③ Click 'Next' to continue the installation.



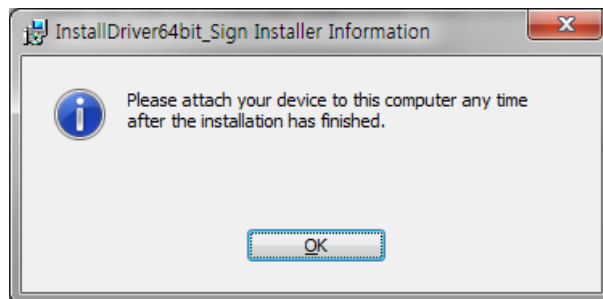
- ④ Click 'Install' to begin the installation.



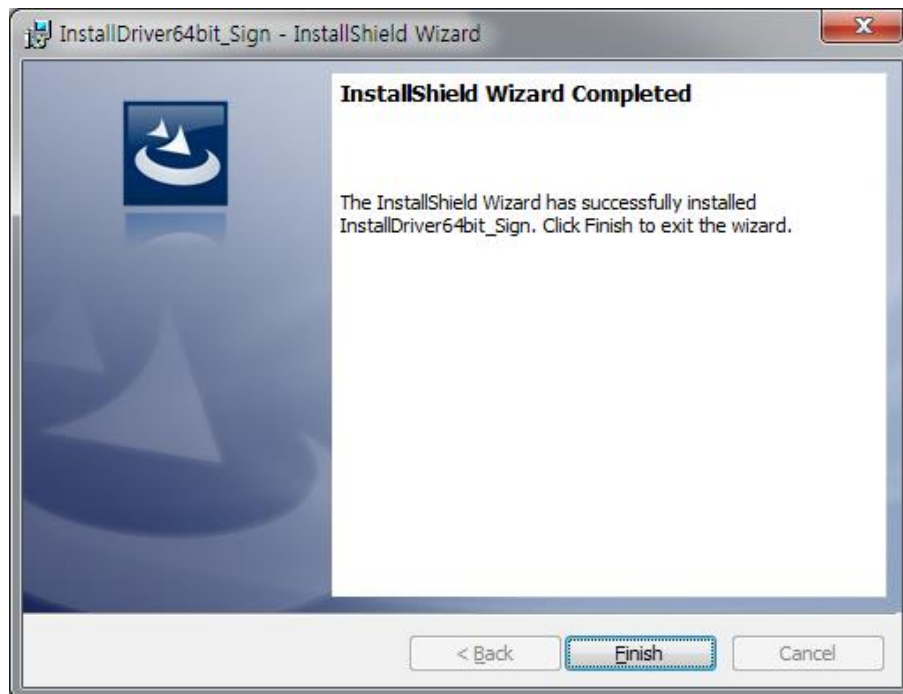
- ⑤ Wait while the driver is installed.



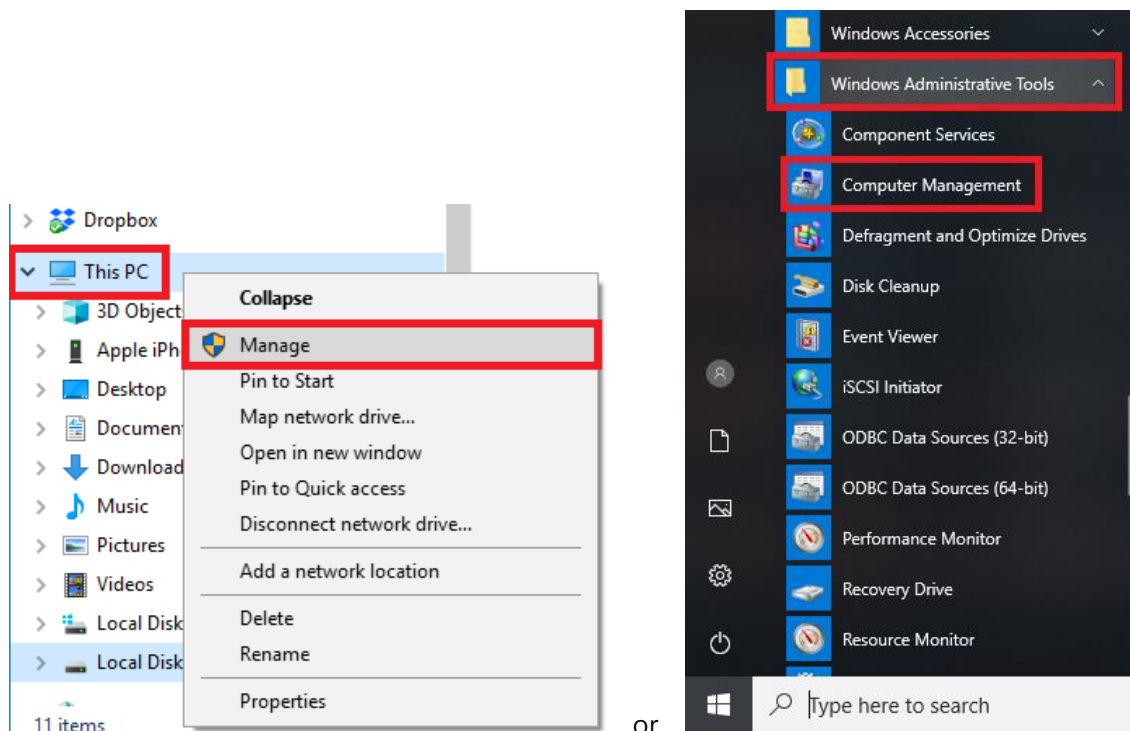
- ⑥ Click 'OK' to complete the installation.



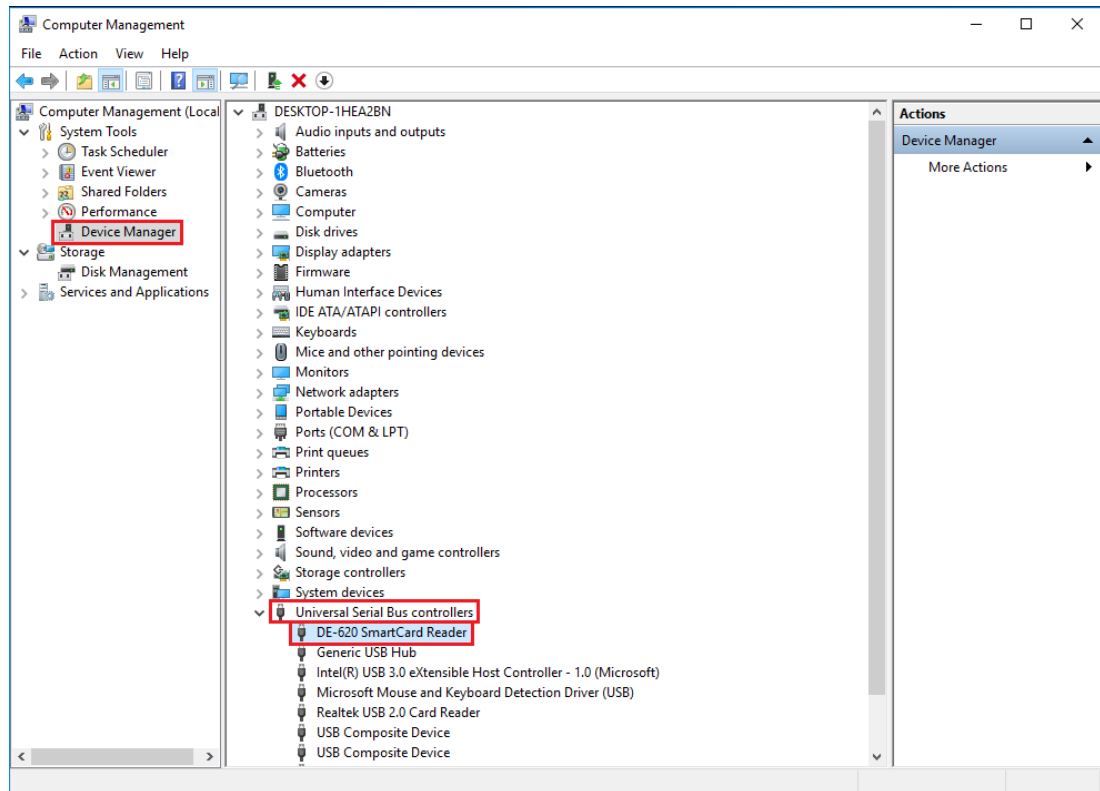
- ⑦ Click 'Finish' to close the window.



- ⑧ Open 'Computer Management' through 'This PC' or 'Start menu'.



- ⑨ Select 'Device Manager' – 'Universal Serial Bus Controller', and check if you have 'DE-620 SmartCard Reader' or 'DE-620L SmartCard Reader'.



(4) Download 'MSSQL 2014 Express' database

- ① Click the link below to download the manual of downloading server DB.
https://www.dropbox.com/s/kxic4qtqe3uged6/Passtech_Locker_Server_DB_Manual_V1.1_eng_190628.pdf?dl=0
- ② 'DB table' must be prepared. You can download it through the software installation manual.

(5) Pre-setting for AP(Hardware)

- ① Turn the AP200 to see the backside of it before installing it on the wall or ceiling.
- ② There are switches you can turn on or off. You will only control the number 1 dip switch.
- ③ Locker locks are always on for number 1 dip switch. The rest of them should be off.

(See below picture figure 1)



(Figure 1. Locker lock AP setting)

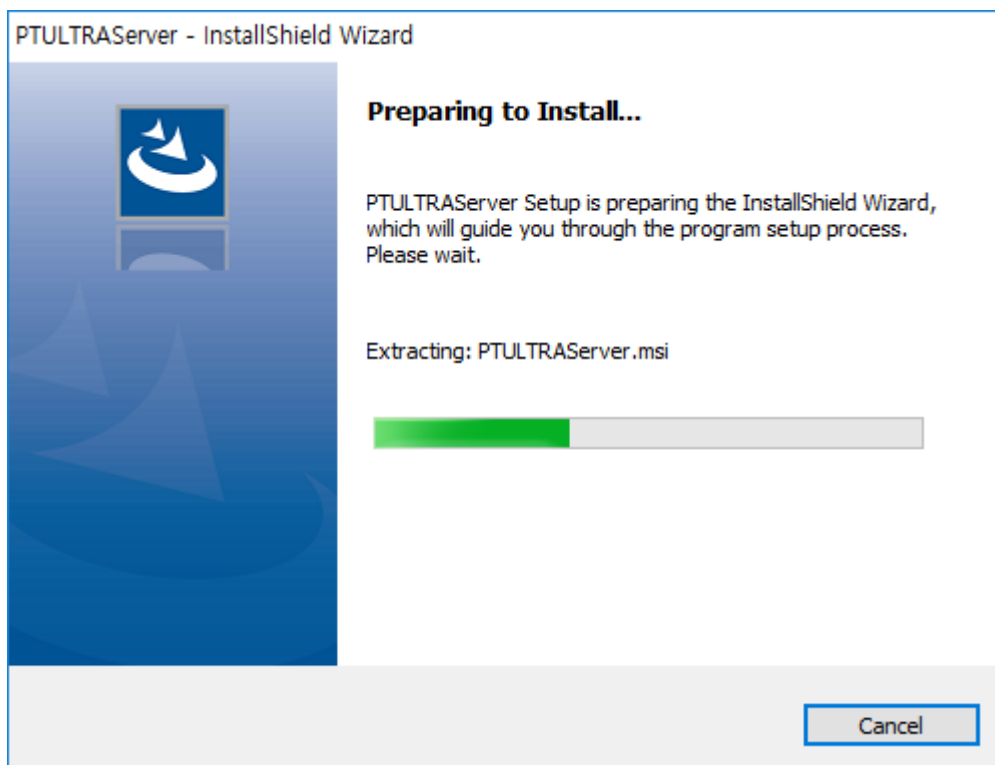
2. Ultra+ Server & Client Installation and Configuration Settings

1) Server Installation

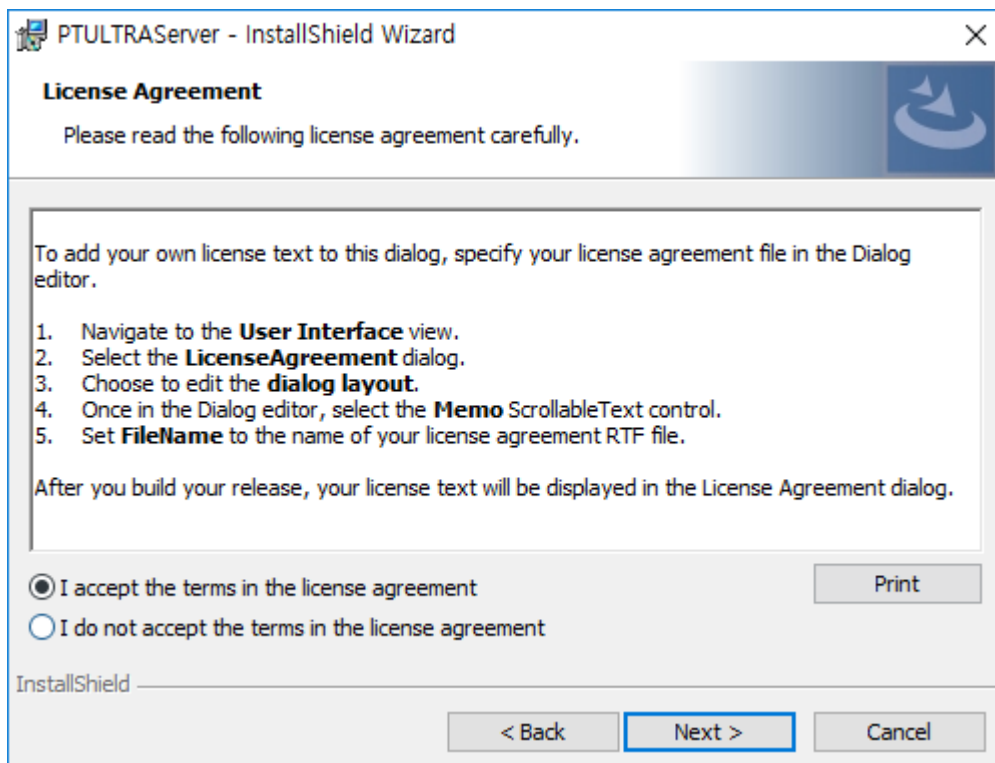
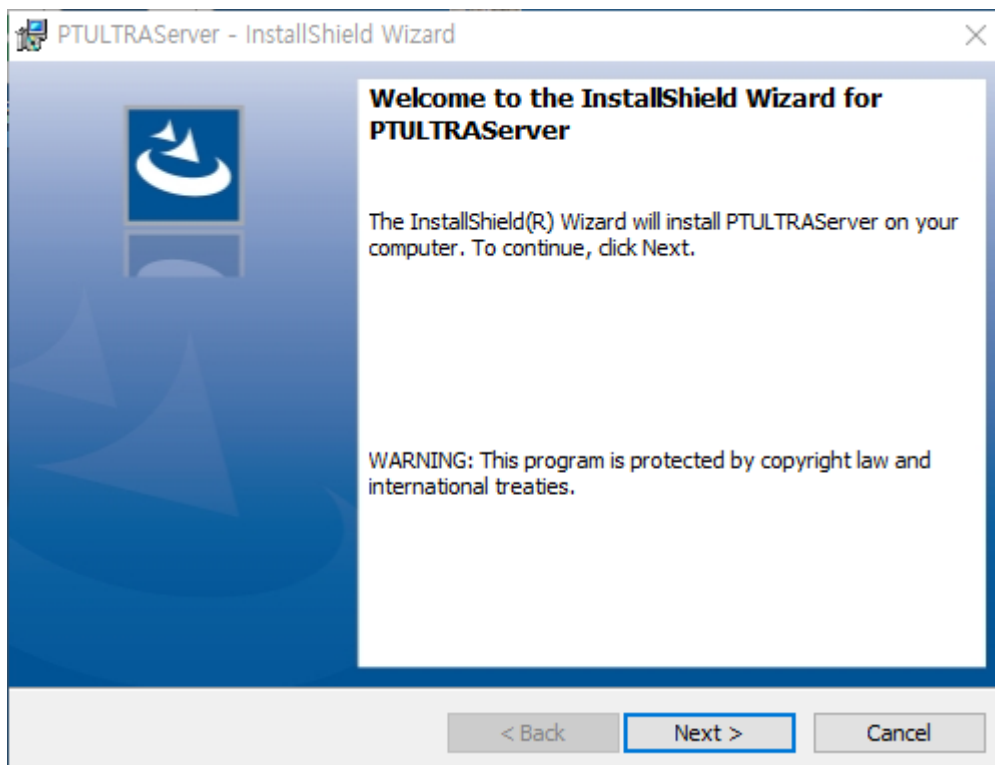
- ① Click the program download link from the software installation manual provided, and download 'NEW_ULTRA_Server2.0' to install it.

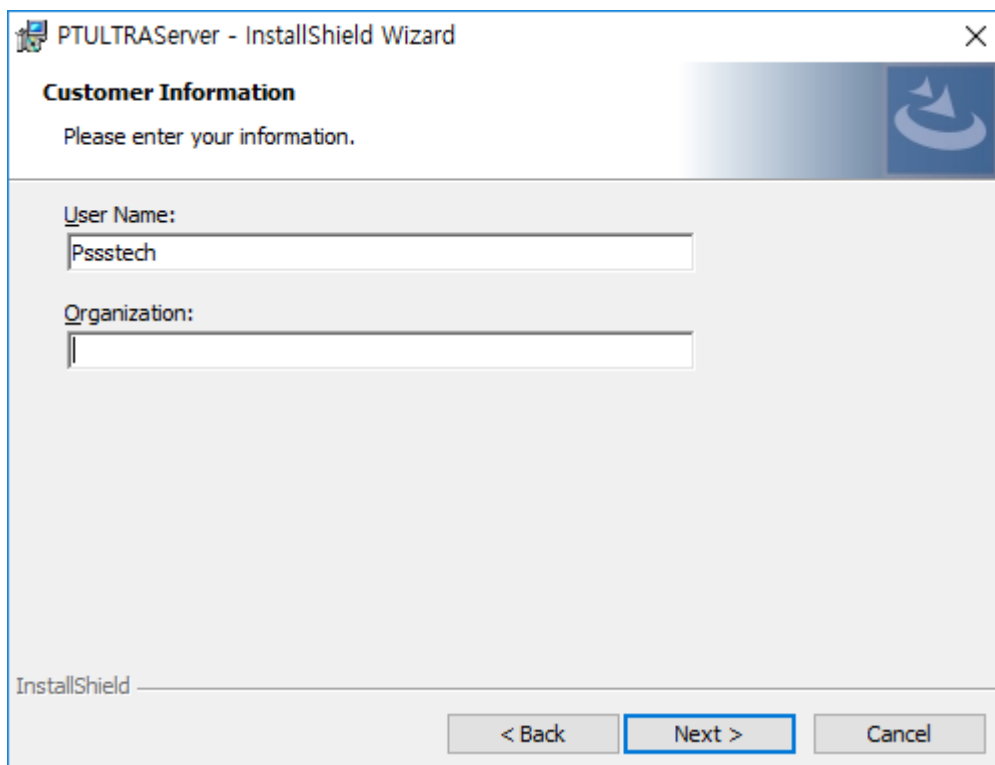


- ② Click Setup file to install it.



- ③ Keep clicking 'Next' button to continue the installation.





PTULTRAServer - InstallShield Wizard

Customer Information

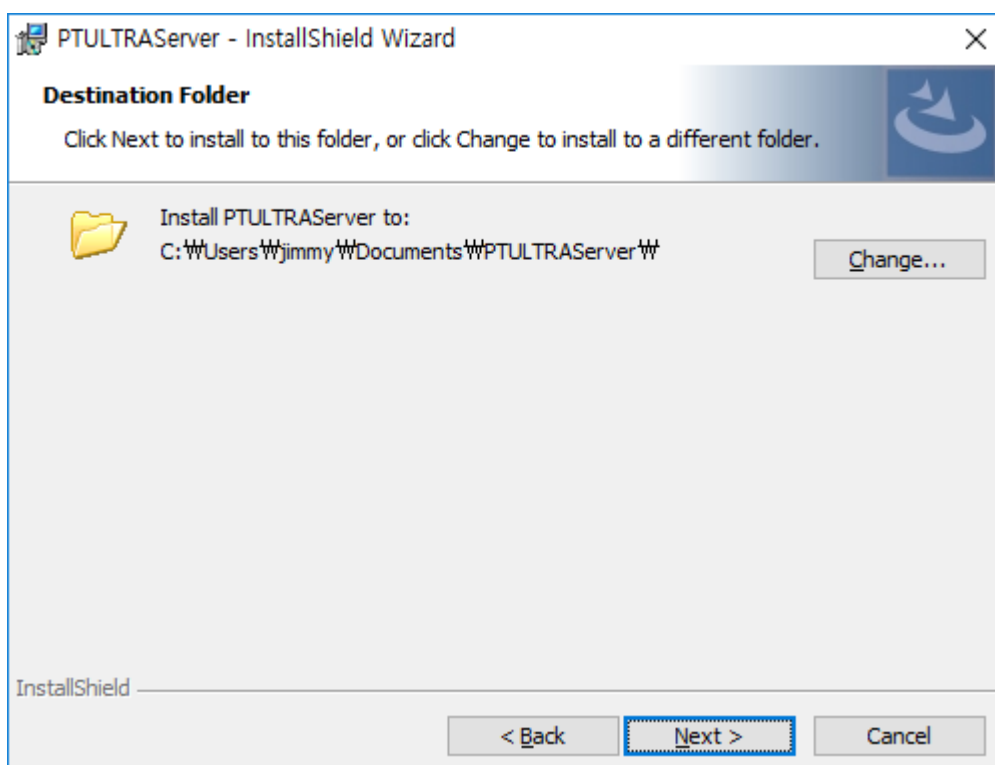
Please enter your information.

User Name:
Pssstech

Organization:

InstallShield


< Back Next > Cancel



PTULTRAServer - InstallShield Wizard

Destination Folder

Click Next to install to this folder, or click Change to install to a different folder.

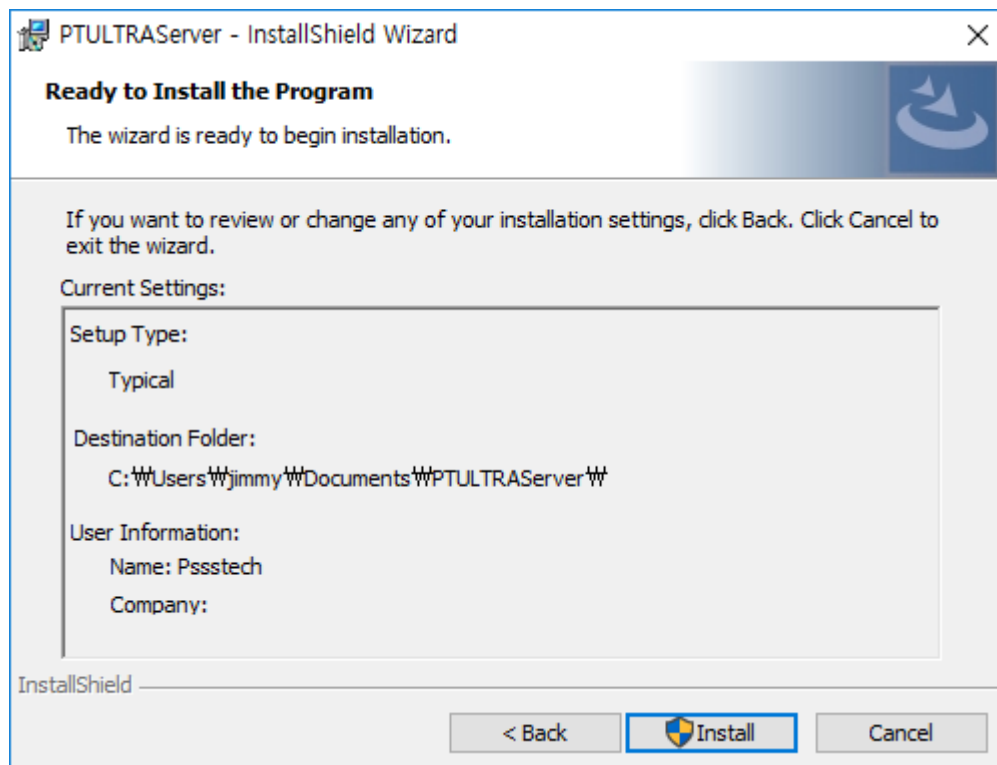
 Install PTULTRAServer to:
C:\Users\Jimmy\Documents\PTULTRAServer

Change...

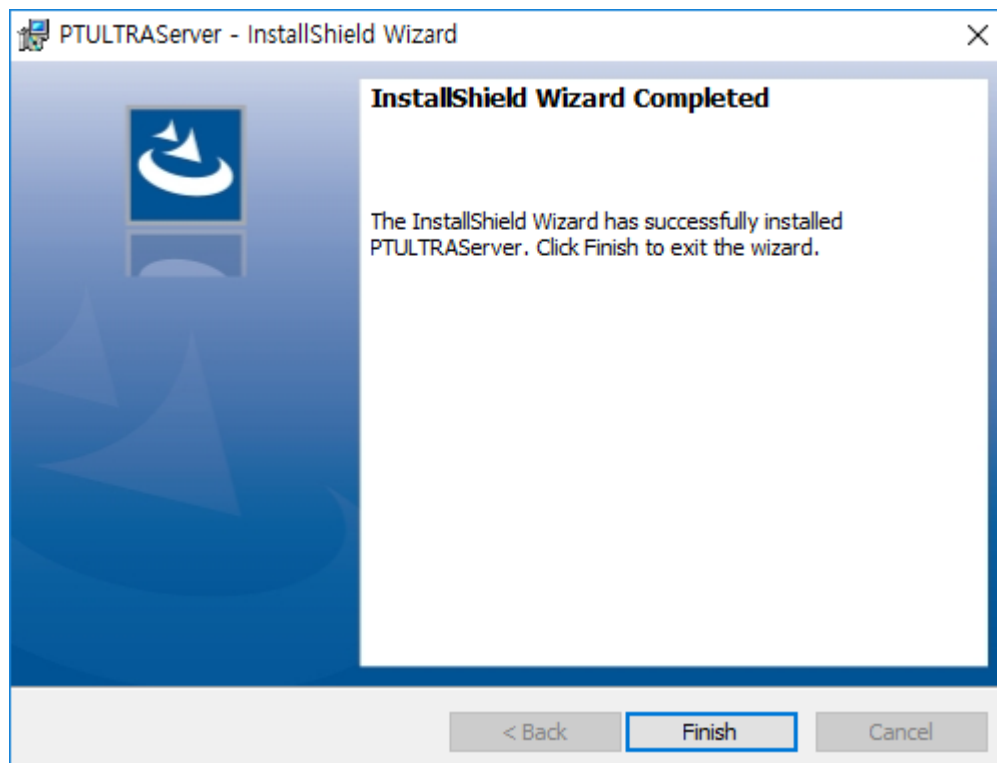
InstallShield

< Back Next > Cancel

- ④ Click 'Install' button to proceed.

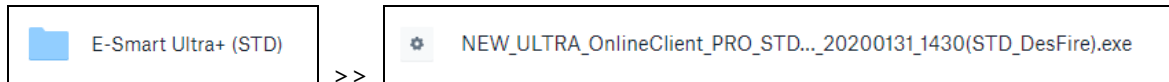


- ⑤ Click 'Finish' button to complete the installation.

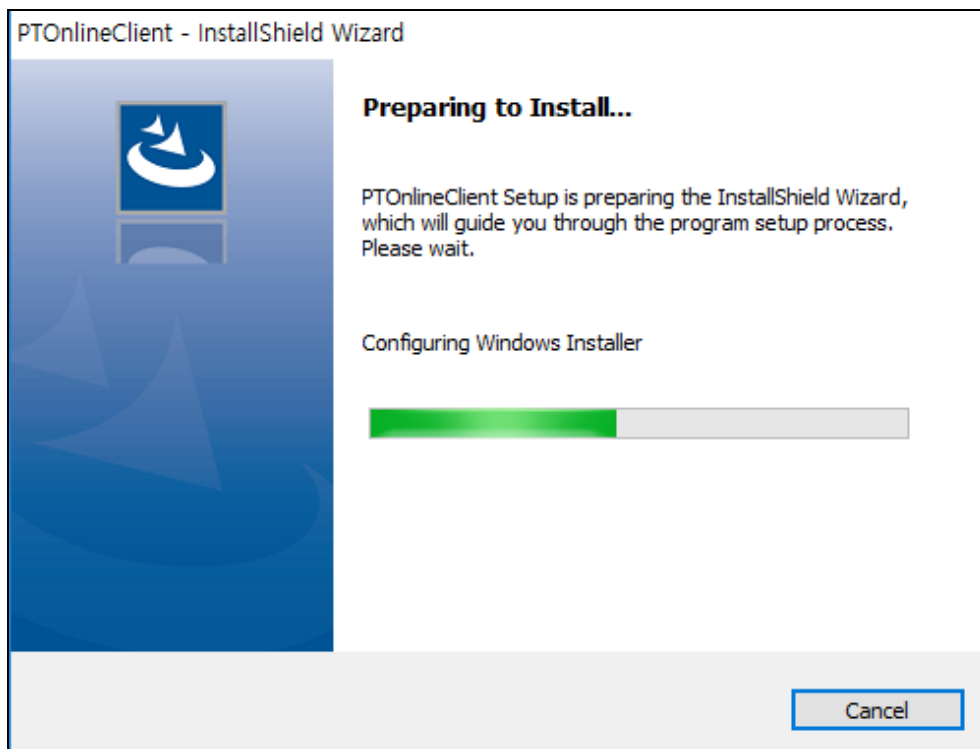


2) Client Installation

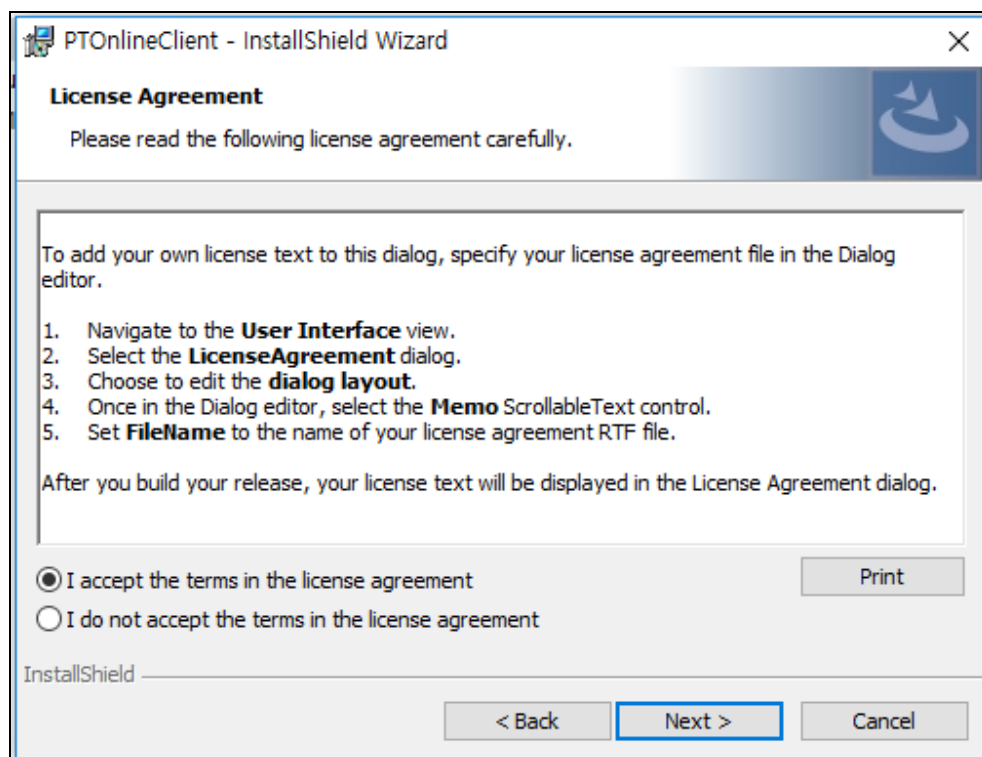
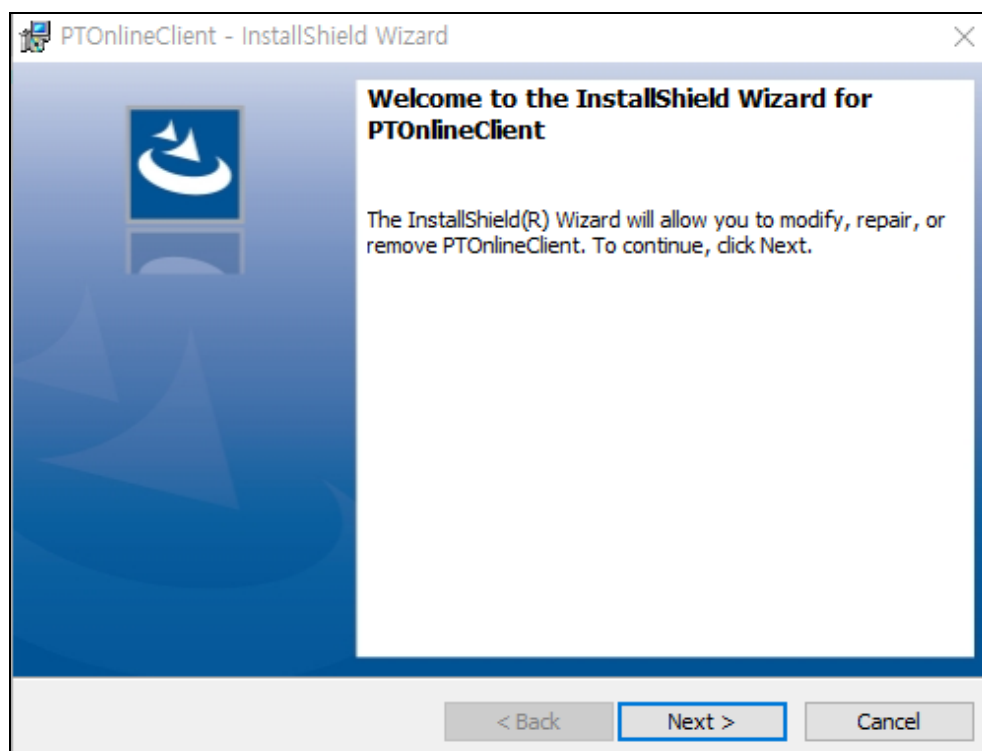
- ① Click the program download link from the software installation manual provided, and download 'OnlineClient' to install it.
Select one between Standard version and PIN version depending on your operation scenario.

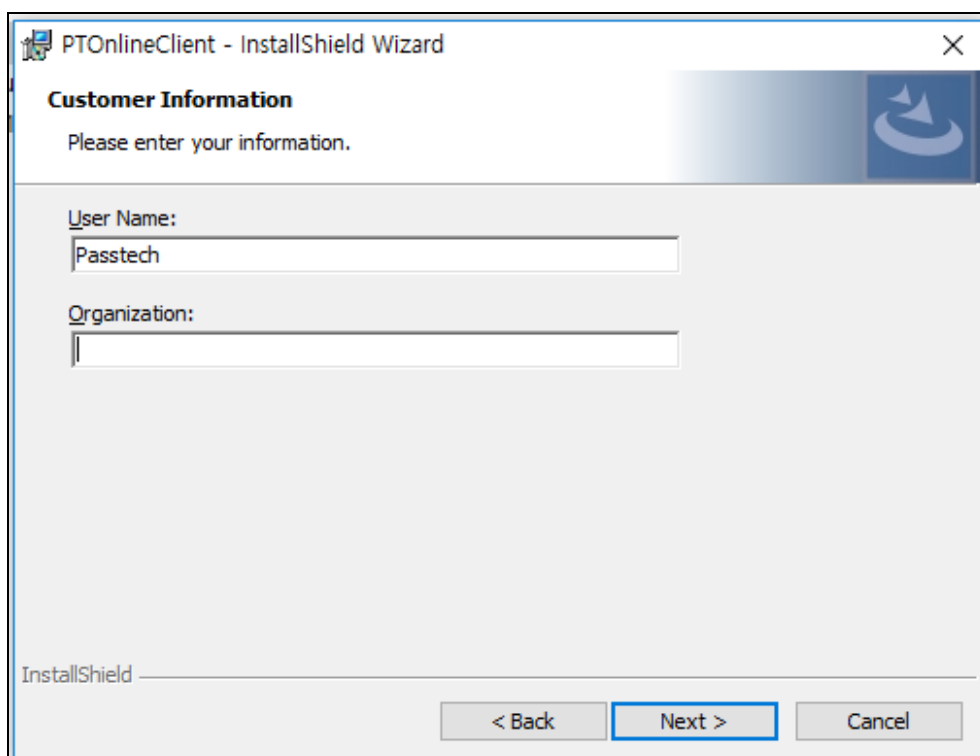


- ② Click Setup file to install it.



- ③ Keep clicking 'Next' button to continue the installation.





PTOnlineClient - InstallShield Wizard

Customer Information

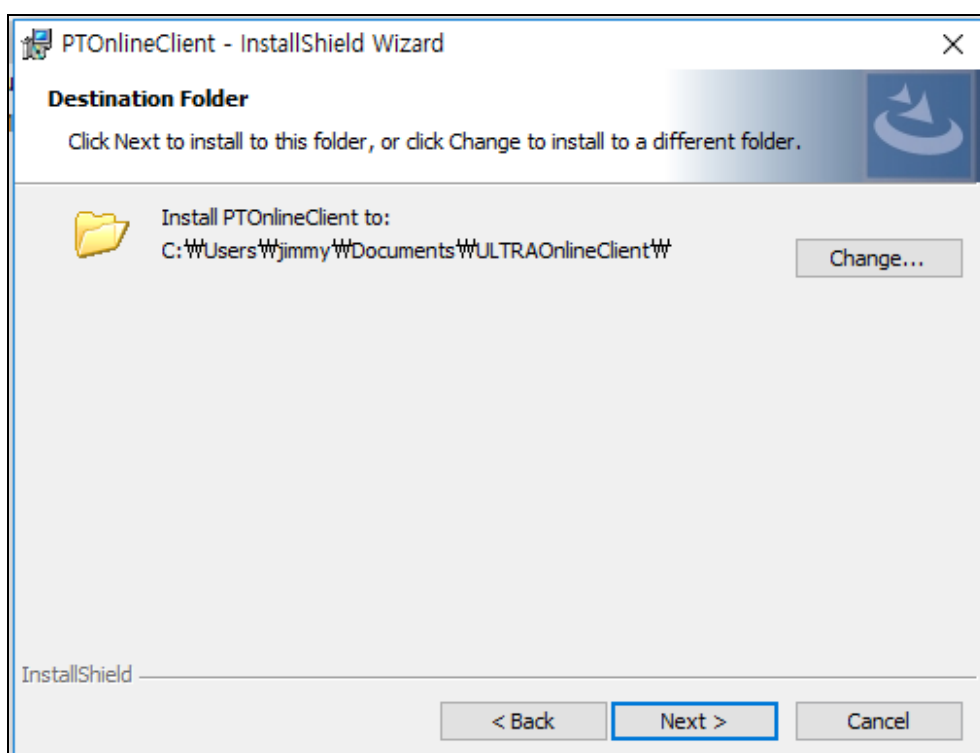
Please enter your information.

User Name:

Organization:

InstallShield


< Back Next > Cancel



PTOnlineClient - InstallShield Wizard

Destination Folder

Click Next to install to this folder, or click Change to install to a different folder.

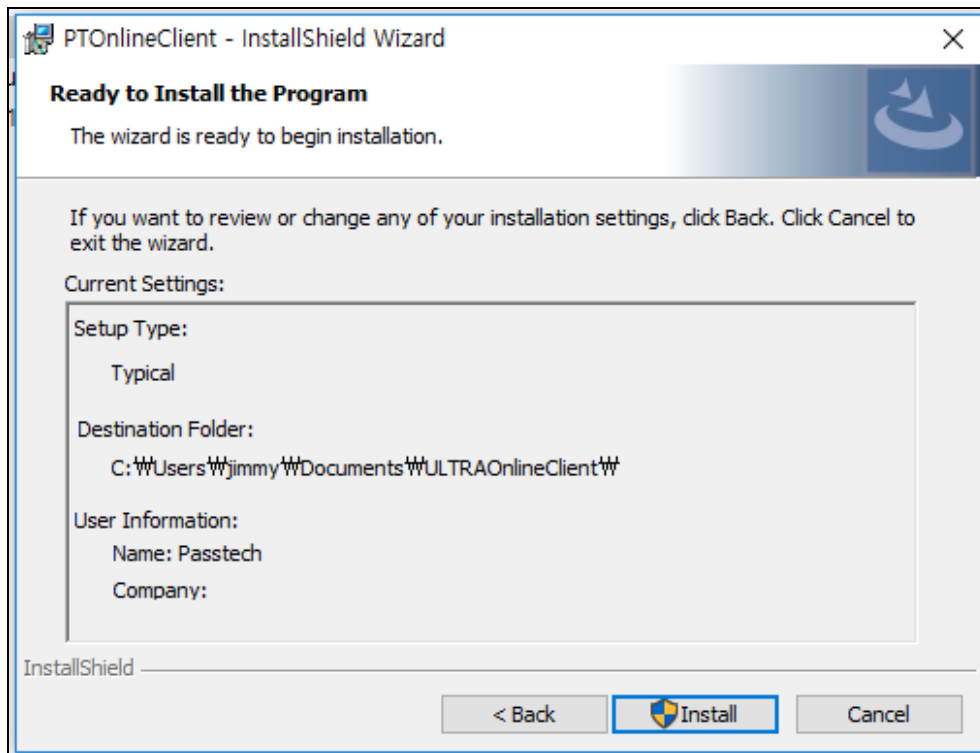

 Install PTOnlineClient to:
 C:\Users\jimmy\Documents\ULTRAOnlineClient\

Change...

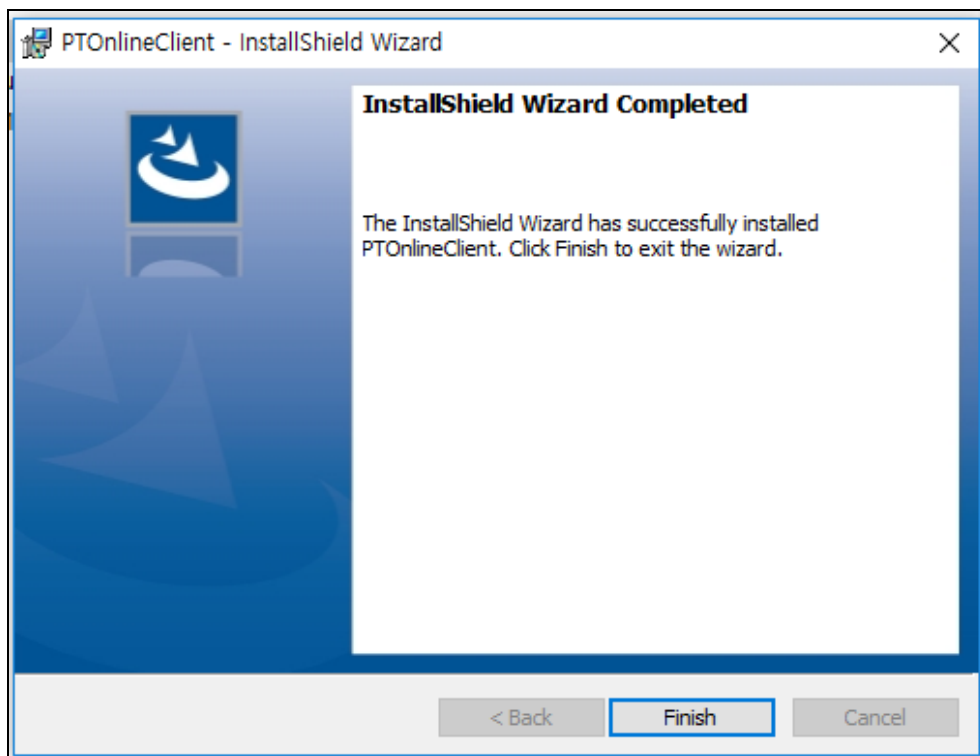
InstallShield

< Back Next > Cancel

- ④ Click 'Install' button to proceed.

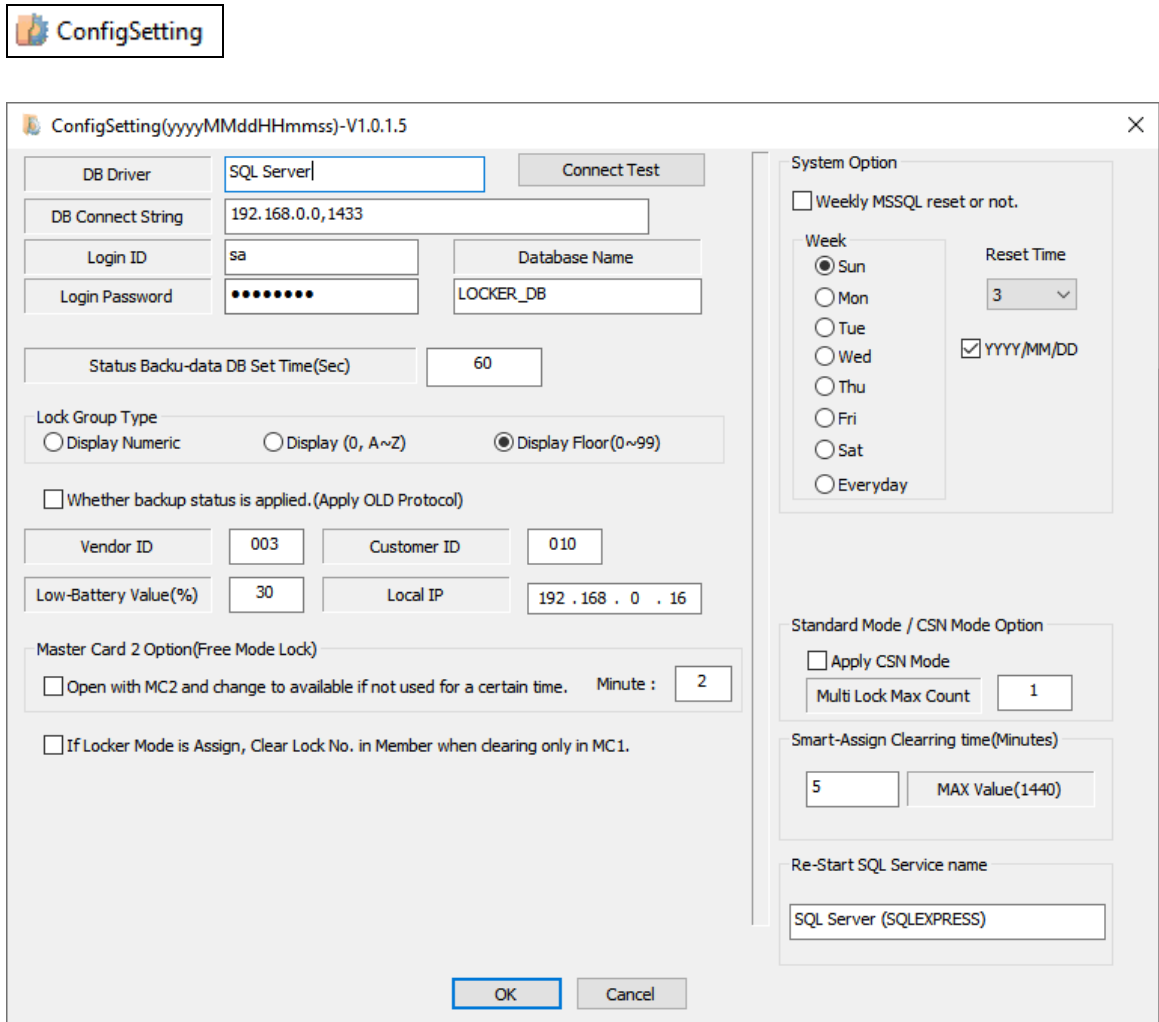


- ⑤ Click 'Finish' to complete the installation.



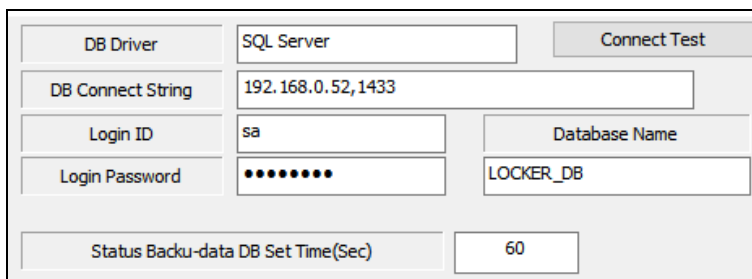
3) Server Configuration Setting

- ① Run 'ConfigSetting.exe' from the downloaded folder of server program.



The screenshot shows the 'ConfigSetting' application window. The main configuration area includes fields for DB Driver (SQL Server), DB Connect String (192.168.0.0,1433), Login ID (sa), Login Password (masked), Database Name (LOCKER_DB), and Status Backu-data DB Set Time (60). There are also checkboxes for Lock Group Type (Display Numeric, Display (0, A~Z), Display Floor (0~99)), Whether backup status is applied, and Master Card 2 Option. The right sidebar contains System Option (Weekly MSSQL reset or not, Week selection, Reset Time), Standard Mode / CSN Mode Option (Apply CSN Mode, Multi Lock Max Count), Smart-Assign Clearing time, and Re-Start SQL Service name.

- ② Set DB Connect String, Login ID and Login Password to connect to MSSQL DB.



This screenshot shows a portion of the 'ConfigSetting' application window, focusing on the database connection settings. The fields shown are DB Driver (SQL Server), DB Connect String (192.168.0.52,1433), Login ID (sa), Login Password (masked), and Database Name (LOCKER_DB). The Status Backu-data DB Set Time is also visible as 60.

Refer to the example below.

- DB Connect String:

MSSQL DB PC IP,	DB Connect Port
①	②

① MSSQL DB PC IP: 192.168.0.24

② DB Connect Port: 1433

- DB Connect ID: sa
- DB Connect PWD: passtech
(Password which you put when installing DB: passtech (Password is fixed))

- ③ Click 'Connect Test' button to check if DB Connection is okay.
- ④ This option will be used if the AP protocol is old. (**If you are using version 5 lock, you will set old protocol in AP account tab of Client program. This will be only used for those users. If the lock version is version 7 or more, it won't be applied**) It is asking for how often (default: every 60 seconds) you will get the lock backup status data from AP and update it to DB.

Status Backu-data DB Set Time(Sec)	60
------------------------------------	----

- ⑤ Select how to show group(floor) account
Display Numeric, Display (0, A~Z) or Display Floor (0~99)

Lock Group Type		
<input type="radio"/> Display Numeric	<input type="radio"/> Display (0, A~Z)	<input checked="" type="radio"/> Display Floor(0~99)

- ⑥ Check if you are using number ④ Status Backup-data DB set time. (If not checked, number ④ won't work)

<input type="checkbox"/> Whether backup status is applied.(Apply OLD Protocol)
--

- ⑦ Set Vendor/Customer ID and Local IP. Vendor/Customer ID is Key Card number which you generated from LKS for setting lock and Client program, and Local IP is your Server PC IP.
Low-Battery Value(%) should be more than 30%(default)

Vendor ID	003	Customer ID	010
Low-Battery Value(%)	30	Local IP	192 . 168 . 0 . 16

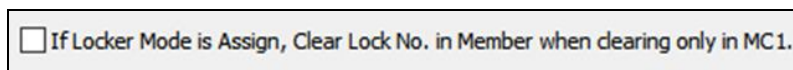
- ⑧ When opened the locker using Master card 2, if the locker is not used with user card for set time, locker will be available for another user. (Clear user data)

Not recommended for STD mode



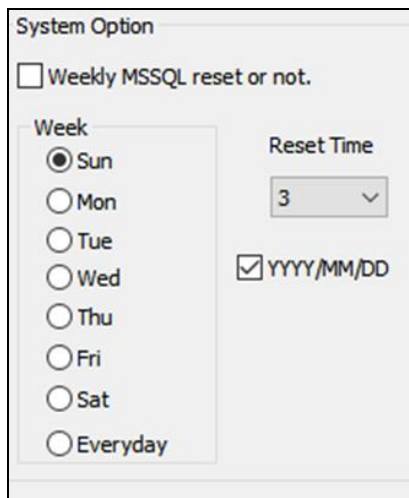
- ⑨ When locker is Assigned mode, if this option is checked, user data will be cleared(removed) in the lock with Master card 1.

Recommended option for STD mode (Default)



- ⑩ Whether you want to reboot SQL DB server once in a while (maximum a week) or not.

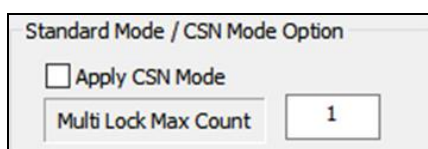
This option can be used if the server computer is running 24/7. But under normal circumstances, it is not recommended.



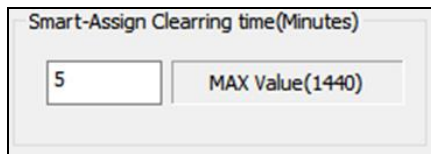
- ⑪ If you are using CSN mode, check this.

If you are using CSN mode with online whitelist, by using Multi Lock Max Count, you can limit the number of locks that is used by 1 card.

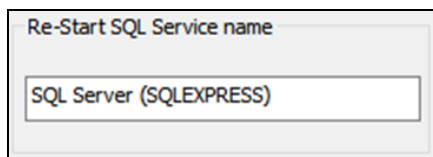
(Default: CSN mode will allow unlimited numbers of locks with 1 card)



- ⑫ On a Smart-Assigned mode, when a user changes his/her locker(for example, from A to B), for set time, his/her previous locker(Locker A) will be available with his/her card. You can set the time.

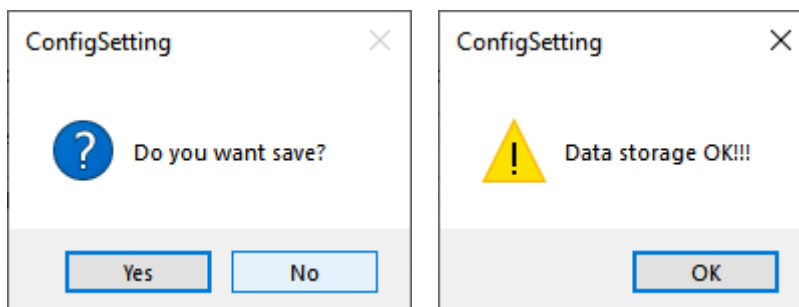


- ⑬ Related to number ⑩. Has to put default SQL service name on your computer.
Not recommended to change this.

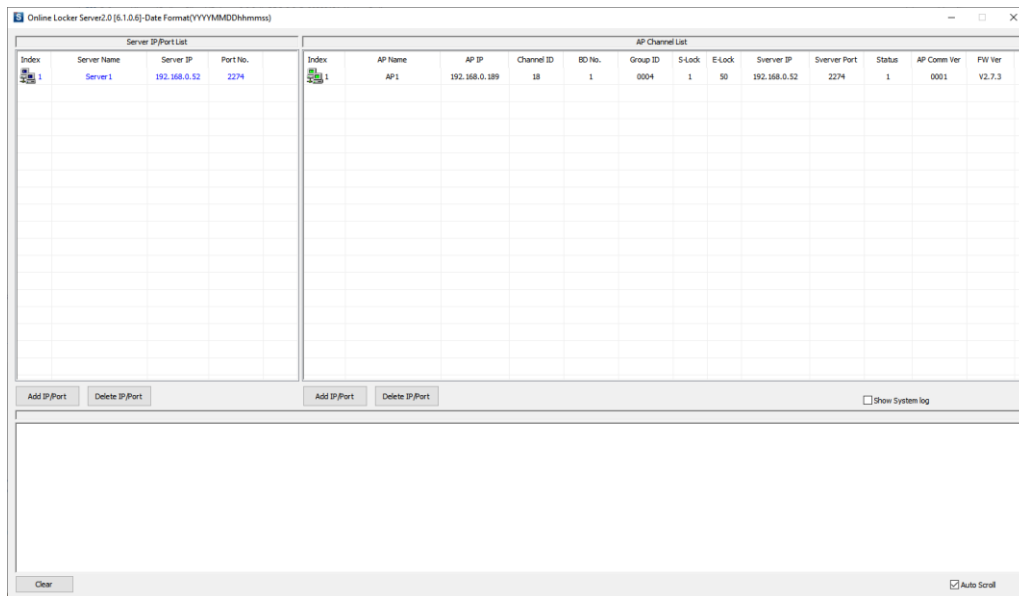


**You can set values depending on your operation scenario, but do not change them unless you have special reason.




- ⑭ Click 'OK' button to save.



- ⑮ Server Program must be activated after finishing AP account registration in Client program.
When you set AP account, if you check 'Apply to a server program' checkbox, the registered AP information will automatically appear on Server program list.

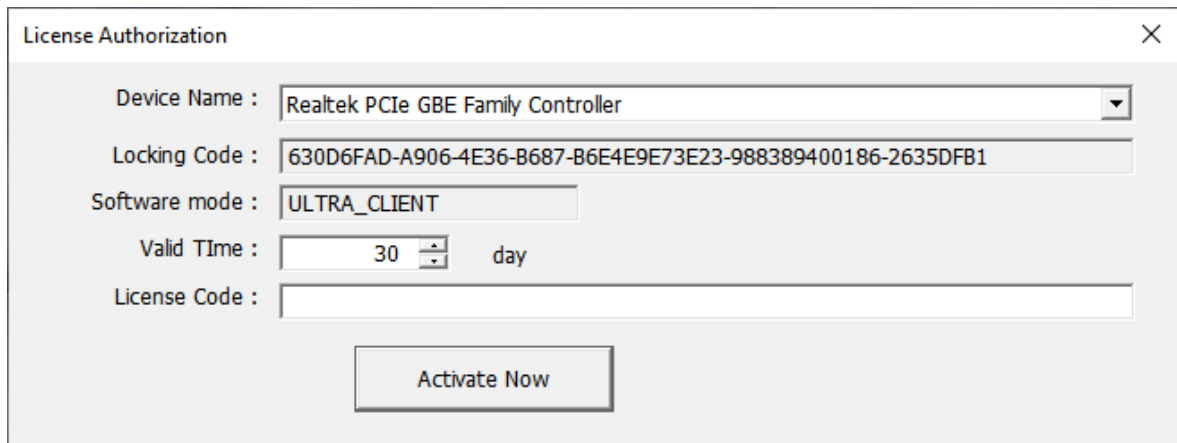


- 16 Check AP connection status to know whether it communicates well with server program.

Item	Description
 1	Connected
 1	Disconnected Check if AP information in AP Setting and Client program are same, and AP cable is connected well
 1	Not Connected
Icon blinks	Check if you read Key Card on Client, and put the Key number in Server configuration setting correctly

4) Client MSSQL DB Connection Setting

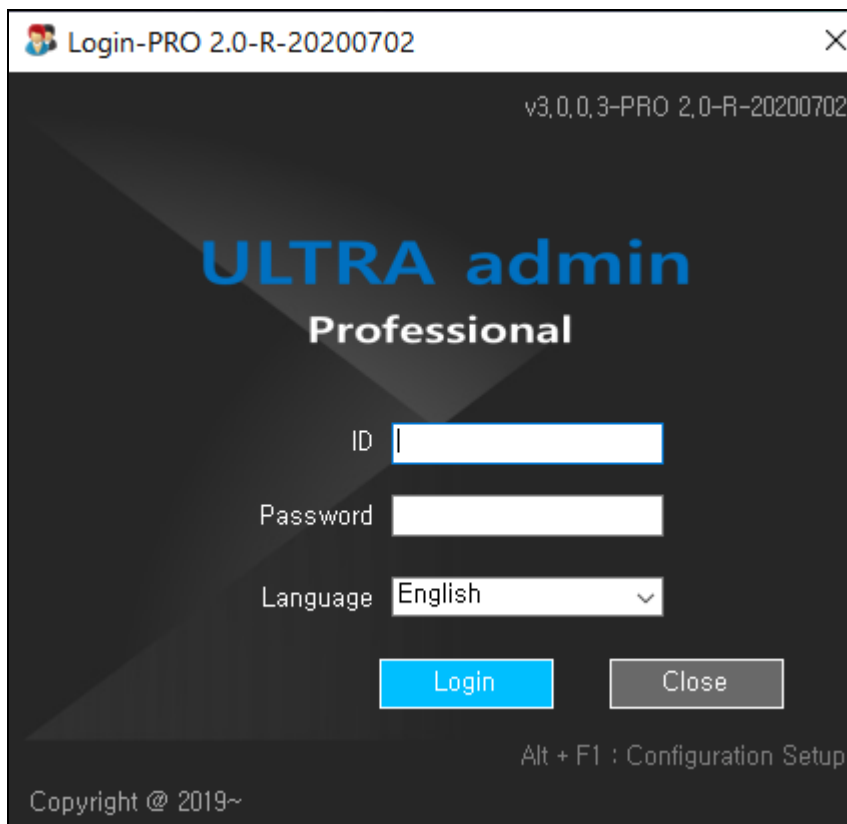
- ① Run 'PTOnlineClient' program from the download folder.
- ② License Authorization window will appear. Send the locking code to Passtech to get the license code for the software.



The 'License Authorization' window contains the following fields and controls:

- Device Name :** A dropdown menu showing 'Realtek PCIe GBE Family Controller'.
- Locking Code :** A text field containing '630D6FAD-A906-4E36-B687-B6E4E9E73E23-988389400186-2635DFB1'.
- Software mode :** A dropdown menu showing 'ULTRA_CLIENT'.
- Valid Time :** A numeric input field set to '30' and a unit dropdown set to 'day'.
- License Code :** An empty text field for pasting the license key.
- Activate Now** button.

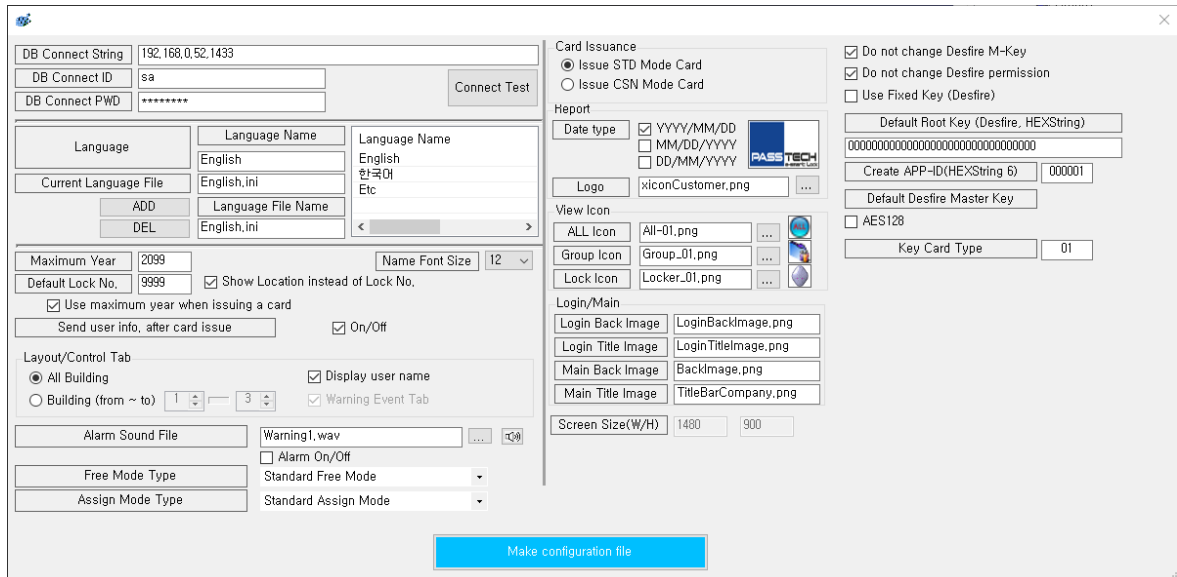
- ③ After you copy and paste the license key into the window, Client login window will appear.



The 'ULTRA admin Professional' login window displays the following information and controls:

- Title Bar:** Login-PRO 2.0-R-20200702
- Version:** v3.0.0.3-PRO 2.0-R-20200702
- Header:** ULTRA admin Professional
- Fields:**
 - ID :** A text input field.
 - Password :** A password input field.
 - Language :** A dropdown menu set to 'English'.
- Buttons:** Login (blue), Close (gray).
- Footer:** Alt + F1 : Configuration Setup, Copyright @ 2019~

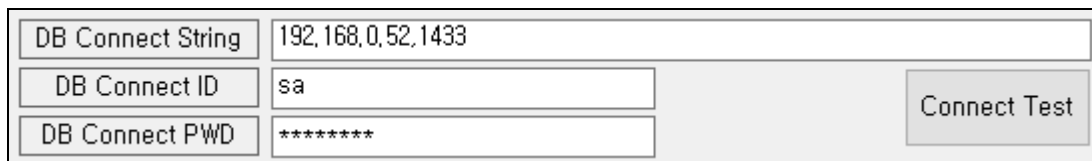
- ④ If SQL DB is not connected, Configuration window will appear.
You can also open this window pressing 'Alt + F1'.



The Configuration window is divided into several sections:

- DB Connection:** Fields for DB Connect String (192.168.0.52,1433), DB Connect ID (sa), and DB Connect PWD (*****). A "Connect Test" button is present.
- Language:** Fields for Language Name (English, 한국어, Etc), Current Language File (English.ini), and Language File Name (English.ini). Buttons for ADD and DEL are available.
- Maximum Year:** Set to 2099.
- Default Lock No.:** Set to 9999. A checkbox "Show Location instead of Lock No." is checked.
- Layout/Control Tab:** Radio buttons for "All Building" (selected) and "Building (from ~ to)". A checkbox "Display user name" is checked.
- Alarm Sound File:** Set to Warning1.wav. A checkbox "Alarm On/Off" is checked.
- Free Mode Type:** Set to Standard Free Mode.
- Assign Mode Type:** Set to Standard Assign Mode.
- Card Issuance:** Radio buttons for "Issue STD Mode Card" (selected) and "Issue CSN Mode Card".
- Report:** Date type (YYYY/MM/DD, MM/DD/YYYY, DD/MM/YYYY), Logo (xiconCustomer.png), and View Icon (ALL Icon, Group Icon, Lock Icon).
- Default Root Key (Desfire, HEXString):** 00000000000000000000000000000000.
- Create APP-ID(HEXString 6):** 000001.
- Default Desfire Master Key:** [Empty field].
- AES128:** [Empty field].
- Key Card Type:** 01.
- Login/Main:** Fields for Login Back Image, Login Title Image, Main Back Image, and Main Title Image.
- Screen Size(W/H):** 1480 x 900.
- Buttons:** "Make configuration file" at the bottom.

- ⑤ Set DB Connect String, DB Connect ID and PWD to connect to MSSQL DB.



The DB Connection section shows the following values:

- DB Connect String: 192.168.0.52,1433
- DB Connect ID: sa
- DB Connect PWD: *****
- Connect Test button

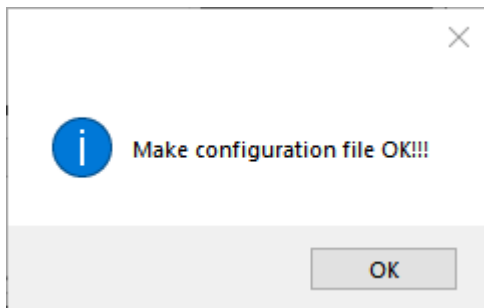
Refer to the example below.

- DB Connect String: MSSQL DB PC IP, DB Connect Port
Example) 192.168.0.52, 1433
 - ① MSSQL DB PC IP: 192.168.0.52
 - ② DB Connect Port: 1433
- DB Connect ID: sa
- DB Connect PWD: passtech
(Password which you put when installing DB: passtech (Password is fixed))

- ⑥ Click 'Connect Test' button to check if DB Connection is okay.



- ⑦ You can leave other setting options just the way they are if you don't have any special reason.
⑧ Click 'Make configuration file' to save the change.



- 17 You can set other values depending on your operation scenario, but do not change them unless you have special reason.

Item	Description
Language	Choose a language file you would like to use. You can add or delete them.
Maximum Year	Default maximum year for card issuance
Default Lock No.	Set as '9999' (if you want to limit lock number, you can change this)
Send user info, after card issue	On/Off (sending user info to Locks) – Assign mode Automatically change user card info on locks.
Layout/Control Tab	Layout control
Alarm Sound File	Client Alarm Sound
Free Mode Type	Standard Free Mode/Multi-Lock per group
Assign Mode Type	Standard Assign Mode/Assign After Mastercard 1/Assign based on Lock No./Assign based on Card No.
Card Issuance	Issue <u>STD Mode</u> Card/Issue <u>CSN Mode</u> Card (Check it when CSN mode is set for locks)

Date type	Set date type
Logo	Logo that shows on the client program (Default PASSTECH)
View Icon	Icon setting(can change icons)
Login/Main	Login and Main page Image
Screen Size	Shows default screen size(1300*900)
Display Group	Select how to show group(floor) account Display Numeric(00~99), Group (0, A~Z) or Floor (0~99)
Do not change Desfire M-key	Asking whether you would like to change Desfire Master key to Passtech Key. Recommend not changing it.
Do not change Desfire permission	Asking if AID and File Permission of Desfire card PT AID(000001) can be changed. Recommend not changing it.
Use Fixed Key (Desfire)	Asking whether the key(that creates Desfire Card AID(000001) and access to it) should be Variable Key or Fixed Key. Recommended Variable Key.
Default Root Key (Desfire, HEXString)	Put a desfire root key in order to use DESFire function
Create APP-ID(HEXString 6)	AID number for the Desfire card(Default passtech AID is 000001)
Default Desfire Master Key	Setting security method of Desfire Master Key to AES128.
Key Card Type	01 : Default must be 01.

3. Login and Main Screen

1) Login Screen

Login allows each user to use the program with authorized contents, and ID/Password is set to 'adminpasstechltd' / 'PassTech' by default when installed at first.



①	Client program version
②	Login ID
③	Login password
④	Display language
⑤	Login button
⑥	Close button
⑦	Configuration (Alt + F1)

(1) Connect SQL DB

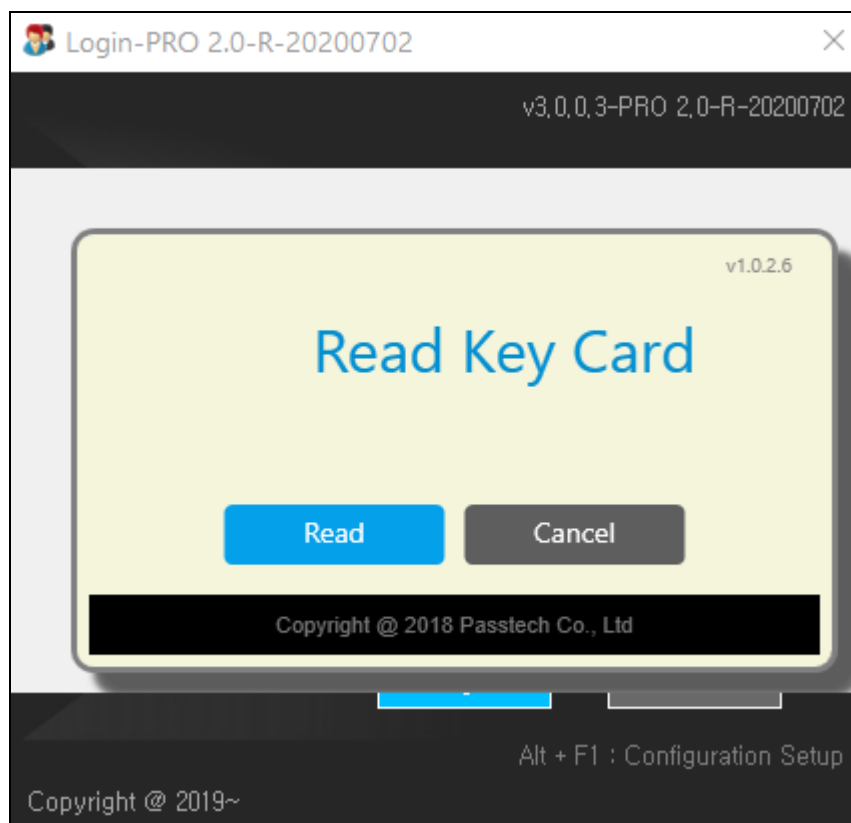
In the program, SQL DB must be connected by default to login (Refer to 2.3).

If DB is not connected, press Alt + F1 shortcut key to open Configuration window and enter DB Connect value.

(2) Read Key Card

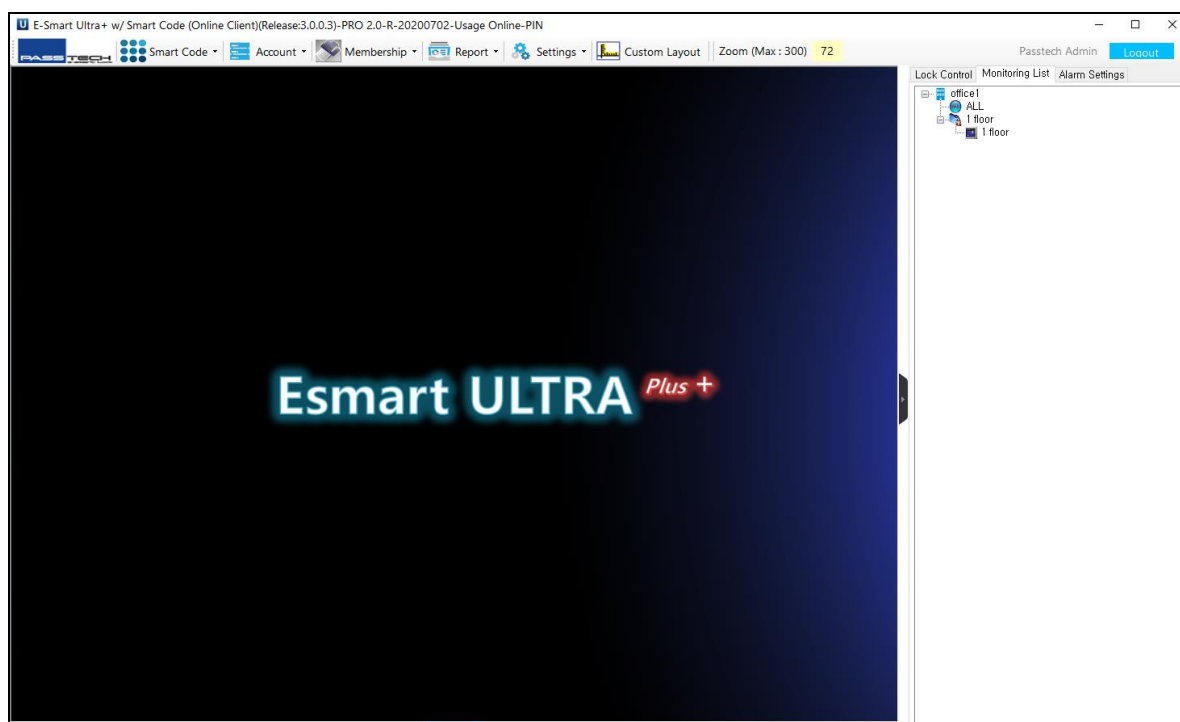
In order to issue various cards in Client program, Key Card must be stored in the DB.

Press shortcut key (Alt + F5) on login screen to read Key Card.



If you have installed the program for the first time, you must read Key Card issued from LKS by DE620 Card Reader in order to use the Client program.

2) Main Screen

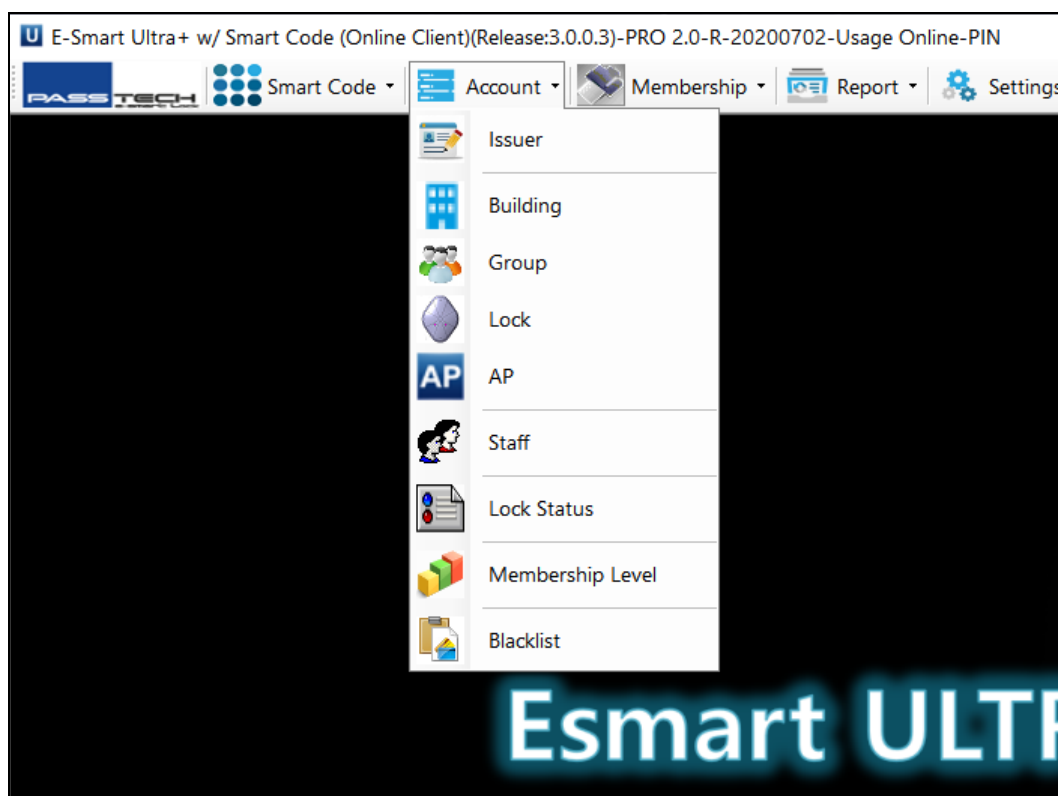


When you log in, the main screen above appears. The functions are as follows.







Function	Description
Monitoring	Enable to arrange in cascades, horizontal, and vertical
Account	Various accounts management and setting task
Membership	Issue User Card and System Cards, and Import/Export DB
Report	Card issue report, Audit Trail report, Lock Info report, and Lock usage report
Settings	Configuration, Lock setting value and user information change, and DB backup
Custom Layout	Enable to customize the layout of lock monitoring
Lock Control	Check the information of selected lock and control online lock
Monitoring List	Monitoring list of whole level or each level
Alarm Settings	Alarm On/Off and sound setting

4. Account

1) Menu List



2) Main Item Description

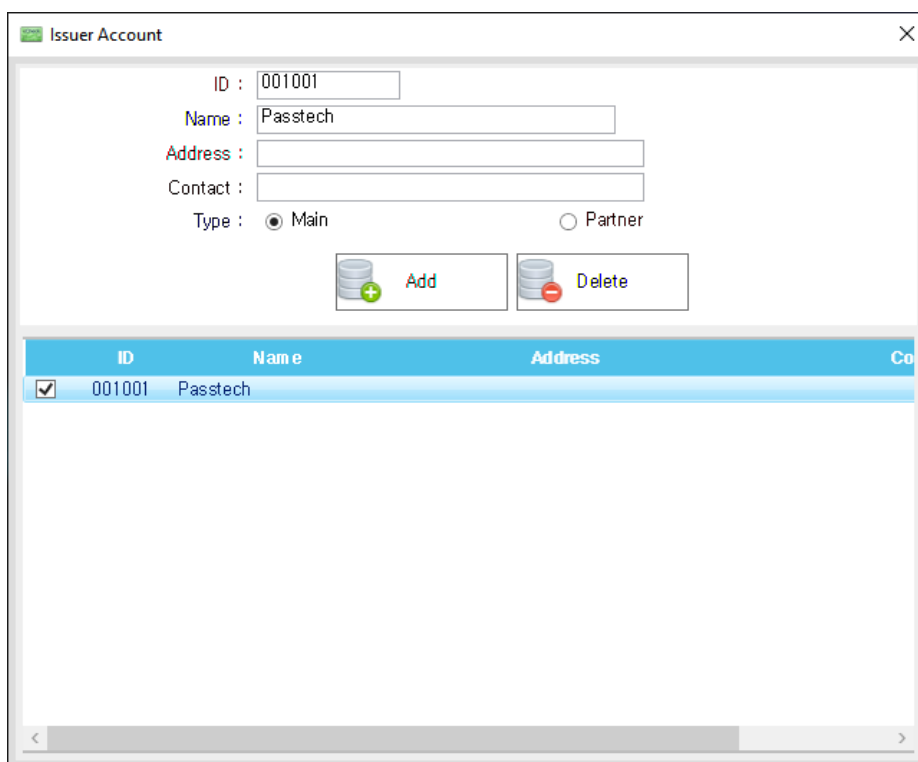
Button	Description
 Add	Button to add input value (SAVE function)
 New	Reset button to enter new information
 Update	Button for modifying information
 Save	Button for saving entered information
 Delete	Button to delete specific data of stored information
 Import	Button to import .CSV file

3) Account Management

(1) Issuer

A menu for managing Issuers. Issuer ID must be the Vendor and Customer ID which you input into Key Card. If the Issuer ID is different with Key Card number which you read before you log in, the program will not be working well.

You can also register Partners, but same Key with main issuer must be used for other affiliates in order to make them be able to use the account.



ID	Name	Address	Co
<input checked="" type="checkbox"/>	001001	Passtech	

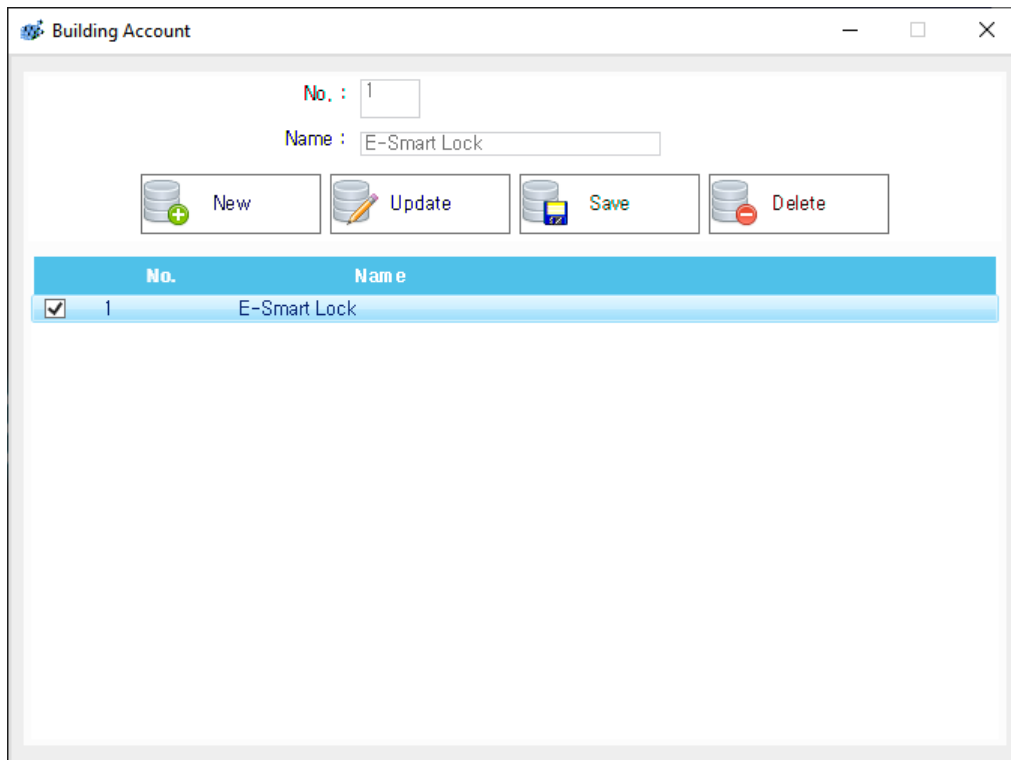
① Input the following items.

Item	Description
ID	Numeric 6 Digit, the value must be same as Key Card, MUST INPUT
Name	Company name
Address	Company address
Contact	Company contract
Type	Only 1 Main is available if you distinguish Main and partner

② Click 'Add' button to save the issuer account.

(2) Building

A menu for managing buildings. You can create different building accounts in case you have several separate buildings to manage.



No.	Name
<input checked="" type="checkbox"/> 1	E-Smart Lock

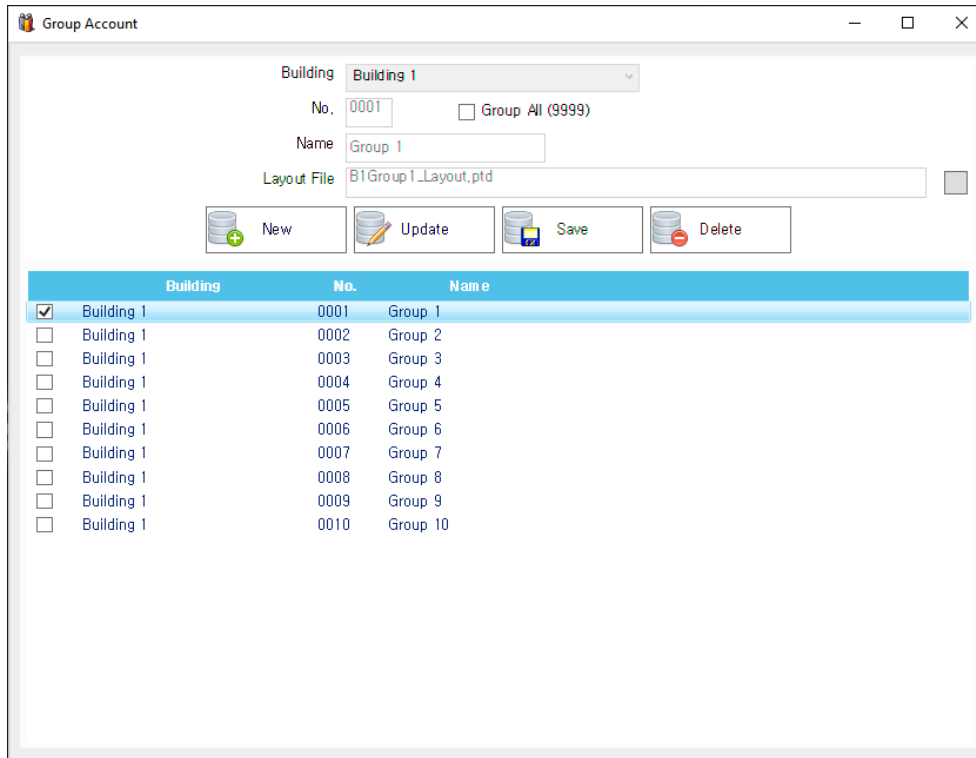
- ① Click 'New' button to enter new information.
- ② Input the following items and click 'Save' button to save the entered information.

Item	Description
No.	Input building number same as you set locks by Setup Card via LKS
Name	Input a name of the building

- ③ If you want to update the information, select the building account from the list and click 'Update' button to activate the building name box. Input the updated building name and click 'Save' button to update the selected building account.
- ④ If you want to delete the information, select the building account from the list and click 'Delete' button to delete the selected building account.

(3) Group

A menu for managing groups(floors). Group(Floor) shown on monitoring list can be registered and managed in here. You can also select the layout for each floor.

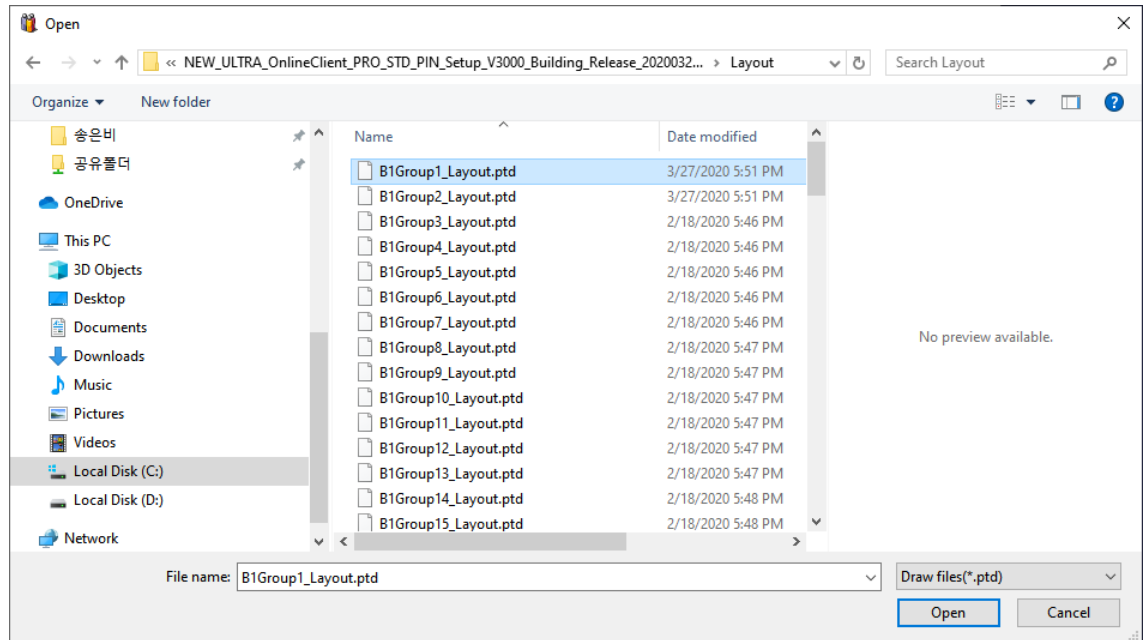


Building	No.	Name
<input checked="" type="checkbox"/> Building 1	0001	Group 1
<input type="checkbox"/> Building 1	0002	Group 2
<input type="checkbox"/> Building 1	0003	Group 3
<input type="checkbox"/> Building 1	0004	Group 4
<input type="checkbox"/> Building 1	0005	Group 5
<input type="checkbox"/> Building 1	0006	Group 6
<input type="checkbox"/> Building 1	0007	Group 7
<input type="checkbox"/> Building 1	0008	Group 8
<input type="checkbox"/> Building 1	0009	Group 9
<input type="checkbox"/> Building 1	0010	Group 10

- ① Click 'New' button to enter new information.
- ② Input the following items and click 'Save' button to save the entered information.

Item	Description
Building	Select building account
Group No.	Input group(floor) number (Must be 4-digits) Check 'Group All (9999)' checkbox for whole group monitoring
Group Name	Input group(floor) name
Layout File	You can create your own layout file by 'Custom Layout' (Refer to 9) and select it by clicking <input type="checkbox"/> to use Or leave the box blank if you want to use standard layout (Standard layout will be added if you click 'Layout Creation' when you create lock account (Refer to 4.3.4))

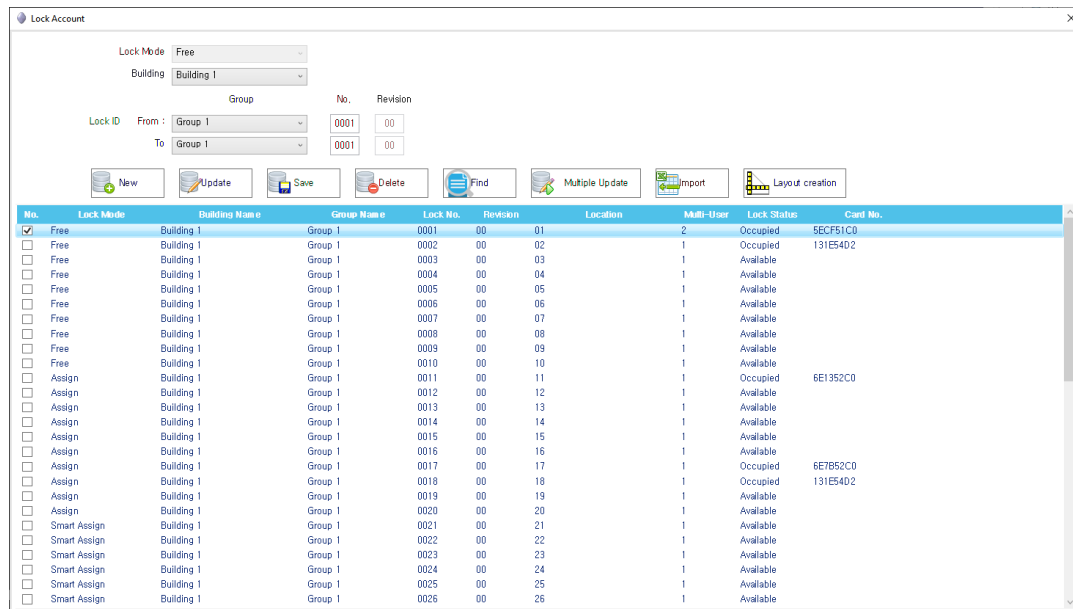
*Layout file must be saved in 'Layout' folder in Client folder. Standard layout created in lock account is also saved here. You can edit the layout if you want.



- ③ If you want to update information, select a group account from the list and click 'Update' button to activate the input boxes. Input the updated information and click 'Save' button to update the group account information.
- ④ If you want to delete, select a group account from the list and click 'Delete' button to delete the group account.

(4) Lock

A menu for managing locks. You can register and manage locks for each group(floor). Basically, the information must be same as the one you set locks.



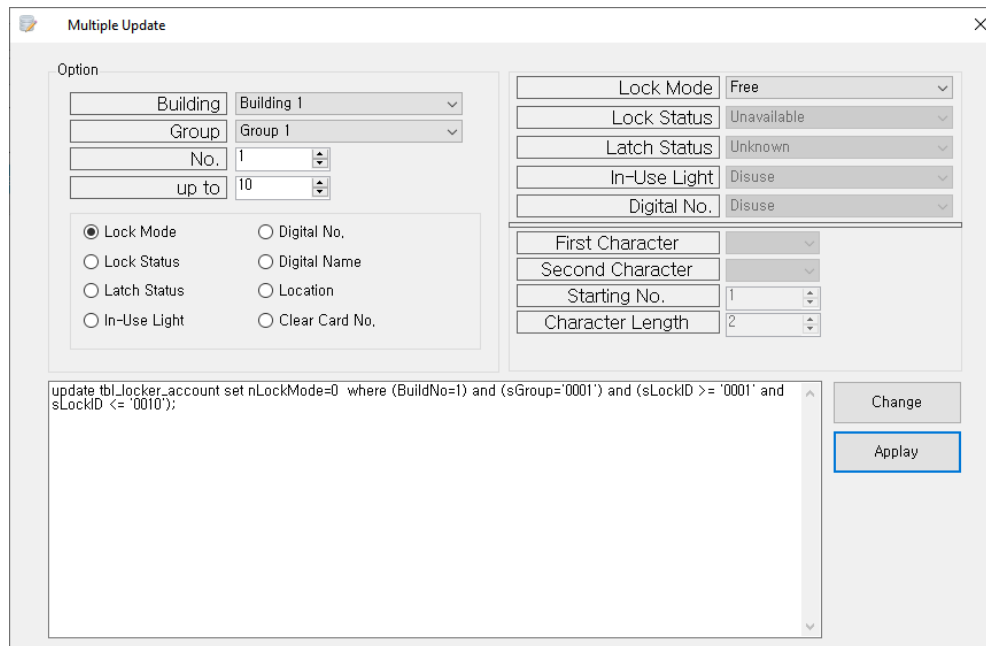
No.	Lock Mode	Building Name	Group Name	Lock No.	Revision	Location	Multi-User	Lock Status	Card No.
<input checked="" type="checkbox"/>	Free	Building 1	Group 1	0001	00	01	2	Occupied	5ECF51C0
<input type="checkbox"/>	Free	Building 1	Group 1	0002	00	02	1	Occupied	131E54D2
<input type="checkbox"/>	Free	Building 1	Group 1	0003	00	03	1	Available	
<input type="checkbox"/>	Free	Building 1	Group 1	0004	00	04	1	Available	
<input type="checkbox"/>	Free	Building 1	Group 1	0005	00	05	1	Available	
<input type="checkbox"/>	Free	Building 1	Group 1	0006	00	06	1	Available	
<input type="checkbox"/>	Free	Building 1	Group 1	0007	00	07	1	Available	
<input type="checkbox"/>	Free	Building 1	Group 1	0008	00	08	1	Available	
<input type="checkbox"/>	Free	Building 1	Group 1	0009	00	09	1	Available	
<input type="checkbox"/>	Free	Building 1	Group 1	0010	00	10	1	Available	
<input type="checkbox"/>	Assign	Building 1	Group 1	0011	00	11	1	Occupied	6E1352C0
<input type="checkbox"/>	Assign	Building 1	Group 1	0012	00	12	1	Available	
<input type="checkbox"/>	Assign	Building 1	Group 1	0013	00	13	1	Available	
<input type="checkbox"/>	Assign	Building 1	Group 1	0014	00	14	1	Available	
<input type="checkbox"/>	Assign	Building 1	Group 1	0015	00	15	1	Available	
<input type="checkbox"/>	Assign	Building 1	Group 1	0016	00	16	1	Available	
<input type="checkbox"/>	Assign	Building 1	Group 1	0017	00	17	1	Occupied	6E7B52C0
<input type="checkbox"/>	Assign	Building 1	Group 1	0018	00	18	1	Occupied	131E54D2
<input type="checkbox"/>	Assign	Building 1	Group 1	0019	00	19	1	Available	
<input type="checkbox"/>	Assign	Building 1	Group 1	0020	00	20	1	Available	
<input type="checkbox"/>	Smart Assign	Building 1	Group 1	0021	00	21	1	Available	
<input type="checkbox"/>	Smart Assign	Building 1	Group 1	0022	00	22	1	Available	
<input type="checkbox"/>	Smart Assign	Building 1	Group 1	0023	00	23	1	Available	
<input type="checkbox"/>	Smart Assign	Building 1	Group 1	0024	00	24	1	Available	
<input type="checkbox"/>	Smart Assign	Building 1	Group 1	0025	00	25	1	Available	
<input type="checkbox"/>	Smart Assign	Building 1	Group 1	0026	00	26	1	Available	

- ① Click 'New' button to enter new information.
- ② Input the following items and click 'Save' button to save the entered information

Item	Description
Lock Mode	Select 'Free Mode', 'Assign Mode' or 'Smart Assign Mode'
Building	Select a registered building account
Lock From To	<p>Select a registered group(floor) account and input lock number range (From~ To ~)</p> <p>The revision number can be used for the situation of user card lost under Assigned mode (Lock always accepts User cards that have only the same or higher revision number, so when a user lost its card, change the lock revision number higher to avoid the lost card is used on the lock again after found (Refer to LKS Manual for more information))</p>

- ③ If you want to update the information, select the lock account from the list and click 'Update' button to activate the input boxes. Input the updated information and click 'Save' button to update the lock account information.

- ④ If you want to delete the information, select the lock account from the list and click 'Delete' button to delete.
- ⑤ If you want to search specific locks, input Building, Group and Lock number of the locks and click 'Find' button.
- ⑥ To update multiple lock information, click 'Multiple Update' button.



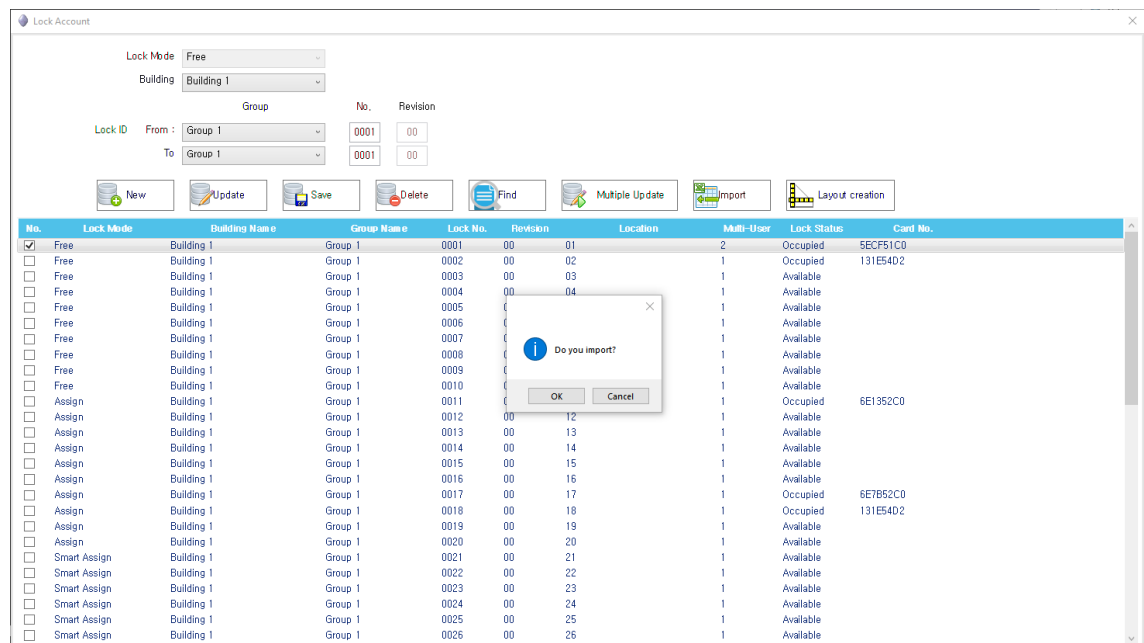
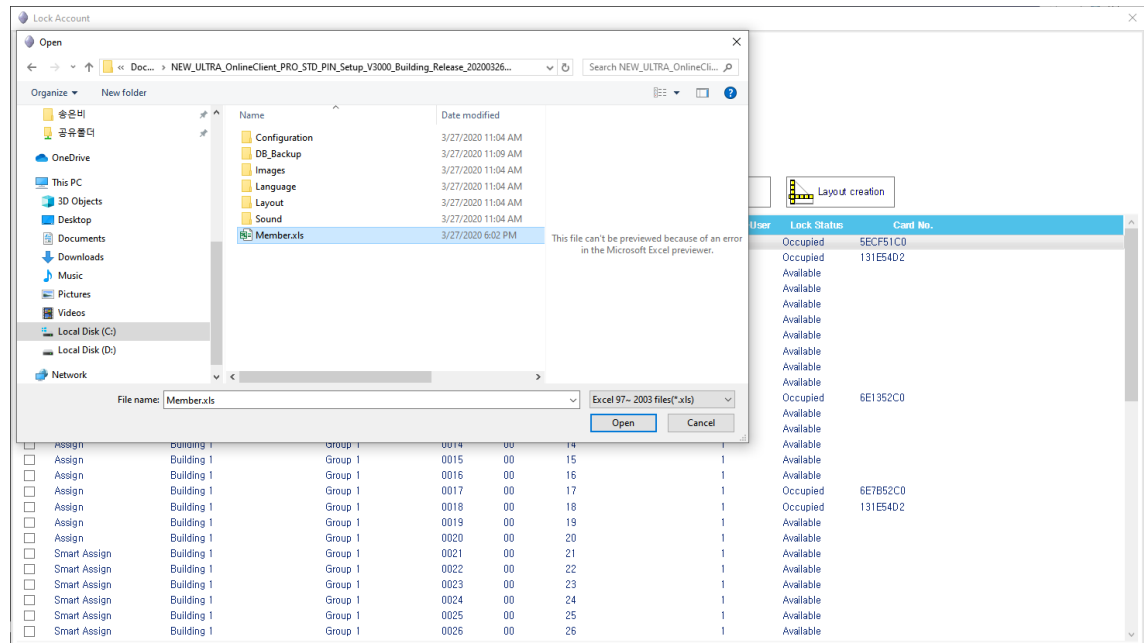
Select building account, group account and starting number and ending number of the locks you want to update the information of, and select an item to update.

Only select list of the selected item will be activated on the right side of the screen.

Item	Description
Lock Mode	'Free Mode', 'Assign Mode' or 'Smart Assign Mode'
Lock Status	'Unavailable', 'Available' or 'Occupied'
Latch Status	'Unknown', 'Open' or 'Close'
In-use light	'Disuse', 'When Occupied', 'When Available' or 'When Available (Smart Assign)'
Digital No.	'Disuse', 'Fixed Color' or 'Color Changing (Open/Close)'
Digital Name	'Digital No.' must be available Chosen first second character and number will be shown on the monitoring lock icon as digital number style1
Location	Input Locks' location (ex. S001 = Number 1 lock of South)
Clear Card No.	Clear all saved card number in lock account

After changing the information, click 'Change' button and then click 'Apply' button to save the information on SQL DB and lock account.

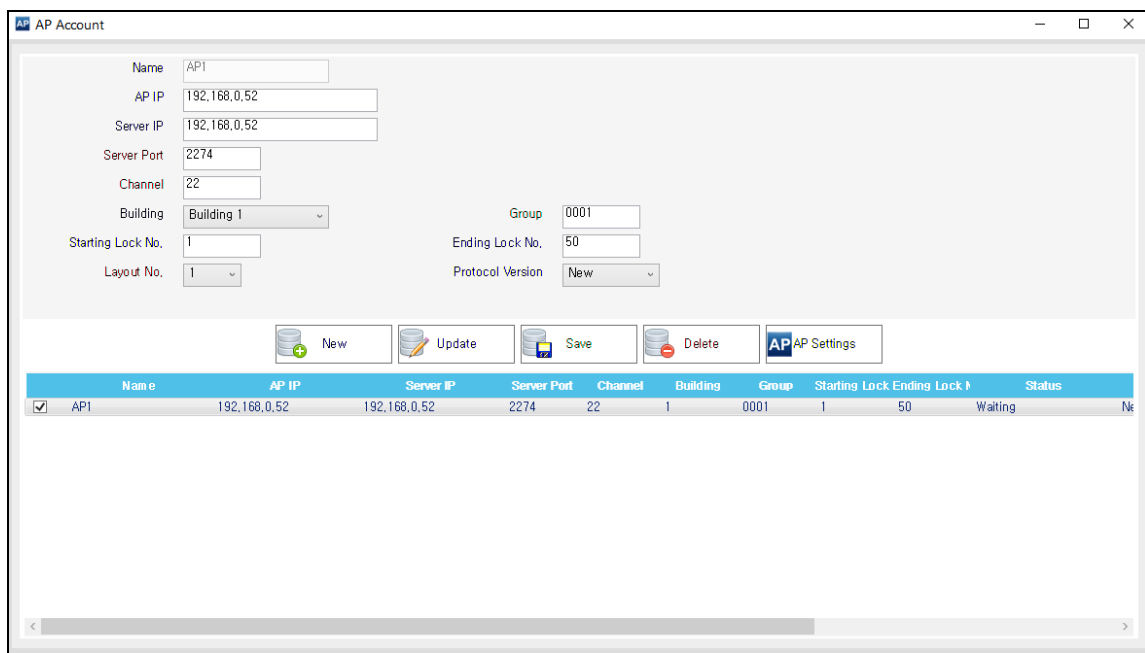
- ⑦ If you have a formed excel file containing lock and user information, you can simply import the file to lock account and manage it.



- ⑧ If you want to use standard layout instead of your layout created by 'Custom Layout', press 'Layout Creation' button. Standard layout will be created by group and saved in group account to show on monitoring.

(5) AP

A menu for managing AP information. You can input the value you set on AP Settings and Server Program. If a registered AP has different information with Server program, the AP cannot communicate with locks, and of course lock status cannot be shown on the monitoring.



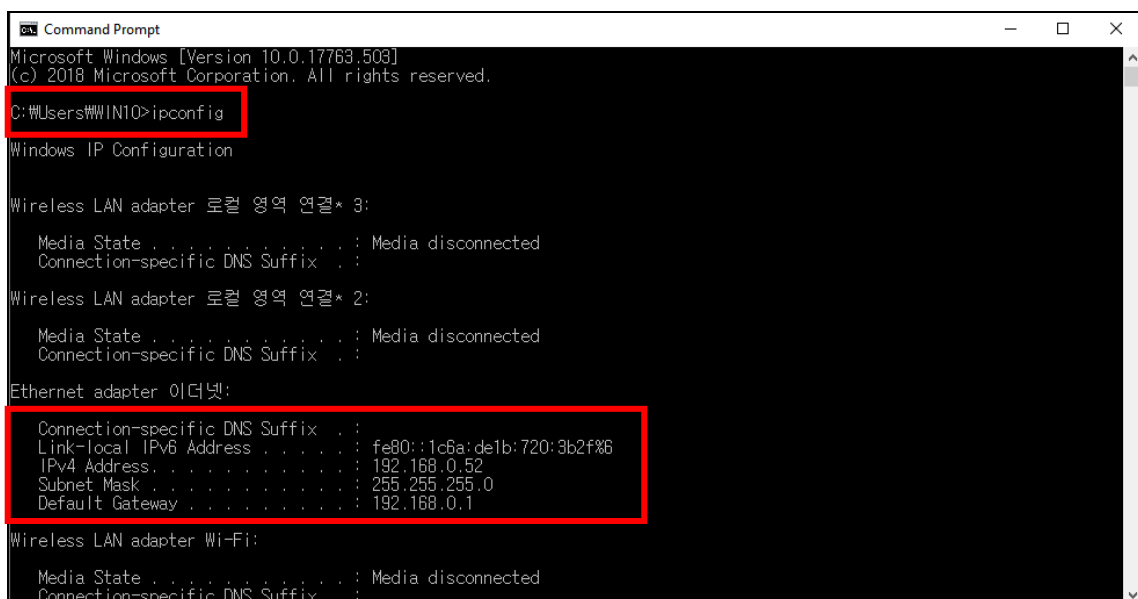
The screenshot shows the 'AP Account' window. The form contains the following fields:

- Name: API
- AP IP: 192.168.0.52
- Server IP: 192.168.0.52
- Server Port: 2274
- Channel: 22
- Building: Building 1
- Group: 0001
- Starting Lock No.: 1
- Ending Lock No.: 50
- Layout No.: 1
- Protocol Version: New

Below the form are buttons for 'New', 'Update', 'Save', 'Delete', and 'AP Settings'. Below these buttons is a table with the following columns: Name, AP IP, Server IP, Server Port, Channel, Building, Group, Starting Lock, Ending Lock, Status.

Name	AP IP	Server IP	Server Port	Channel	Building	Group	Starting Lock	Ending Lock	Status
API	192.168.0.52	192.168.0.52	2274	22	1	0001	1	50	Waiting

Before creating AP account, please check PC IP and TCP/IP first by running 'Command Prompt' and inputting 'ipconfig' command as below.



```

Microsoft Windows [Version 10.0.17763.503]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\WIN10>ipconfig

Windows IP Configuration

Wireless LAN adapter 로컬 영역 연결* 3:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix . :

Wireless LAN adapter 로컬 영역 연결* 2:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix . :

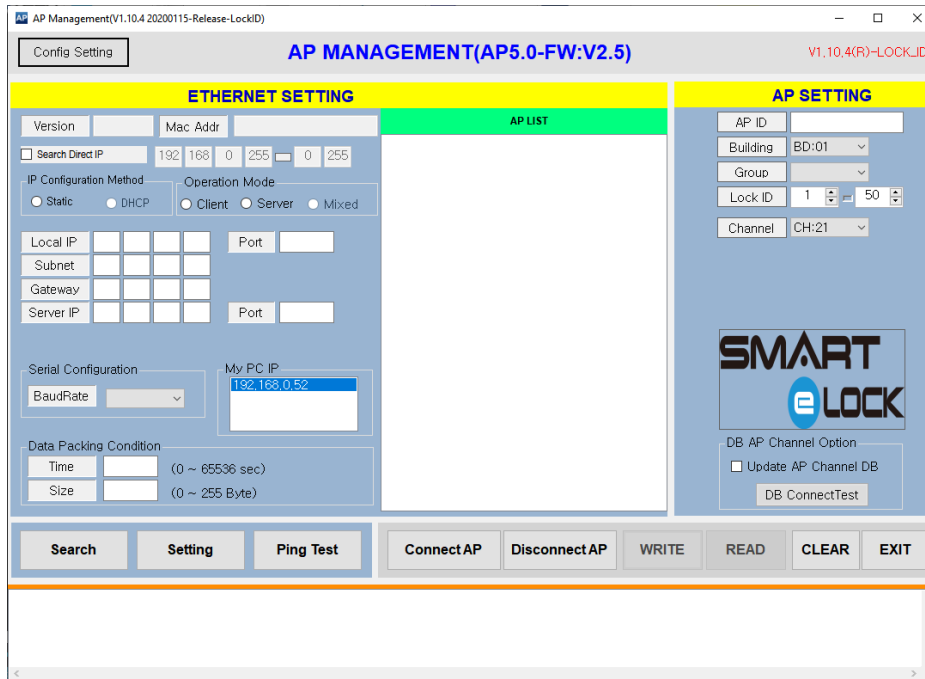
Ethernet adapter 이더넷:

    Connection-specific DNS Suffix . :
    Link-local IPv6 Address . . . . . : fe80::1c6a:de1b:720:3b2f%6
    IPv4 Address. . . . . : 192.168.0.52
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.0.1

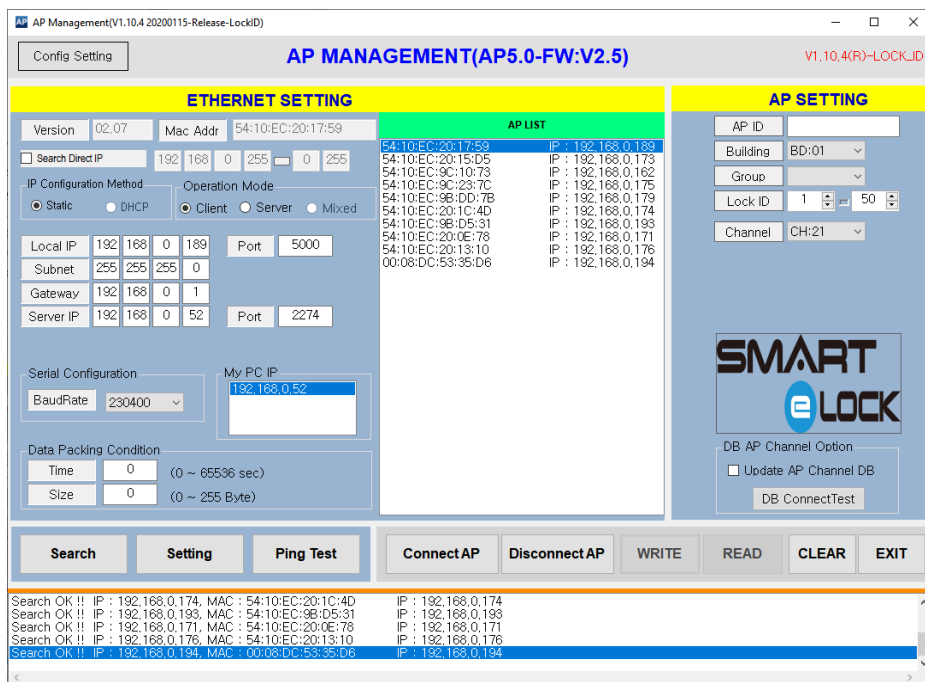
Wireless LAN adapter Wi-Fi:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix . :
  
```

- ① Click 'AP Settings'.

- ② Select Server PC IP from 'My PC IP' box, and click 'Search' button.
Mac address and IP of connected AP200 will be shown on AP List.

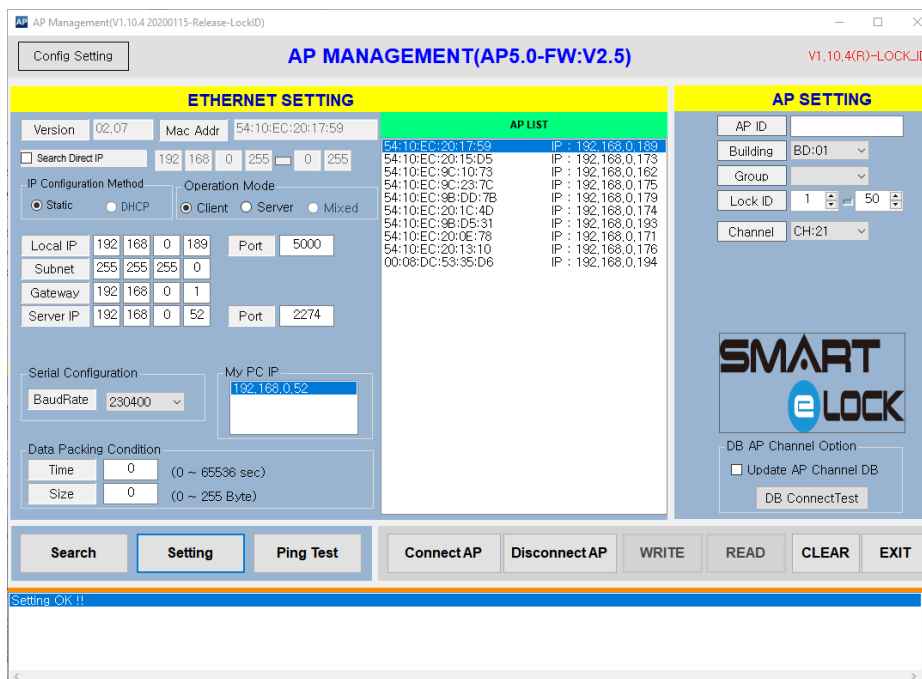


Mac Addr	IP
54:10:EC:20:17:59	IP : 192.168.0.189
54:10:EC:20:15:D5	IP : 192.168.0.173
54:10:EC:9C:10:73	IP : 192.168.0.162
54:10:EC:9C:23:7C	IP : 192.168.0.175
54:10:EC:9B:DD:78	IP : 192.168.0.179
54:10:EC:20:1C:4D	IP : 192.168.0.174
54:10:EC:9B:D5:31	IP : 192.168.0.193
54:10:EC:20:0E:78	IP : 192.168.0.171
54:10:EC:20:13:10	IP : 192.168.0.176
00:08:DC:53:35:D6	IP : 192.168.0.194

- ③ Select an AP which you want to configure from the AP list, and input values in 'Ethernet Setting' referring to the description below.

Item	Description
Local IP	AP IP Make sure this IP is only assigned to this AP
Local Port	Assign the port number on your own (Default: 5000)
Subnet	Input the value (Subnet Mask) checked in Command Prompt
Gateway	Input the value (Default Gateway) checked in Command Prompt
Server IP	Input the value (IPv4 Address) checked in Command Prompt
Server Port	Input the port number as set in Server program (Default 2274)

- ④ Click 'Setting' button to save the information to the selected AP, and check the message 'Setting OK' from the message box below.



The screenshot shows the 'AP Management (AP5.0-FW:V2.5)' software interface. The 'Config Setting' tab is active. The 'ETHERNET SETTING' section on the left includes fields for Version (02.07), Mac Addr (54:10:EC:20:17:59), and IP Configuration Method (Static/DHCP). The 'AP LIST' table in the center displays a list of APs with their MAC addresses and IP addresses. The 'AP SETTING' section on the right includes fields for AP ID, Building, Group, Lock ID, and Channel. At the bottom, there are buttons for Search, Setting, Ping Test, Connect AP, Disconnect AP, WRITE, READ, CLEAR, and EXIT. A status bar at the bottom indicates 'Setting OK !!'.

- ⑤ Click 'Connect AP' button and check the message 'Connected OK' from the message box. If it is connected well, 'WRITE' and 'READ' buttons will be activated.

[illegible]

- ⑥ Click 'READ' button to check current saved information.

AP Management(V1.04.20200115-Release-LockID)

Config Setting

AP MANAGEMENT(AP5.0-FW:V2.5)

V1.04(R)-LOCKID

ETHERNET SETTING

Version02.07

Mac Addr54:10:EC:20:17:59

☐ Search Direct IP

1921680255

000

IP Configuration Method

☒ Static
 ☐ DHCP

Operation Mode

☒ Client
 ☐ Server
 ☐ Mixed

Local IP1921680189

Port5000

Subnet2552552550

Gateway19216801

Server IP192168052

Port2274

Serial Configuration

BaudRate230400

My PC IP192.168.0.52

Data Packing Condition

Time0(0 ~ 65536 sec)

Size0(0 ~ 255 Byte)

AP LIST

54:10:EC:20:17:59IP: 192.168.0.189

54:10:EC:20:15:D5IP: 192.168.0.173

54:10:EC:9C:10:73IP: 192.168.0.162

54:10:EC:9C:23:7CIP: 192.168.0.175

54:10:EC:9B:DD:75IP: 192.168.0.179

54:10:EC:20:1C:4DIP: 192.168.0.174

54:10:EC:9B:D5:31IP: 192.168.0.193

54:10:EC:20:0E:78IP: 192.168.0.171

54:10:EC:20:13:10IP: 192.168.0.176

00:08:DC:53:35:D6IP: 192.168.0.194

AP SETTING

AP IDAP1

BuildingBD:01

GroupGroup 01

Lock ID1

50

ChannelCH:18

SMART e LOCK

DB AP Channel Option

☐ Update AP Channel DB

DB ConnectTest

Search

Setting

Ping Test

Connect AP

Disconnect AP

WRITE

READ

CLEAR

EXIT

R=> 02503780000

R<= 1,1,.....AP1,18,01010001,01010050,,,4,x

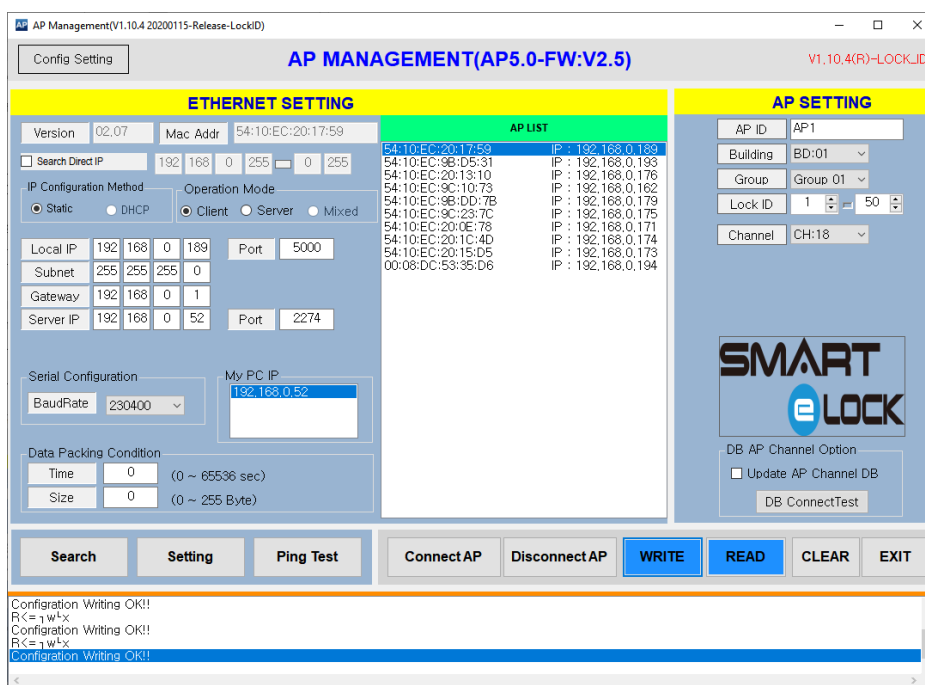
Configuration Reading OK!!

02722c2c2c2c2c2c2c2c2c4150312c31382c30313031303030312c30313031303035302c2c2c0378

- ⑦ Input values in 'AP Setting' referring to the description below.

Item	Description
AP ID	AP name that will be inputted into AP Account in Client program Assign AP ID on your own, but do not duplicate Only English alphabet and number are available (Any space or special characters cannot be contained)
Building	Building number (1~50)
Group	Group(Floor) number (1~99)
Lock ID	Starting and ending number of locks connected to the selected AP (Max. 50 locks per 1 AP is recommended)
Channel	RF Channel for the selected AP (Channel 11~25) Do not set neighboring AP channel to near APs to minimize wireless interference
DB AP Channel Option	Check if you want to update the AP setting information on DB

- ⑧ Click 'WRITE' button to save the information of the selected AP, and check the message 'Configuration writing OK' from message box.



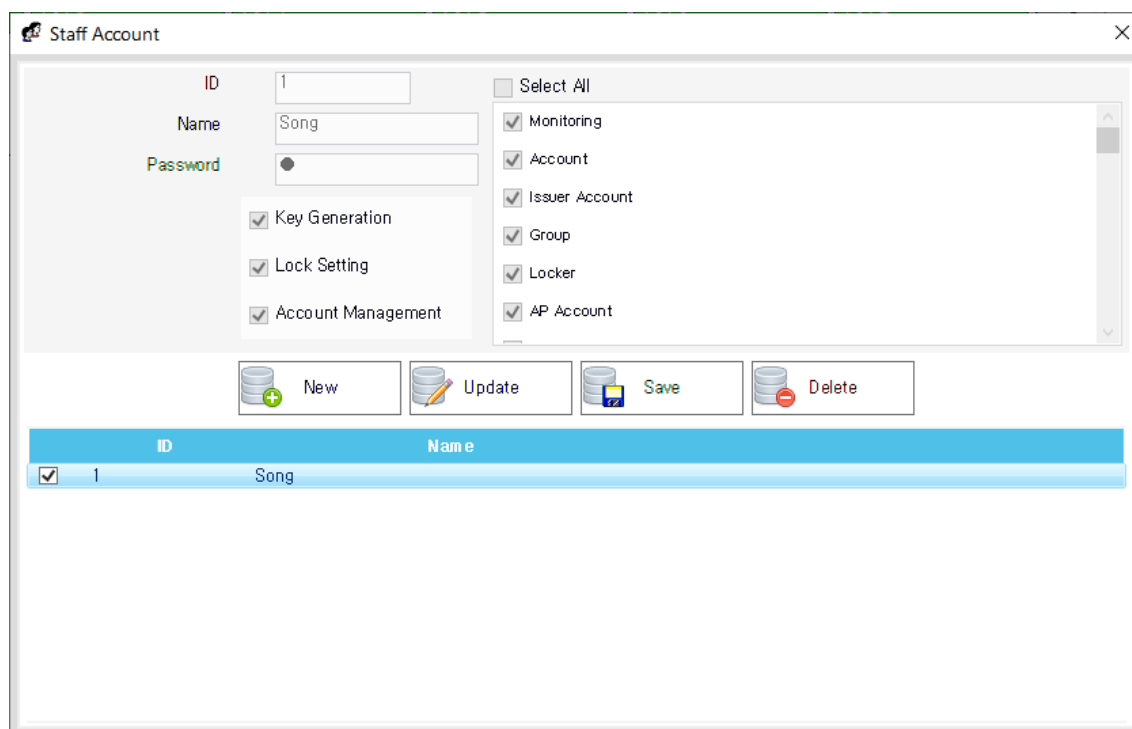
- ⑨ Click 'READ' button again to check if the setting values are properly saved.
- ⑩ If you want to set another AP, follow the steps from ②.
- ⑪ After setting is completed, click 'EXIT' to close the window.
- ⑫ Click 'New' button from AP account window to enter new information.
- ⑬ Input the following items and click 'Save' button to save the entered information.

Item	Description
Name	Input AP Name which you set in AP Settings
Apply to Server	Check to update the information into Server program automatically
AP IP	Input AP IP address which you set in AP Settings
Server IP	Input IP address of a PC which Server is installed in
Server Port	Input server port (Default: 2274)
Channel	Input RF Channel which you set in AP Settings
Building	Select Building account which you set in AP Settings
Group	Input Group number which you set in AP Settings
Starting Lock No.	Input Starting number of the lock that you set in AP Settings
Ending Lock No.	Input Ending number of the lock which you set in AP Settings
Layout No.	Select AP Layout ID same as you set in Custom Layout
Protocol Version	Select Old Protocol = Lock hardware version lower than v. 5 Select New Protocol = Lock hardware version higher than v. 7

- ⑭ If you want to update the information, select the AP account from the list and click 'Update' button to activate the input boxes. Input the updated information and click 'Save' button to update.
- ⑮ If you want to delete the information, select the AP account from the list and click 'Delete' button to delete.

(6) Staff

A menu for managing information on staffs. You can manage staffs(program users) in here. Each staff can be granted permission to use functions of program.



ID	Name
1	Song

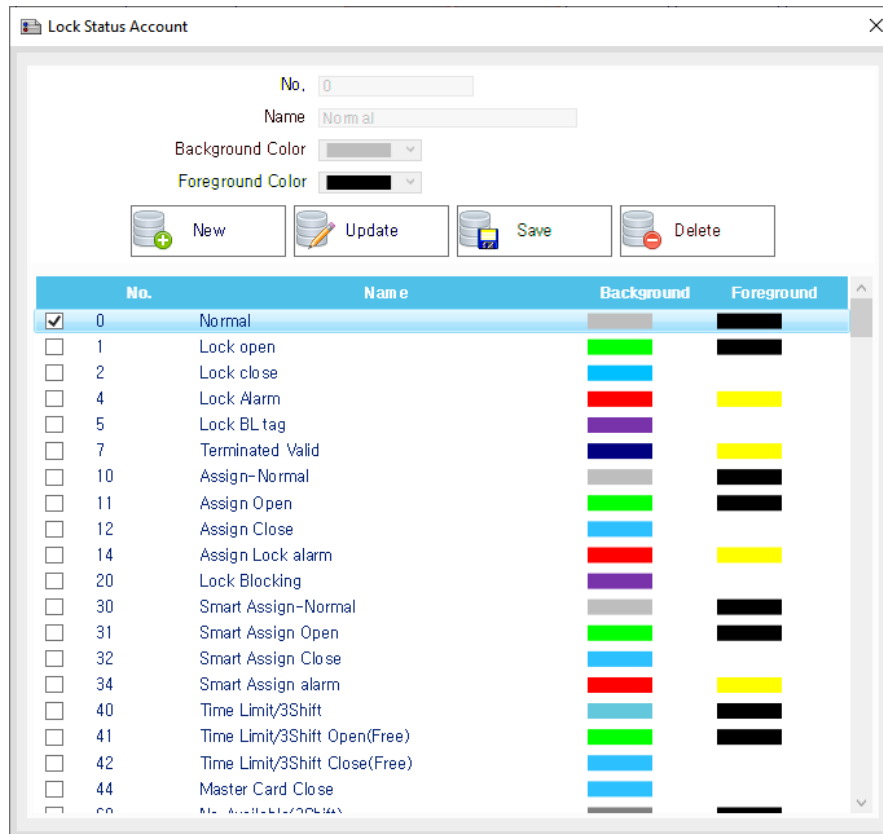
- ① Click 'New' button to enter new information.
- ② Input the following items and click 'Save' button to save the entered information.

Item	Description
ID	Login ID
Name	Name of Staff(User)
Password	Login password
Key Generation	Key Card generating permission
Lock Setting	Lock setting permission
Account Management	Account managing permission
Program menu list	Program menu access permission

- ③ If you want to update the information, select the Staff account from the list and click 'Update' button to activate the input boxes. Input the updated information and click 'Save' button to update the staff account.
- ④ If you want to delete the information, select the Staff account from the list and click 'Delete' button to delete it.

(7) Lock Status

A menu for managing the name of each function and its background and foreground color shown on monitoring layout.



No.	Name	Background	Foreground
<input checked="" type="checkbox"/> 0	Normal	Grey	Black
<input type="checkbox"/> 1	Lock open	Green	Black
<input type="checkbox"/> 2	Lock close	Blue	Black
<input type="checkbox"/> 4	Lock Alarm	Red	Yellow
<input type="checkbox"/> 5	Lock BL tag	Purple	Yellow
<input type="checkbox"/> 7	Terminated Valid	Dark Blue	Yellow
<input type="checkbox"/> 10	Assign- Normal	Grey	Black
<input type="checkbox"/> 11	Assign Open	Green	Black
<input type="checkbox"/> 12	Assign Close	Blue	Black
<input type="checkbox"/> 14	Assign Lock alarm	Red	Yellow
<input type="checkbox"/> 20	Lock Blocking	Purple	Yellow
<input type="checkbox"/> 30	Smart Assign-Normal	Grey	Black
<input type="checkbox"/> 31	Smart Assign Open	Green	Black
<input type="checkbox"/> 32	Smart Assign Close	Blue	Black
<input type="checkbox"/> 34	Smart Assign alarm	Red	Yellow
<input type="checkbox"/> 40	Time Limit/3Shift	Light Blue	Black
<input type="checkbox"/> 41	Time Limit/3Shift Open(Free)	Green	Black
<input type="checkbox"/> 42	Time Limit/3Shift Close(Free)	Blue	Black
<input type="checkbox"/> 44	Master Card Close	Blue	Black
<input type="checkbox"/> 45	Master Card Open	Blue	Black

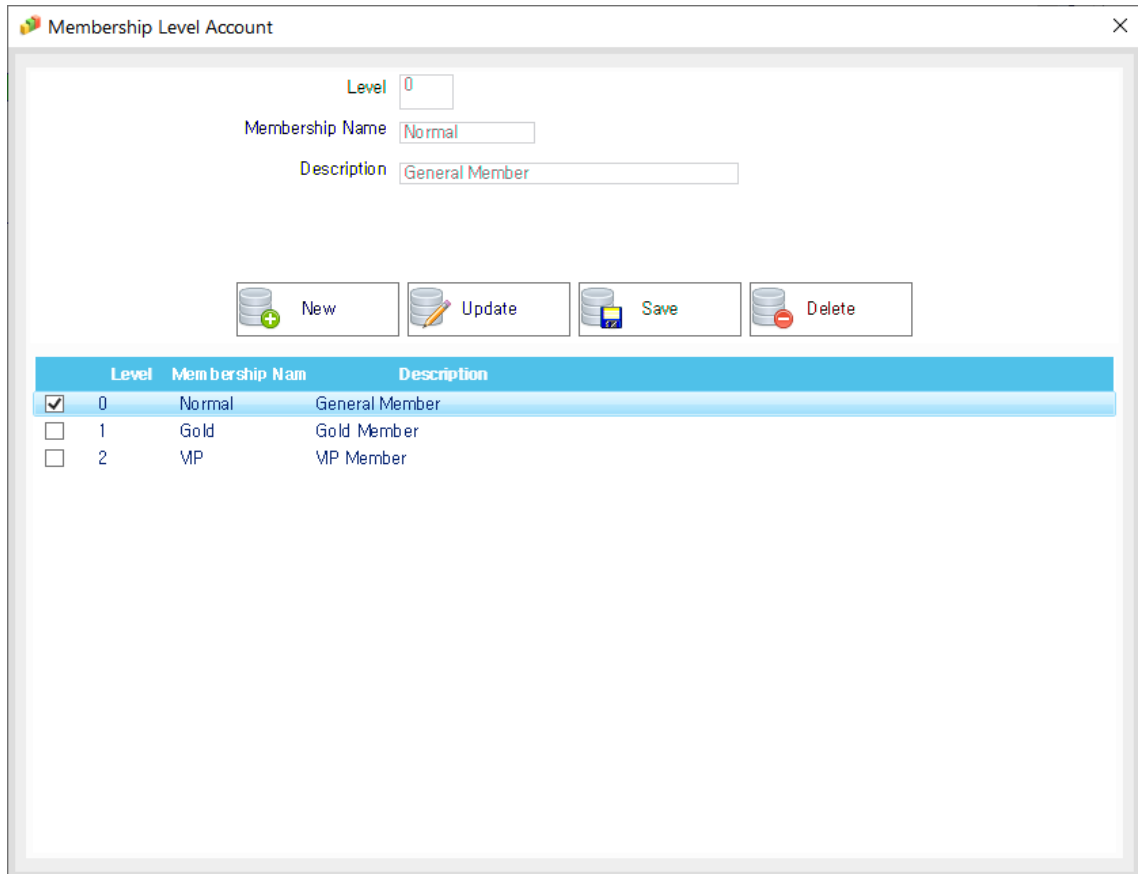
- ① Click 'New' button to enter new information
- ② Input the following items and click 'Save' button to save the entered information.

Item	Description
No.	Input status number
Name	Input the name of lock status
Background Color	Select background color of lock icon for the status
Foreground Color	Select foreground color of lock icon for the status

- ③ If you want to update the color of the lock's status, select the lock status from the table and click 'Update'. button to activate the input boxes. Input the updated information and click 'Save' button to update.
- ④ If you want to delete, select the lock status from the list and click 'Delete' button to delete.

(8) Membership Level

A menu for managing membership levels. Different membership levels can be managed here, and you can select the membership level when you add member account.



Level	Membership Nam	Description
<input checked="" type="checkbox"/> 0	Normal	General Member
<input type="checkbox"/> 1	Gold	Gold Member
<input type="checkbox"/> 2	VP	VP Member

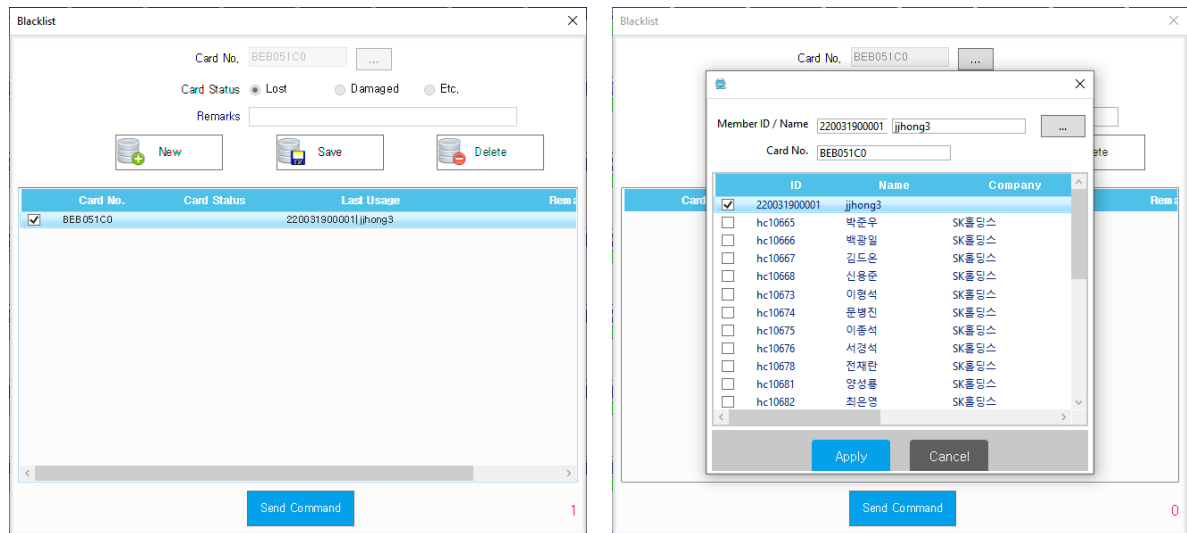
- ① Click 'New' button to enter new information.
- ② Input the following items and click 'Save' button to save the entered information.

Item	Description
Level	Input membership level number
Membership Name	Input the name of membership level
Description	Memo for membership level

- ③ If you want to update the information, select the membership level account from the list and click 'Update' button to activate the input boxes. Input the updated information and click 'Save' button to save it.
- ④ If you want to delete, select the account from the list and click 'Delete' button to delete it.

(9) Blacklist

A menu for managing blacklist. If a membership card is lost or damaged, you can add the card on blacklist and make nobody can use it. After registering, you can send Card Blocking command on the assigned lock from Lock Control on the right side of monitoring screen.



- ① Click 'New' button to enter new information.
- ② Input the following items and click 'Save' button to save the entered information.

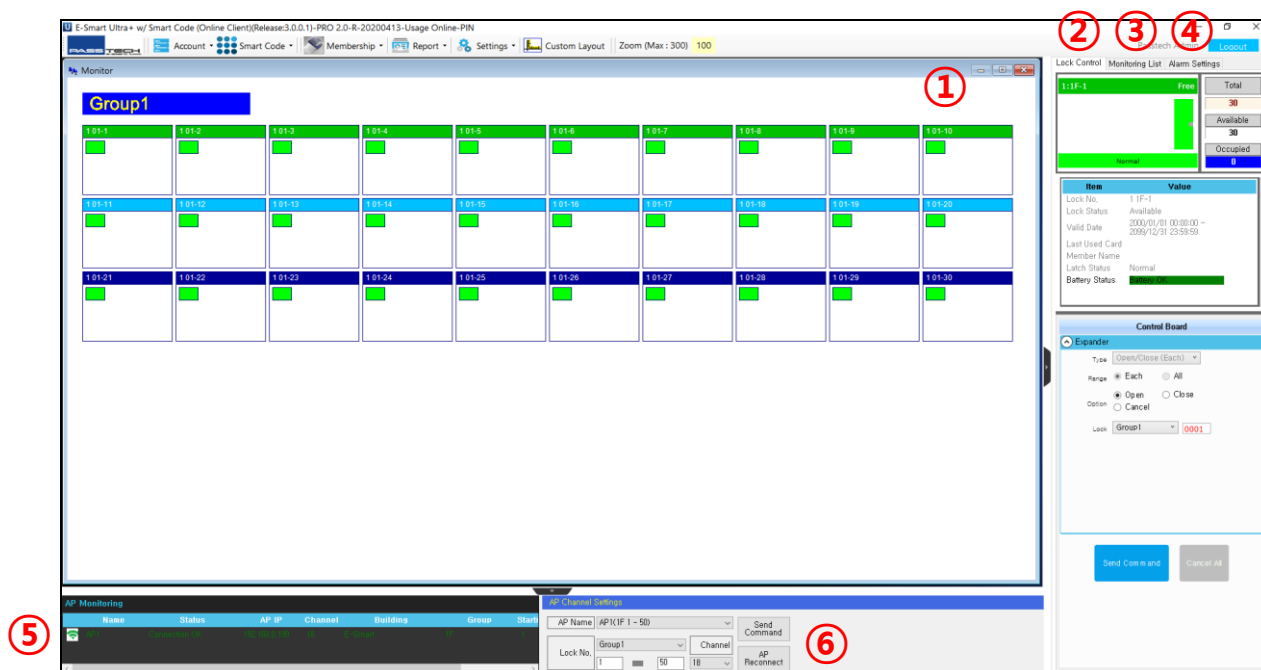
Item	Description
Card No.	Click '...' button to open Member search window and search ID or name of the member who lost or damaged its card Select the user information from the list below and click 'Apply'
Card Status	Select between Lost and Damaged depending on the situation
Remarks	Memo for the card

- ③ If you want to delete, select the BL account from the list and click 'Delete' button to delete.

5. Monitoring

1) Screen Description

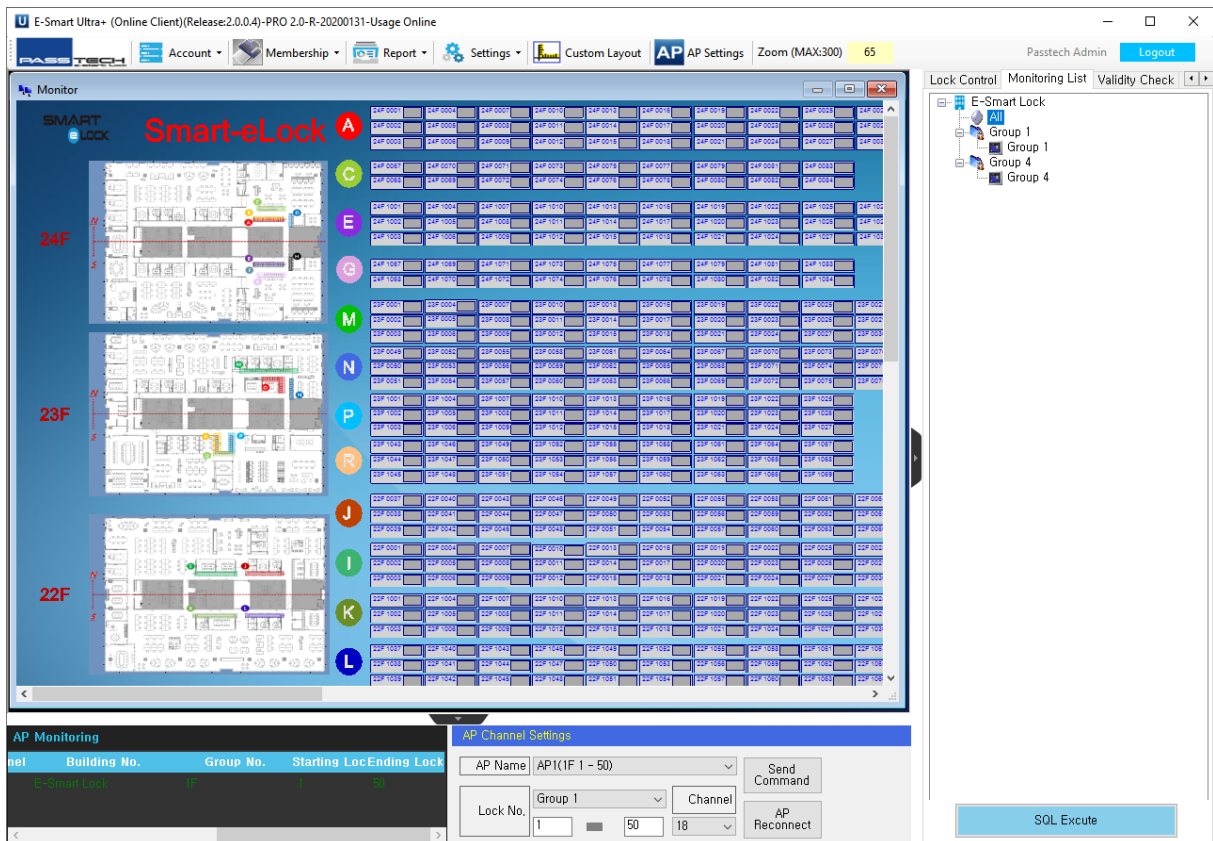
To see lock status in monitoring, you must register all accounts in Account menu first.



①	Monitoring Layout
②	Lock Control
③	Monitoring List
④	Alarm Settings
⑤	AP Connection Monitoring
⑥	AP Channel / Lock Setting

2) Full Monitoring

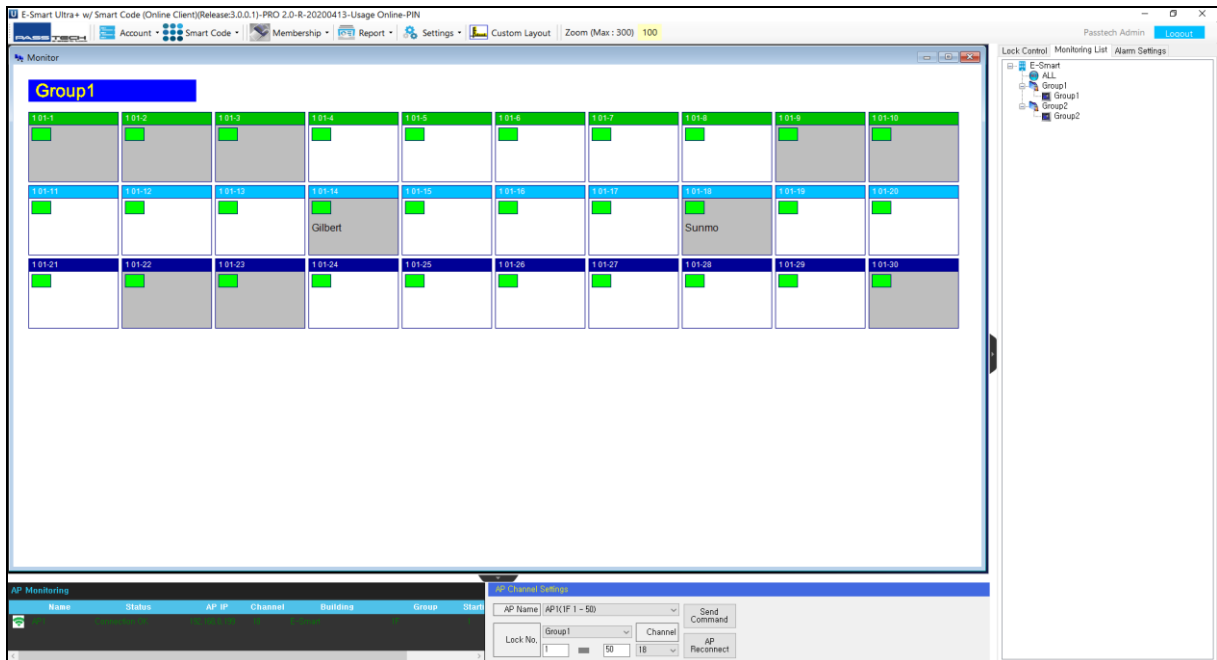
You can monitor all locks in whole building which are registered in Locker Account



The screenshot displays the E-Smart Ultra+ (Online Client) software interface, version 2.0.0.4, showing a full monitoring view of locks across multiple floors (22F, 23F, 24F). The interface includes a top menu bar with options like Account, Membership, Report, Settings, Custom Layout, AP Settings, and Zoom (MAX:300). The main area shows a grid of lock status indicators, color-coded by floor and lock type. A sidebar on the right lists lock groups (Group 1, Group 4) and provides a 'Lock Control' panel with buttons for 'Send Command', 'AP Reconnect', and 'SQL Execute'. The bottom section contains 'AP Monitoring' and 'AP Channel Settings' tabs, with the 'AP Channel Settings' tab showing fields for AP Name, Group No., Lock No., and Channel.

3) Floor Monitoring

You can monitor status and information of each lock in different group(floor) which are registered in Locker Account.



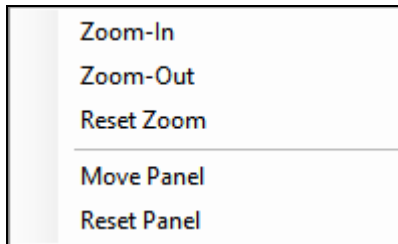
NOTE

Double Click '▶' and '▲' buttons to expand the display layout to full size.

4) Basic Control Commands

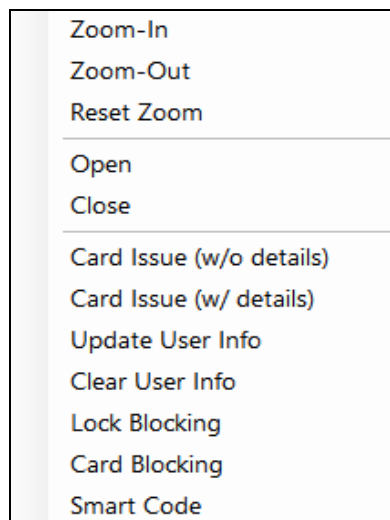
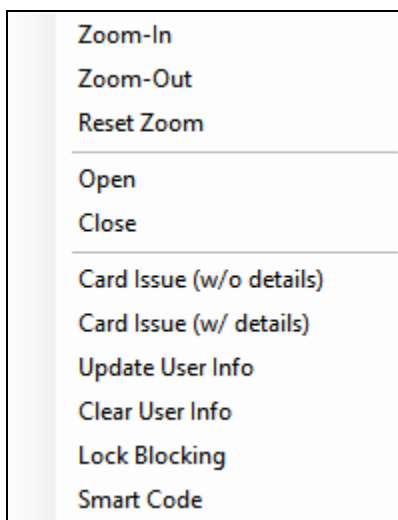
When you right-click in Layout Monitoring, two control menus appear as follows.

(1) When you right-click on wallpaper.



Layout	Description
Zoom-In	Expand Layout
Zoom-Out	Reduce Layout
Reset Zoom	Layout to original size
Move Panel	Drag to move
Reset Panel	Back to original state

(2) When you right-click on lock icon.



- On available lock

- On occupied lock

Layout	Description
Zoom-In	Expand Layout
Zoom-Out	Reduce Layout
Reset Zoom	Layout to original size
Lock Control	Description
Open	Open the selected lock Keep the lock opened on Free mode Close the lock automatically after a set latch time on Assign mode
Close	Close the selected lock Keep the lock closed on Free mode and Assign mode
Card Control	Description
Card Issue (w/o details)	Issue a membership card for the lock without user details
Card Issue (W/ details)	Issue a membership card for the lock with user details
Update User Info	Change the assigned user password or card
Clear User Info	Clear assigned user information on the lock
Lock Blocking	Block/Unblock the lock and make it as occupied or available
Card Blocking	Block the assigned card and add it on Blacklist account
Smart Code	Generate Smart Code for the lock

5) Lock Control

You can see status of each lock and control it. Control items have the process of Open/Close (Each), Open/Close (All), Lock Blocking, Card Blocking and Clear User Information.

Lock Control
Monitoring List
Alarm Settings

1:1F-011
Free

Total
30
Available
25
Occupied
5

Using a card(Free-mode open)

Item	Value
Lock No.	1 1F-011
Lock Status	Occupied
Valid Date	2010/01/01 00:00:00 ~ 2099/12/31 23:59:59
Last Used Card	5ECF51C0
Member Name	
Latch Status	Using a card(Free-mode open)
Battery Status	Battery OK

Control Board

^ Expander

Type: Open/Close (Each)

Range: ☒ Each ☐ All

Option: ☒ Open ☐ Close ☐ Cancel

Lock: Group 1 0001

Send Command Cancel All

Lock Control
Monitoring List
Alarm Settings

1:1F-011
Free

Total
30
Available
25
Occupied
5

Using a card(Free-mode open)

Item	Value
Lock No.	1 1F-011
Lock Status	Occupied
Valid Date	2010/01/01 00:00:00 ~ 2099/12/31 23:59:59
Last Used Card	5ECF51C0
Member Name	
Latch Status	Using a card(Free-mode open)
Battery Status	Battery OK

Control Board

^ Expander

Type: Open/Close (Each)

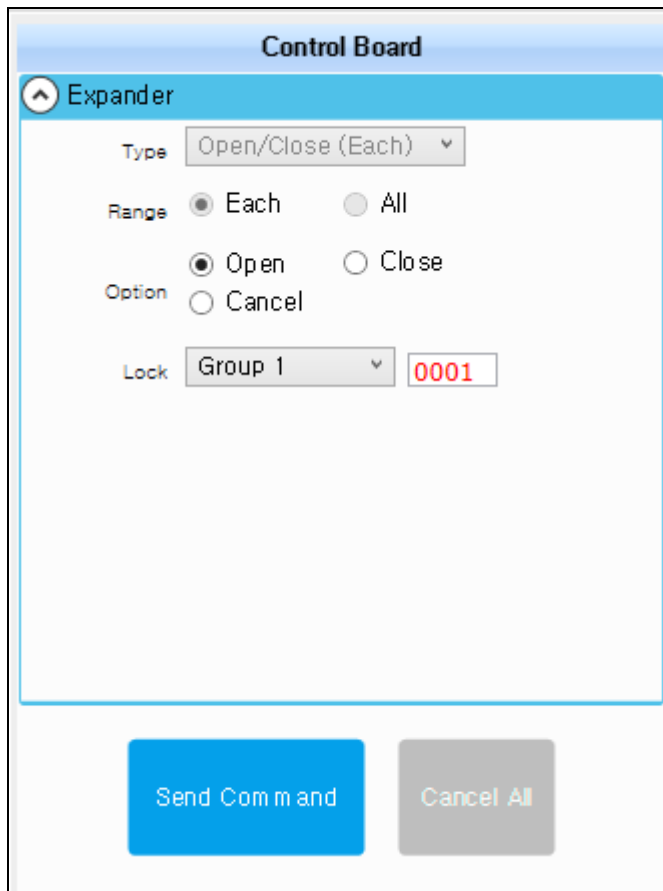
Range: ☐ Each ☒ All

Option: ☐ Open ☒ Close ☐ Cancel

Lock: Group 1 0001

Send Command Cancel All

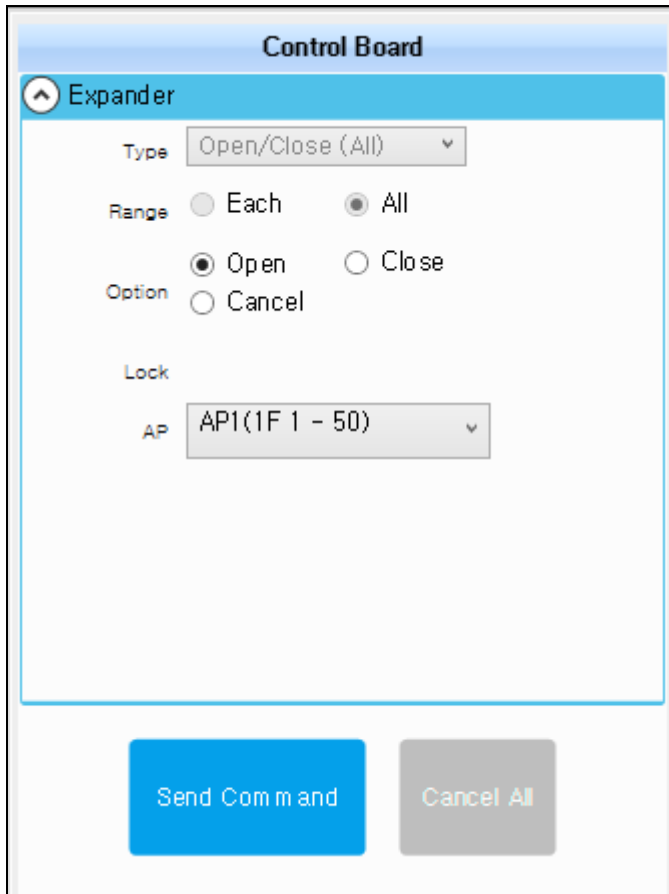
(1) Open/Close (Each)



The screenshot shows a software window titled "Control Board". Inside, there is a section labeled "Expander" with a blue header. Below the header, the "Type" dropdown is set to "Open/Close (Each)". The "Range" section has two radio buttons: "Each" (selected) and "All". The "Option" section has three radio buttons: "Open" (selected), "Close", and "Cancel". The "Lock" section has a dropdown menu set to "Group 1" and a red text input field containing "0001". At the bottom of the window, there are two buttons: "Send Command" (blue) and "Cancel All" (grey).

- ① Choose a lock which you want to open/close in layout.
- ② Select 'Open/Close (Each)' in 'Control Items' combo box on the right side of the screen.
- ③ Set 'Open' or 'Close' command as you want.
- ④ Check if the chosen lock and the group(floor) are correct.
- ⑤ Press 'Send Command' button.
- ⑥ If you want to cancel the command already sent to AP, check 'Cancel' in option and click 'Send Command' button.
- ⑦ 'Cancel All' button is for cancelling commands accidentally or wrongly sent to locks.

(2) Open/Close (All)



Control Board

Expander

Type: Open/Close (All)

Range: ☐ Each ☒ All

Option: ☒ Open ☐ Close

☐ Cancel

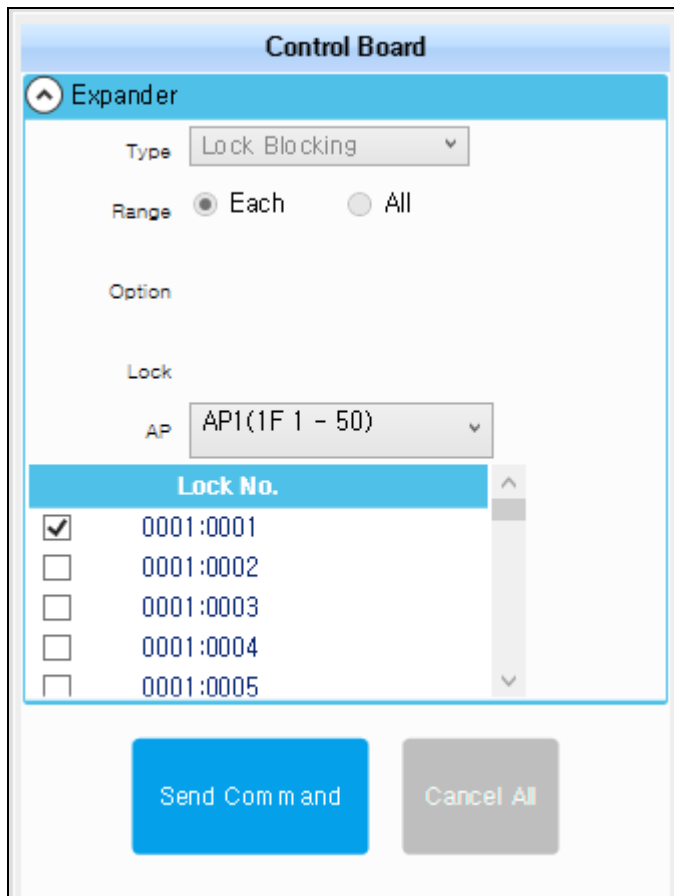
Lock

AP: AP1(1F 1 - 50)

Send Command Cancel All

- ① Select 'Open/Close All' in 'Control Items' combo box on the right side of the screen.
- ② Set 'Open' or 'Close' command as you want.
- ③ Select whether to control each AP or entire AP in 'AP' selection.
- ④ Press 'Send Command' button.
- ⑤ If you want to cancel the command already sent to AP, check 'Cancel' in option and click 'Send Command' button.
- ⑥ 'Cancel All' button is for cancelling commands accidentally or wrongly sent to locks.

(3) Lock Blocking



Control Board

Expander

Type: Lock Blocking

Range: ☒ Each ☐ All

Option:

Lock:

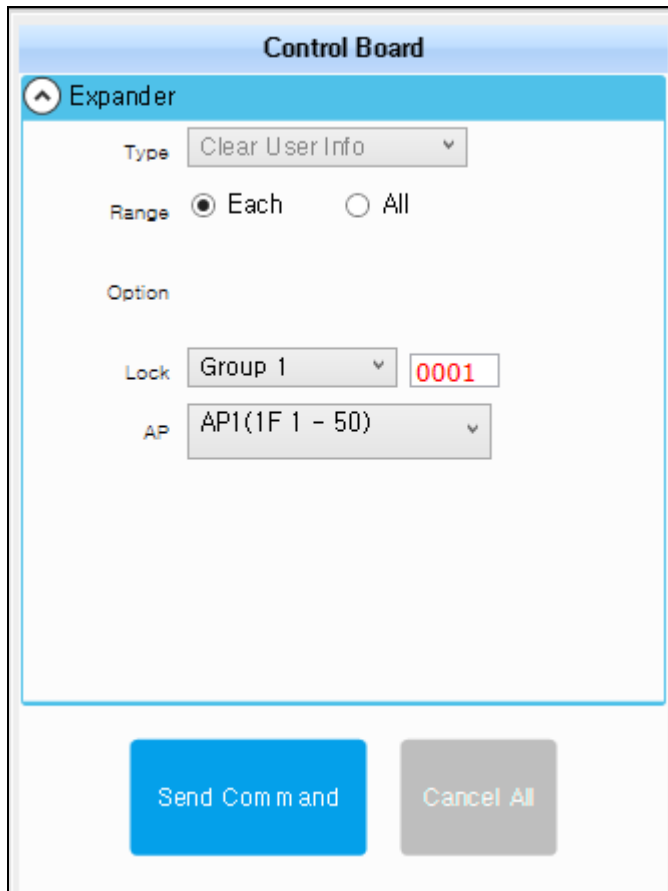
AP: AP1(1F 1 - 50)

	Lock No.
<input checked="" type="checkbox"/>	0001:0001
<input type="checkbox"/>	0001:0002
<input type="checkbox"/>	0001:0003
<input type="checkbox"/>	0001:0004
<input type="checkbox"/>	0001:0005

Send Command Cancel All

- ① Select 'Lock Blocking' in 'Control Items' combo box on the right side of the screen.
- ② Select AP and lock which you want to make block.
- ③ Press 'Send Command' button to block the selected lock.
- ④ If you want to unblock it, uncheck the lock from the list, and press 'Send Command' button.
- ⑤ 'Cancel All' button is for cancelling commands accidentally or wrongly sent to locks.

(4) Clear User Info

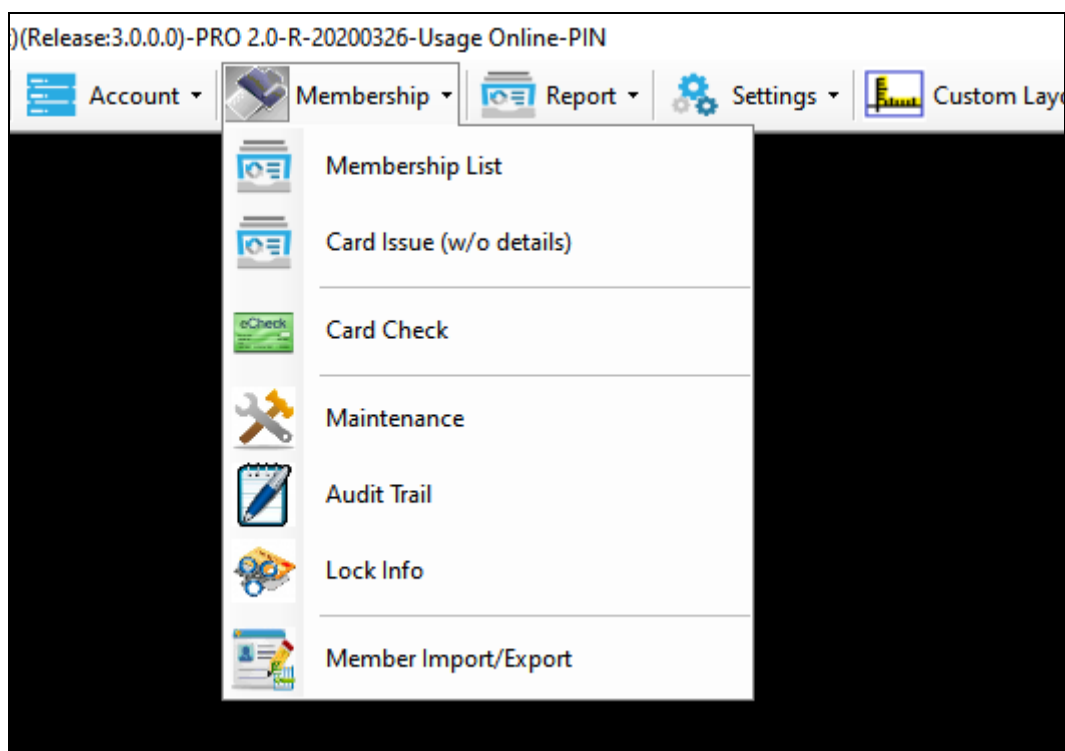


The screenshot shows a software window titled "Control Board". Inside, there is an "Expander" section with a plus icon. Below the expander, the "Type" dropdown is set to "Clear User Info". The "Range" section has two radio buttons: "Each" (selected) and "All". The "Option" section contains a "Lock" dropdown set to "Group 1" and a text field containing "0001". Below that, the "AP" dropdown is set to "AP1(1F 1 - 50)". At the bottom of the window, there are two buttons: "Send Command" (blue) and "Cancel All" (grey).






- ① Select 'Clear User Info' in 'Control Items' combo box on the right side of the screen.
- ② Select a group, lock number and AP that you want to clear saved user information in.
- ③ Press 'Send Command' button.
- ④ 'Cancel All' button is for cancelling commands accidentally or wrongly sent to locks.

6. Membership

1) Menu List



2) Main Item Description

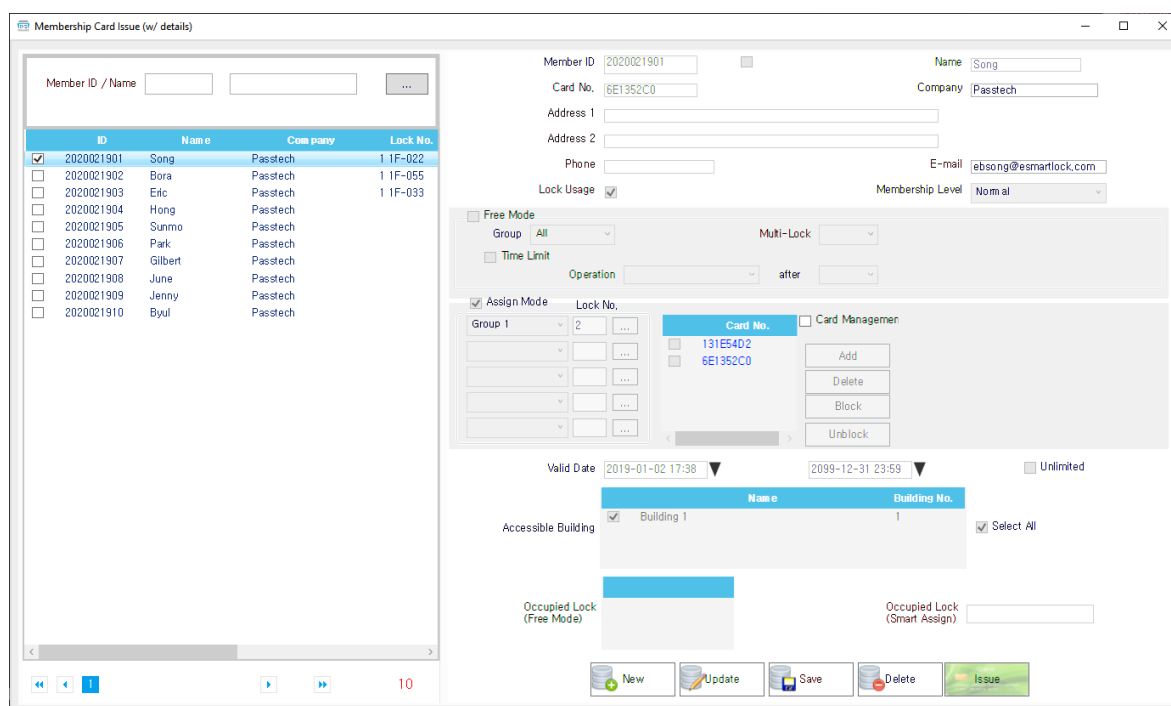
Button	Description
 New	Button to enter new information
 Update	Button to modify information
 Save	Button to save entered information
 Delete	Button to delete specific data of stored information
 Issue	Button to issue a card

3) Membership Management

(1) Membership List

A menu for registering membership information and issuing membership(user) cards. You can manage information of each member and issue cards to them with the period of validity.

- If set up for STD Mode (Standard Mode)



- ① Click 'New' button and enter information of the member (from ID to E-mail address).
ID is automatically created when you click 'New' button, but if you want to change it to other numbers, it is also possible.
Card No. will be filled automatically after you issue a membership card to the member. If you already have a specific card number you want to assign to the member, you can manually put it in the 'Card No.' blank box.
- ② Check the 'Lock Usage' checkbox if you want to give locker usage permission to the member, and choose 'Membership Level'.
- ③ Select the lock mode between 'Free' and 'Assign' depending on the operation scenario of the site and operation mode you set on the locks.
 - Free
Choose an accessible lock group for the member (Issued membership card is only available on locks in selected group), and set 'Multi-Lock' count as you wish (Up to 5).

Check the 'Time Limit' checkbox if you want to make a lock open/close automatically after a set time from last card usage.

- Assign

Choose an accessible lock group and input a lock number to assign the membership card (Up to 5). You can assign as much as multi-user count you set on the lock. If you don't choose a lock number and issue a membership card, the first lock you read the issued card will be assigned (Pre-Assign mode).

④ Set a valid date and time.

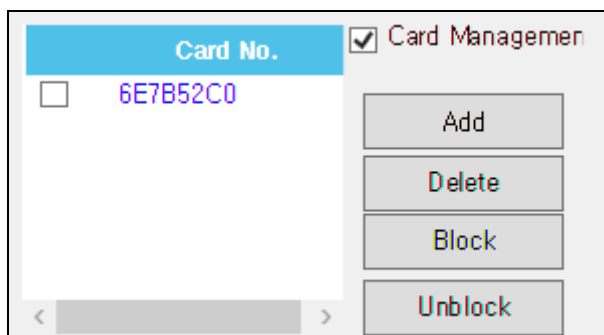
Check the 'Unlimited' checkbox if you want to issue a membership card without valid date.

⑤ Select a building account to access (Default: Select all).

⑥ Click 'Save' button to save the entered information.

⑦ To update the information, select the member from the list, check its checkbox, click 'Update' button to activate input boxes, modify the information, and click 'Save' button to save it.

- Card Management



The serial number of issued membership card will be shown in the box above.

If you want to issue more membership cards to the member, check the 'Card Management' checkbox and click 'Issue additional cards'.

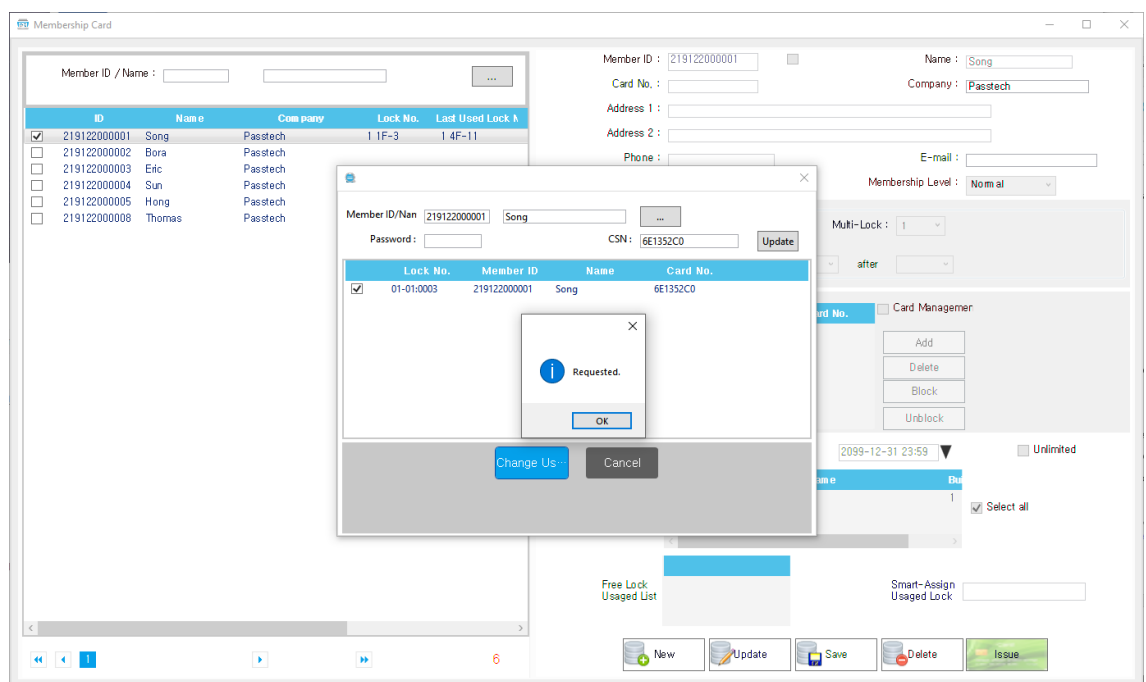
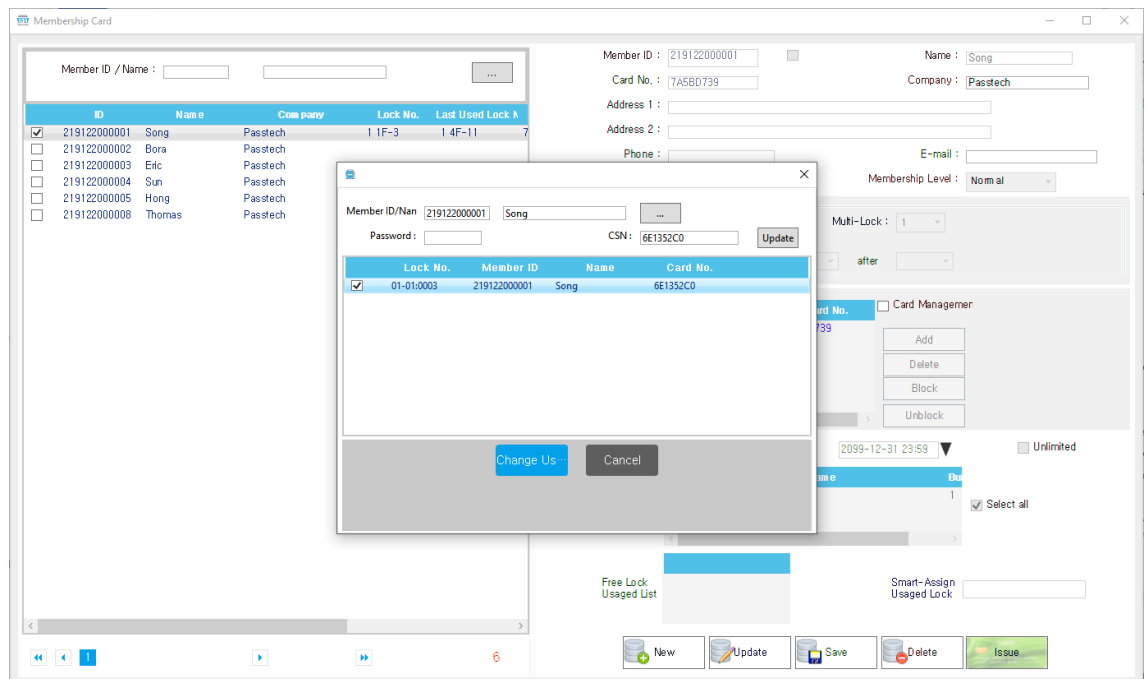
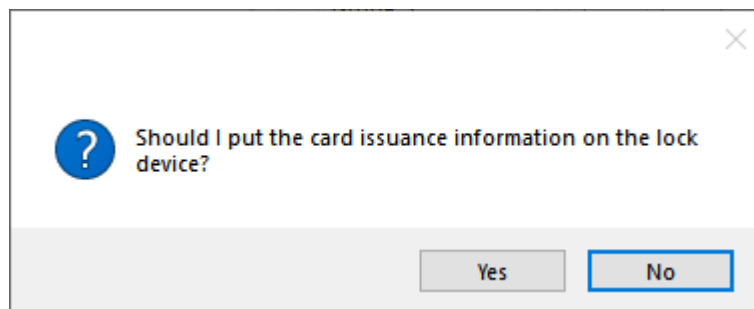
If you want to delete the issued membership cards, check 'Card Management' checkbox, select card numbers you want to delete from the list, and click 'Delete selected cards'.

You can also block/unblock the issued membership cards selecting card numbers from the list and clicking 'Block' or 'Unblock' button.

⑧ If you want to delete membership information, select a member to delete from the list, check its checkbox, and click 'Delete' button.

⑨ If you want to issue a membership card to a member, select a member from the list, check its checkbox, and click 'Issue' button after putting a blank user card on DE620(Card reader).

⑩ After issuing the card, you can send a command to the lock to get issued card information.



- CSN Mode

Everything is same but the issue button.

Instead of Issue button, it has 'CSN Registration' button.

Membership Card Issue (w/ details)

Member ID Card No. Name

Address 1 Company

Address 2

Phone E-mail

Lock Usage ☐ Membership Level

☐ Free Mode

Group Multi-Lock

☐ Time Limit

Operation Lock up after

☐ Assign Mode

Lock No.

Card No. Card Management

Add

Delete

Block

Unblock

Valid Date

☐ Unlimited

Accessible Building

Occupied Lock (Free Mode)

Occupied Lock (Smart Assign)

CSN Registration

Just put the card you would like to add on the locks, and click 'CSN Registration' button.

It will show a pop-up sign like below.

Now this card is available for the CSN mode locks.

Membership Card Issue (w/ details)

Member ID / Name

220090800001

...

ID	Name	Com pany	Lock No.
<input checked="" type="checkbox"/>	220090800001	Elle	PassTech

Member ID

2200902300001

☐

Name

Test

Card No.

Company

PassTech

Address 1

Address 2

Phone

E-mail

Lock Usage

☒

Membership Level

☒ Free Mode

Group

All

Multi-Lock

1

☐ Time Limit

Operation

after

☒ Assign Mode

Lock No.

Card No.

☐ Card Manager

Add

Delete

Block

Unblock

Valid Date

2010-01-01 00:00

2099-12-31 23:59

☒ Unlimited

Accessible Building

☒

office1

1

☒ Select All

Occupied Lock (Free Mode)

Occupied Lock (Smart Assign)

New

Update

Save

Delete

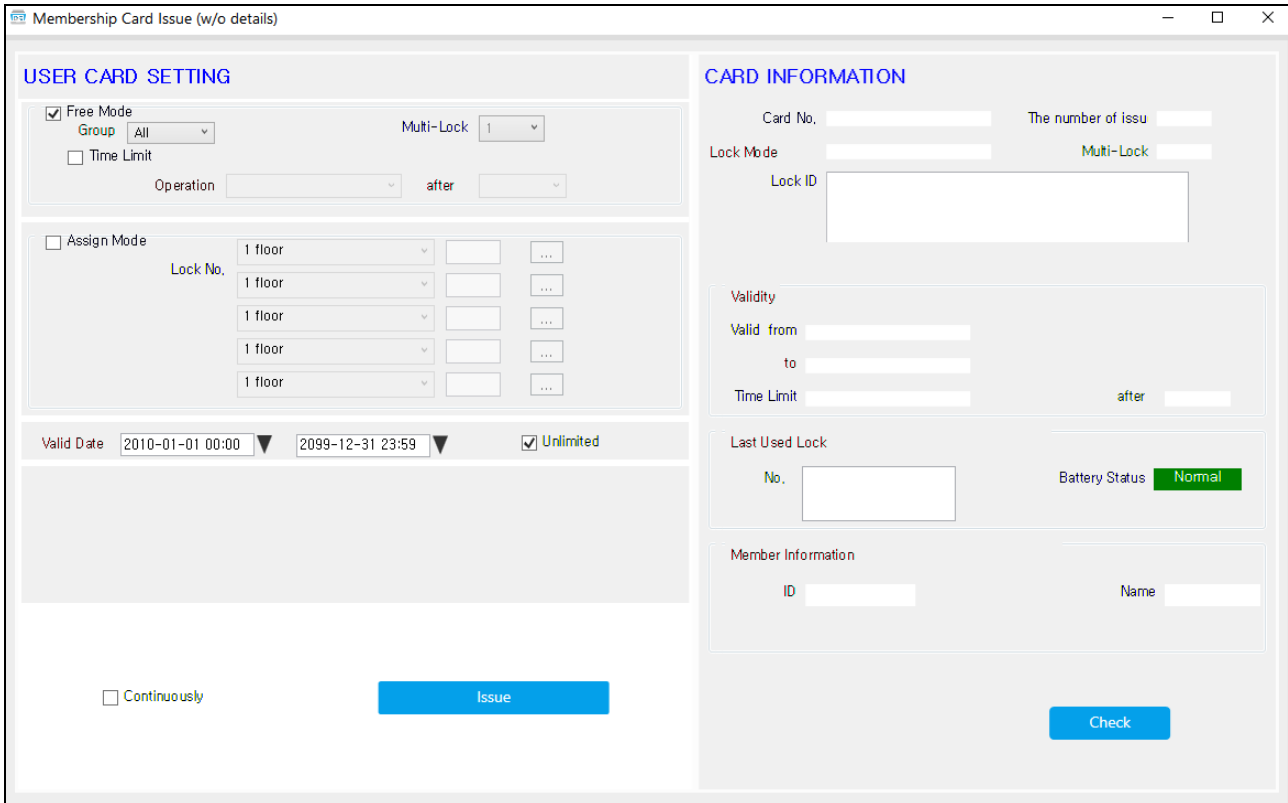
CSN Registration

Card registration is complete.

OK

(2) Card Issue (w/o details)

A menu for issuing membership cards without registering any information of members.



- ① Select the lock mode between 'Free' and 'Assign' depending on the operation scenario of the site and operation mode you set on the locks.
 - Free

Choose an accessible lock group for the member (Issued membership card is only available on locks in selected group), and set 'Multi-Lock' count as you wish (Up to 5). Check the 'Time Limit' checkbox if you want to make a lock open/close automatically after a set time from last card usage.
 - Assign

Choose an accessible lock group and input a lock number to assign the membership card (Up to 5). If you don't choose a lock number and issue a membership card, the first lock you read the issued card will be assigned (Pre-Assign mode).
- ② Set a valid date and time.

Check the 'Unlimited' checkbox if you want to issue a membership card without valid date.

- ③ Put a blank user card on DE620(Card Reader) and click 'Issue' button to issue a membership card. If you want to issue multiple membership cards at once, check the 'Continuously' checkbox.
- ④ To check the information of the issued membership card, put the membership card on DE620(Card Reader) and click 'Check' button.

Membership Card Issue (w/o details)

USER CARD SETTING

☒ Free Mode

Group All

Multi-Lock 1

☐ Time Limit

Operation after

☐ Assign Mode

Lock No.

1 floor

1 floor

1 floor

1 floor

1 floor

Valid Date 2010-01-01 00:00 2099-12-31 23:59 ☒ Unlimited

☐ Continuously

Issue

CARD INFORMATION

Card No. 4328E6A5

The number of issu 1

Lock Mode Free & Assign Mode Multi-Lock 5

Lock ID

Free 1 1F-0003

Free 1 1F-0001

Assign 1 1F-0003

Validity

Valid from 6/25/2020 4:04:50 PM

to 12/31/2070 11:59:59 PM

Time Limit after

Last Used Lock

No.

Free :1 1F-0004

Assign :1 1F-0001

Battery Status Battery OK

Member Information

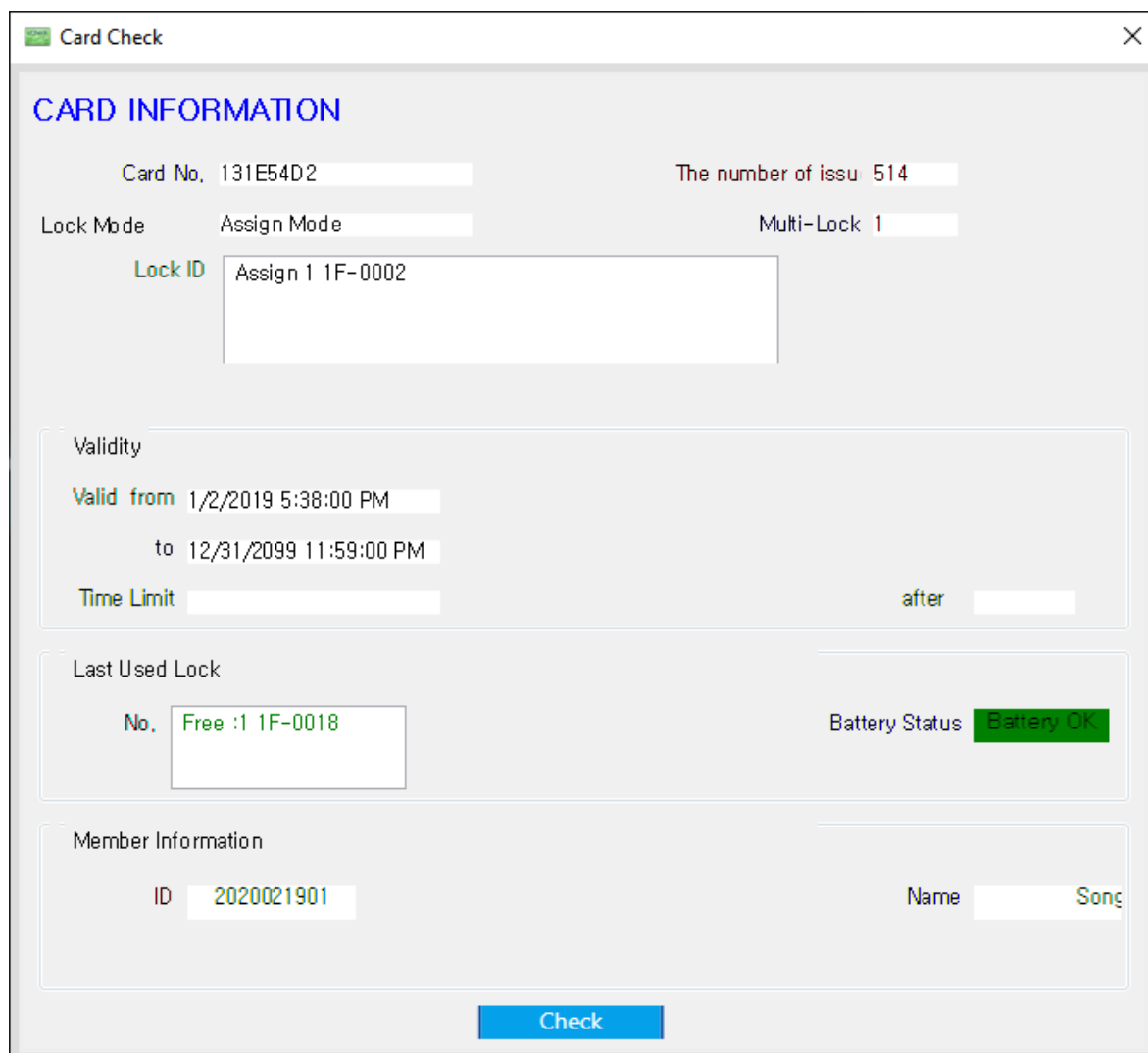
ID 220062300002

Name Elle

Check

(3) Check Card information

A menu for checking information of the issued membership cards.



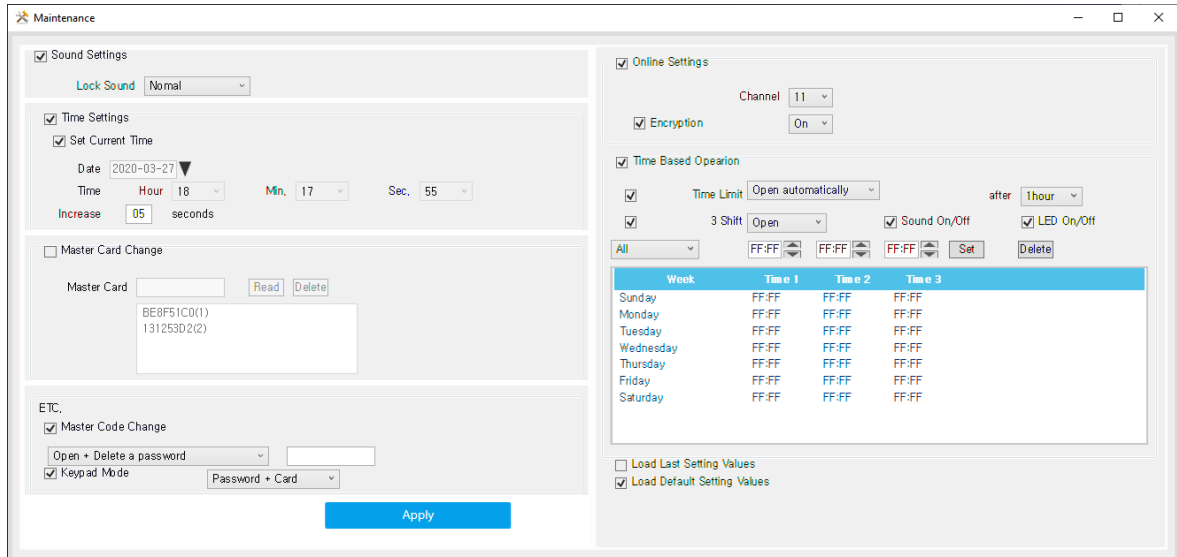
The screenshot shows a window titled "Card Check" with a close button (X) in the top right corner. The window contains the following information:

- CARD INFORMATION** (Section Header)
- Card No. 131E54D2
- The number of issu 514
- Lock Mode Assign Mode
- Multi-Lock 1
- Lock ID Assign 1 1F-0002
- Validity** (Section Header)
 - Valid from 1/2/2019 5:38:00 PM
 - to 12/31/2099 11:59:00 PM
 - Time Limit after
- Last Used Lock** (Section Header)
 - No. Free :1 1F-0018
 - Battery Status Battery OK
- Member Information** (Section Header)
 - ID 2020021901
 - Name Song
- Check** (Button)

- ① Put an issued membership card on DE620(Card Reader).
- ② Click 'Check' button to check the information of the card.

(4) Maintenance

A menu for issuing Maintenance Card. Maintenance Card has various functions such as Time Setting, Master Card Change, Time Limit, 3 Shift, etc. for maintaining locks.



The screenshot shows the 'Maintenance' window with several sections:

- Sound Settings:** Includes a 'Lock Sound' dropdown set to 'Normal'.
- Time Settings:** Includes a 'Set Current Time' checkbox, a date picker (2020-03-27), and time fields for Hour (18), Min (17), and Sec (55). There is also an 'Increase' button and a 'seconds' label.
- Master Card Change:** Includes a 'Master Card' input field with a 'Read' button and a 'Delete' button. Below it, a list of master cards is shown: BE8F51C0(1) and 131253D2(2).
- ETC.:** Includes a 'Master Code Change' checkbox, an 'Open + Delete a password' dropdown, and a 'Keypad Mode' checkbox with a 'Password + Card' dropdown.
- Online Settings:** Includes an 'Encryption' checkbox set to 'On', a 'Channel' dropdown set to '11', and a 'Time Based Operation' section with a 'Time Limit' dropdown set to 'Open automatically' and an 'after' dropdown set to '1 hour'. It also has checkboxes for '3 Shift', 'Sound On/Off', and 'LED On/Off'. Below this is a table with columns 'Week', 'Time 1', 'Time 2', and 'Time 3'.

Week	Time 1	Time 2	Time 3
Sunday	FF:FF	FF:FF	FF:FF
Monday	FF:FF	FF:FF	FF:FF
Tuesday	FF:FF	FF:FF	FF:FF
Wednesday	FF:FF	FF:FF	FF:FF
Thursday	FF:FF	FF:FF	FF:FF
Friday	FF:FF	FF:FF	FF:FF
Saturday	FF:FF	FF:FF	FF:FF

① Set all options referring to the descriptions below.

- Sound Settings



The close-up shows the 'Sound Settings' section with the 'Sound Settings' checkbox checked and the 'Lock Sound' dropdown set to 'Normal'.

- ① Select the 'Sound Settings' checkbox to activate.
- ② Select a sound type (Normal, Small or Disable) on your preference.

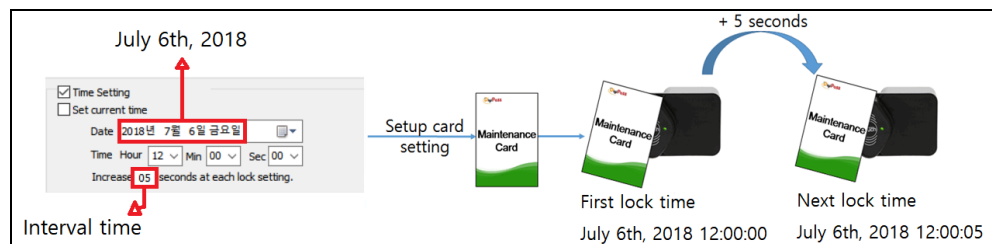
- Time Settings



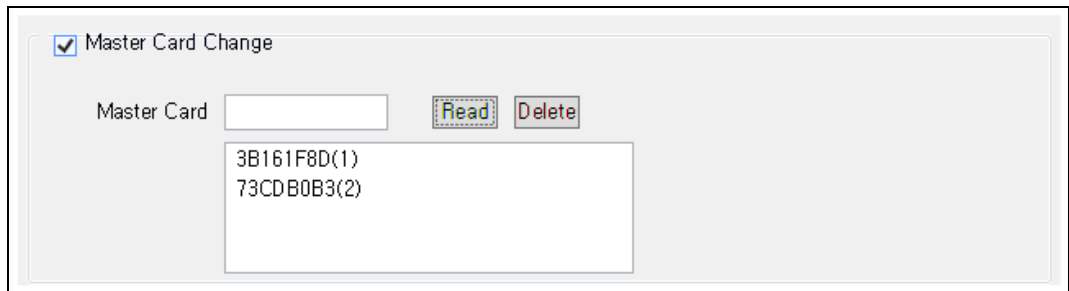
The close-up shows the 'Time Settings' section with the 'Time Settings' checkbox checked and the 'Set Current Time' checkbox checked. The date is set to 2020-03-27, and the time is set to Hour 18, Min 17, and Sec 55. There is also an 'Increase' button and a 'seconds' label.

- ① Select the 'Time Settings' checkbox to activate.

- ② Select the 'Same time as the current time' checkbox to transmit the current time information from PC to Maintenance Card at the moment of issuing.
- ③ If you want to set the lock time as you wish, uncheck the 'Same time as the current time' checkbox and set time.
- ④ Input the interval time between each lock setting to make the time for each lock be nearly synchronized. The input time will be automatically added when you scan Maintenance card on the locks.

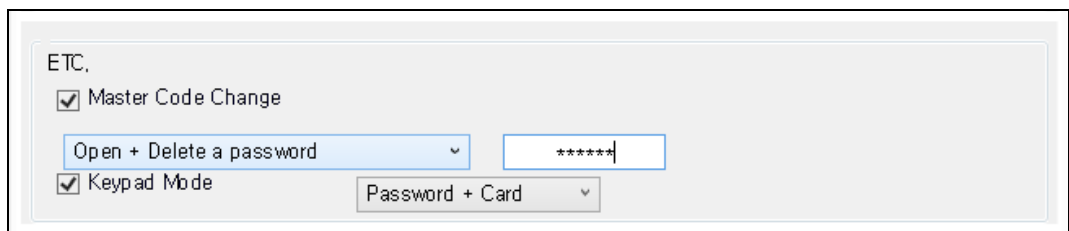


- Master Card Change

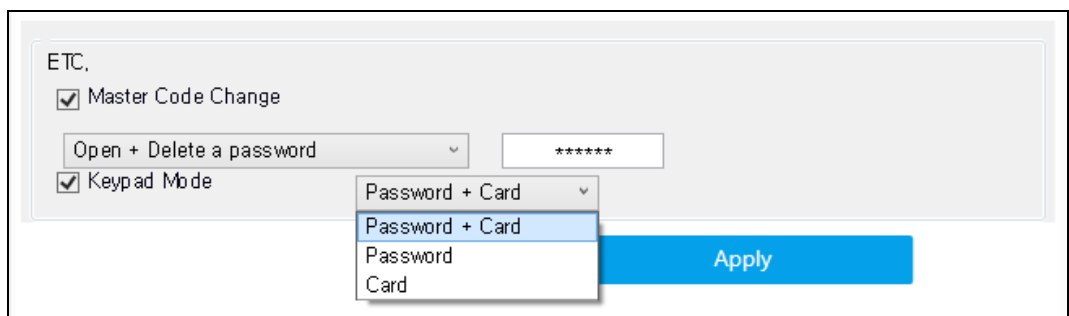


- ① Select 'Master Card Change' checkbox to activate.
- ② Put a Master Card 1 or 2 on a card reader and click 'Read' to register.
(Master 1 = (1), Master Card 2 = (2))
- ③ If you want to delete a Master Card, select a card you want to delete in box and click 'Delete'

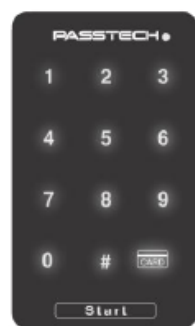
- ETC. (Master Code Change)



- ① Select 'Master Code Change' checkbox to activate.
- ② Choose the function of Master Code and input 6-digit password.
 - Open + Delete a password
 - : Delete user information & password opening the lock like Master Card I
 - Open/Close only
 - : Open/close a lock keeping user information and password like Master Card II
- ETC. (Keypad Mode)



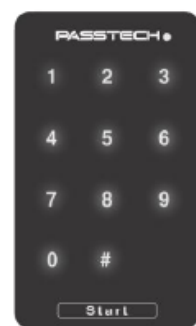
- ① Select 'Keypad Mode' checkbox to activate.
- ② Choose an operation mode.
 - Password + Card: User can use both password and RFID card
 - Password: User can use only a password
 - Card: User can use only RFID card



[PWD&CARD]



[CARD]



[PWD]

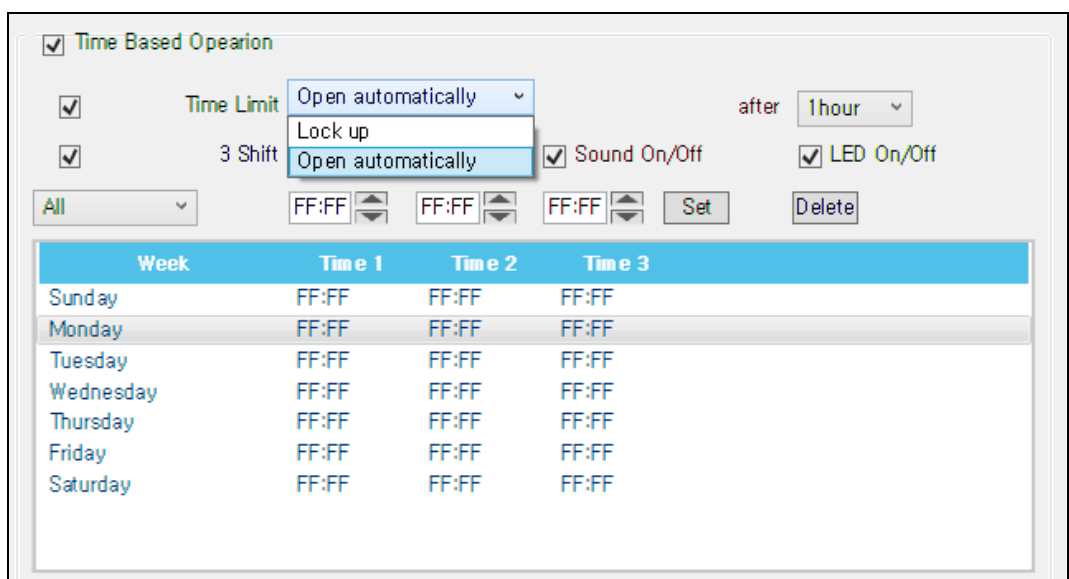
- Online Settings



- ① Check 'Online Settings' checkbox to activate.
- ② Change the setting values referring to the description below.

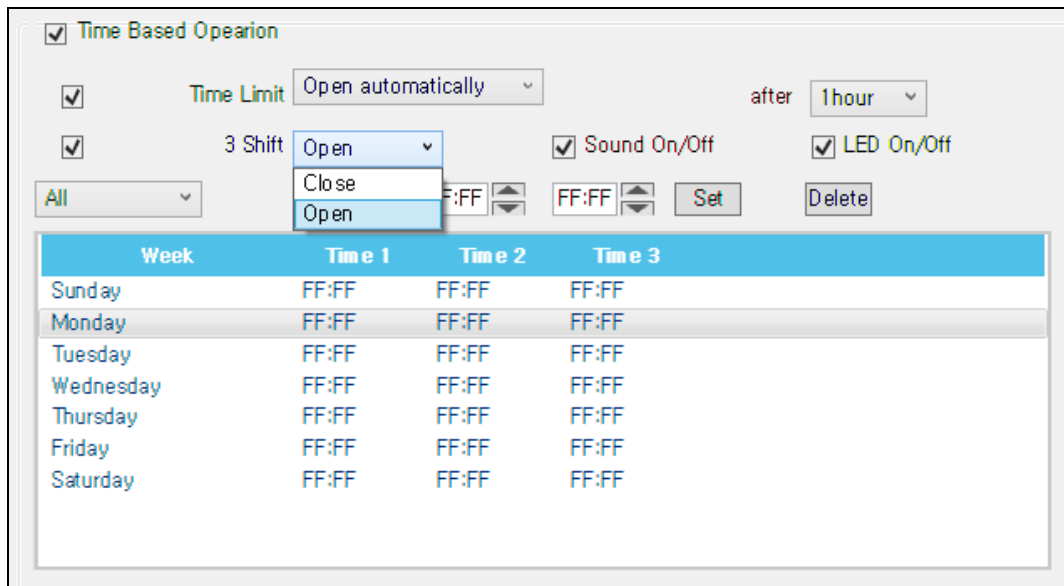
Item	Description
Channel	Channel between online locks and AP (Channel range: 11-25) If you set it 'OFF', wireless communication will be off
Encryption	Encryption On/Off

- Time Based Operation (Time Limit)



- ① Select 'Time limit' checkbox to activate (Available only in Free mode).
- ② Choose time limit operation mode.
 - Lock up: After set time, lock closes automatically
 - Open automatically: After set time, lock opens automatically
- ③ Time can be set from 1hour to 99hours.
- ④ You can set lock sound and LED lighting on your preference.

- Time Based Operation (3 Shift)



Week	Time 1	Time 2	Time 3
Sunday	FF:FF	FF:FF	FF:FF
Monday	FF:FF	FF:FF	FF:FF
Tuesday	FF:FF	FF:FF	FF:FF
Wednesday	FF:FF	FF:FF	FF:FF
Thursday	FF:FF	FF:FF	FF:FF
Friday	FF:FF	FF:FF	FF:FF
Saturday	FF:FF	FF:FF	FF:FF

- Select '3 Shift' checkbox to activate (Available only in Free mode).
 - Close: After set time, locks close
(You can open them by Master Card 1 or online lock open command)
 - Open: After set time locks open
 - Sound On/Off: Locks make sound at the set time.
 - LED On/Off: LED lamps on locks blinks at the set time.
 - Select the day of week or ALL.
 - Set the operation time and click 'SET' to save.
(00:00 means, time has not set. If you want to make lock operate at midnight, set the time as 23:59)
 - Lock will operate at the time on the day you set.
- Put a Maintenance Card on a card reader(DE620), and click 'Apply' button to issue it.
 - You can bring latest or default setting values by checking the check boxes.



(5) Audit Trail

A menu for seeing collected latest history up to 150 by Audit Trail Card.



The screenshot shows the 'Audit Trail' window with the following fields and table:

Lock No.: 1, 4F, 0001, 00 | Lock Time: 2019-12-26 14:55:16 | Lock Mode: Free Mode | Channel: 18

No.	Date/Time	Card No.	Member ID	Member Name	Lock Status
1	2019/12/05 17:47:15	4328E6A5	N/A	N/A	Door Open(by Card)
2	2019/12/05 17:47:19	4328E6A5	N/A	N/A	Door Close(by Card)
3	2019/12/05 17:53:14	42F0F045	N/A	N/A	Master Card Type1(User Card Register)
4	2019/12/05 17:54:09	42F0F045	N/A	N/A	Master Card Type1(User Card Register)
5	2019/12/11 16:35:23	03C0B0B3	N/A	N/A	Setup Card Used
6	2019/12/12 10:36:12	42F0F045	N/A	N/A	Master Card Type1(User Card Register)
7	2019/12/11 16:35:43	03C0B0B3	N/A	N/A	Setup Card Used
8	2019/12/11 16:35:55	42F0F045	N/A	N/A	Master Card Type1(User Card Register)
9	2019/12/11 16:53:24	42F0F045	N/A	N/A	Master Card Type1(User Card Register)
10	2019/12/11 16:53:38	42F0F045	N/A	N/A	Master Card Type1(User Card Register)
11	2019/12/19 16:40:43	42F0F045	N/A	N/A	Master Card Type1(User Card Register)
12	2019/12/20 10:45:00	03C0B0B3	N/A	N/A	Setup Card Used
13	2019/12/20 10:48:40	03C0B0B3	N/A	N/A	Setup Card Used
14	2019/12/20 10:49:21	03C0B0B3	N/A	N/A	Setup Card Used
15	2019/12/20 10:49:38	6E7B52C0	N/A	N/A	Door Close(by Card)
16	2019/12/20 10:49:41	6E7B52C0	N/A	N/A	Door Open(by Card)
17	2019/12/26 14:54:36	03C0B0B3	N/A	N/A	Setup Card Used
18	2019/12/26 14:54:48	60F5F045	N/A	N/A	Audit Trail Card Used

Buttons: Clear Data, Read Audit Trail Card, Save Data

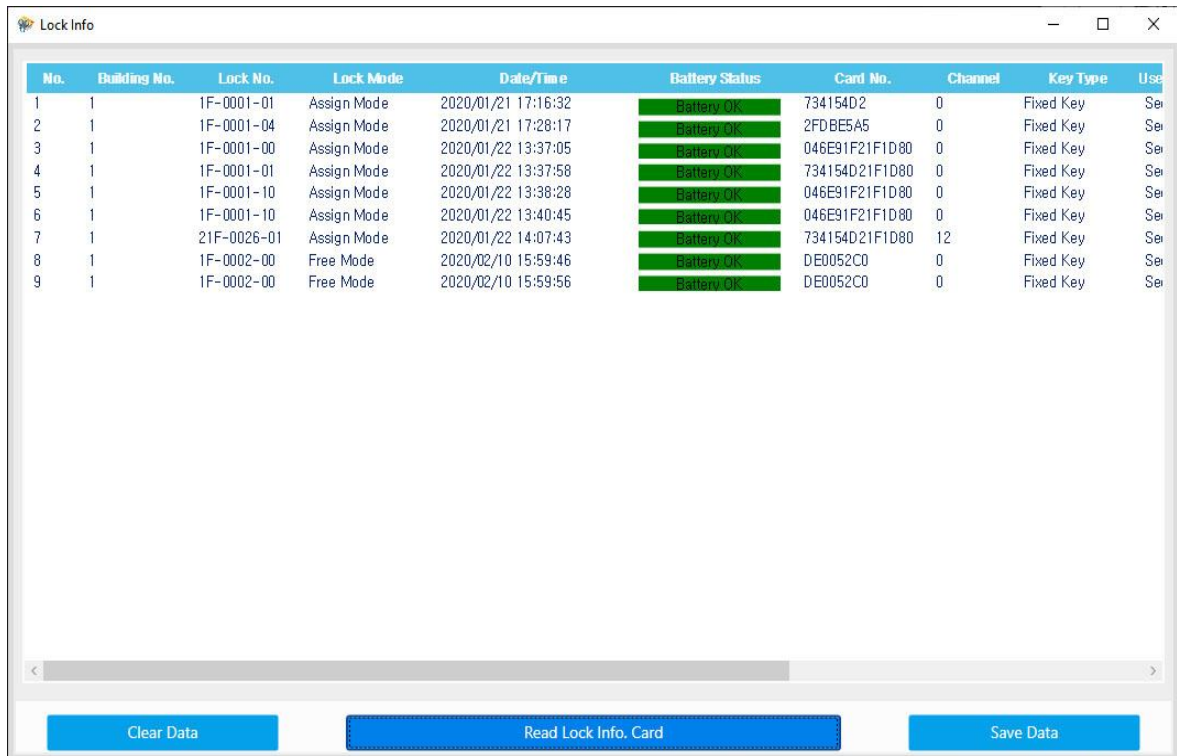
- ① Read an Audit Trail Card on the lock to collect history of lock usage.
- ② Put the Audit Trail Card on card reader(DE620) and click 'Read Audit Trail Card' button.

- Main Item Description

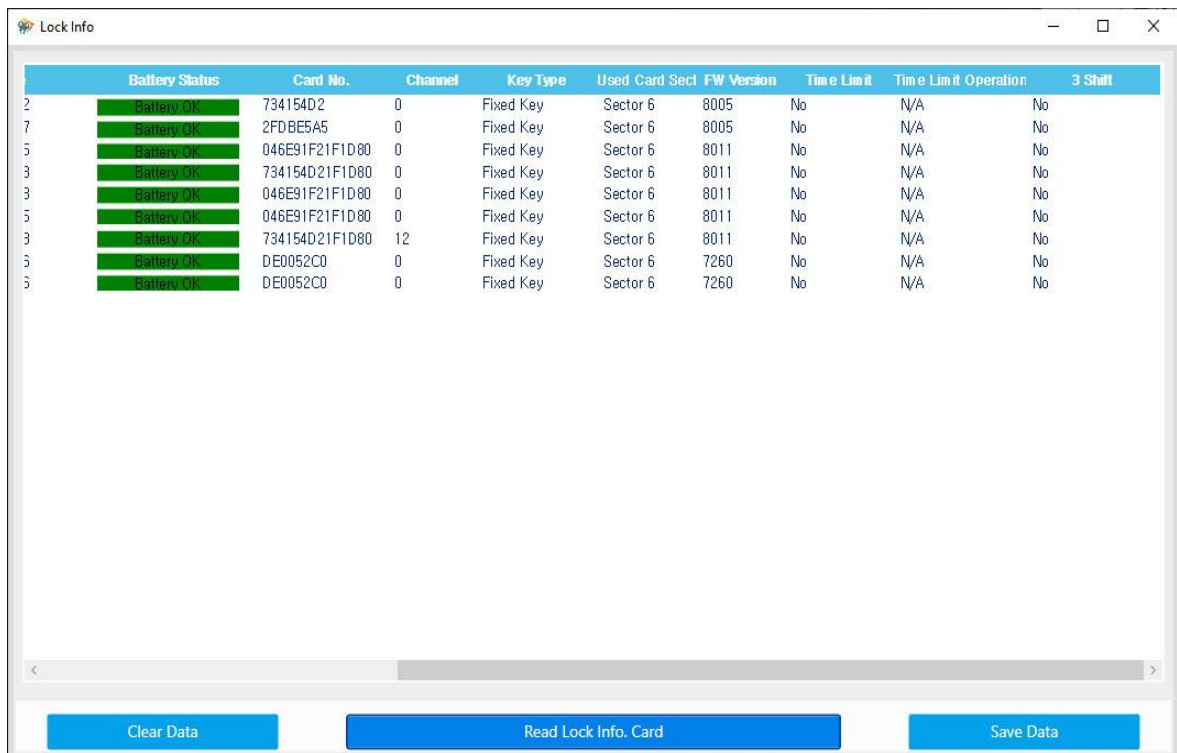
Item	Description
No.	In chronological order (Past to latest)
Date/Time	Date and time of lock usage
Card No.	CSN number of used cards
Member ID	Member ID of used cards registered in DB
Member Name	Card holder name registered in DB
Lock Status	Usage status
Clear Data	Button to clear all stored history
Read Audit Trail Card	Button to read the history collected by Audit Trail Card
Save Data	Button to save data in DB

(6) Lock Info

A menu for seeing collected lock information up to 40 by Lock Info Card.



No.	Building No.	Lock No.	Lock Mode	Date/Time	Battery Status	Card No.	Channel	Key Type	User
1	1	1F-0001-01	Assign Mode	2020/01/21 17:16:32	Battery OK	734154D2	0	Fixed Key	Se
2	1	1F-0001-04	Assign Mode	2020/01/21 17:28:17	Battery OK	2FDBE5A5	0	Fixed Key	Se
3	1	1F-0001-00	Assign Mode	2020/01/22 13:37:05	Battery OK	046E91F21F1D80	0	Fixed Key	Se
4	1	1F-0001-01	Assign Mode	2020/01/22 13:37:58	Battery OK	734154D21F1D80	0	Fixed Key	Se
5	1	1F-0001-10	Assign Mode	2020/01/22 13:38:28	Battery OK	046E91F21F1D80	0	Fixed Key	Se
6	1	1F-0001-10	Assign Mode	2020/01/22 13:40:45	Battery OK	046E91F21F1D80	0	Fixed Key	Se
7	1	21F-0026-01	Assign Mode	2020/01/22 14:07:43	Battery OK	734154D21F1D80	12	Fixed Key	Se
8	1	1F-0002-00	Free Mode	2020/02/10 15:59:46	Battery OK	DE0052C0	0	Fixed Key	Se
9	1	1F-0002-00	Free Mode	2020/02/10 15:59:56	Battery OK	DE0052C0	0	Fixed Key	Se



Battery Status	Card No.	Channel	Key Type	Used Card Sect	FW Version	Time Limit	Time Limit Operation	3 Shift
Battery OK	734154D2	0	Fixed Key	Sector 6	8005	No	N/A	No
Battery OK	2FDBE5A5	0	Fixed Key	Sector 6	8005	No	N/A	No
Battery OK	046E91F21F1D80	0	Fixed Key	Sector 6	8011	No	N/A	No
Battery OK	734154D21F1D80	0	Fixed Key	Sector 6	8011	No	N/A	No
Battery OK	046E91F21F1D80	0	Fixed Key	Sector 6	8011	No	N/A	No
Battery OK	046E91F21F1D80	0	Fixed Key	Sector 6	8011	No	N/A	No
Battery OK	734154D21F1D80	12	Fixed Key	Sector 6	8011	No	N/A	No
Battery OK	DE0052C0	0	Fixed Key	Sector 6	7260	No	N/A	No
Battery OK	DE0052C0	0	Fixed Key	Sector 6	7260	No	N/A	No

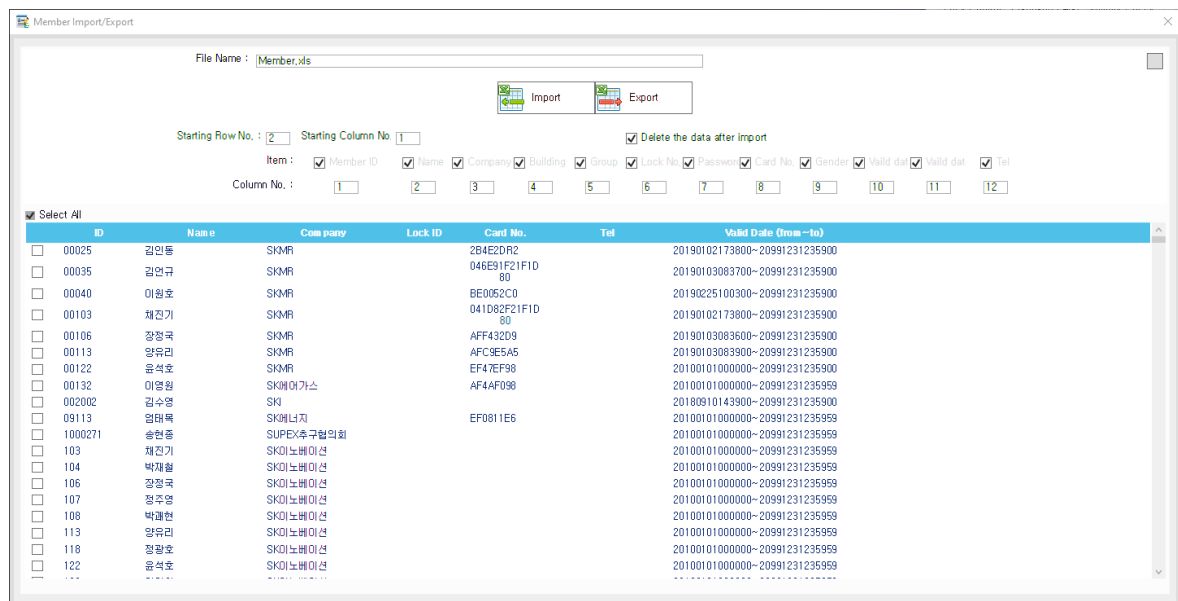
- ① Read a Lock Info Card on the lock to collect information of the lock.
- ② Put Lock Info Card on card reader(DE620) and click 'Read Lock Info Card' button to see the collected information.

- Main Item Description

Item	Description
No.	In the order that you collect it
Building No.	Building number
Lock No.	Lock number
Lock Mode	Free Mode, Assign Mode, Smart-Assign Mode
Date/Time	Date and time of lock scanning
Battery Status	Battery Ok or Battery Low
Card No.	CSN number of the card used on the lock
Channel	RF channel of the lock
Key type	Fixed key or Dynamic key
Used Card Sector	Mifare card sector in use
FW version	Firmware version of the lock
Time Limit	Time limit usage status
Time Limit Operation	Open or Close
3 Shift	3 shift usage status If you double click it, you can see the set time
Clear Data	Button to delete all lock information
Read Audit Trail Card	Button to read all lock information
Save Data	Button to save all lock information in DB

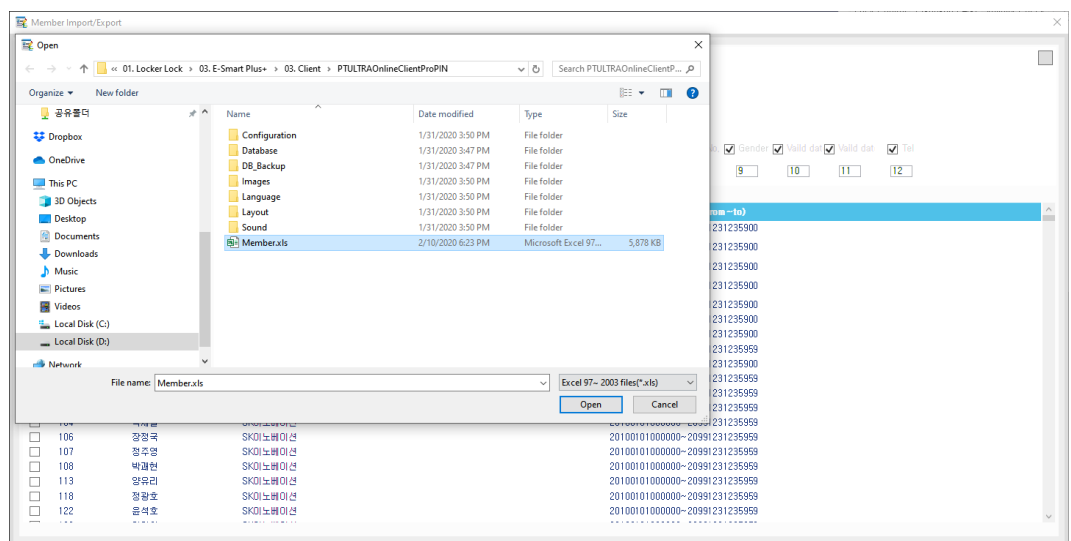
(7) Member Import/Export

A menu for importing/exporting user data from/to Excel file. Member ID, Name, Company, Building ID, Group ID, Lock ID, Password, Card number, Valid date, etc. can be imported/exported which are saved in 'Issue Membership Card'.



- Import

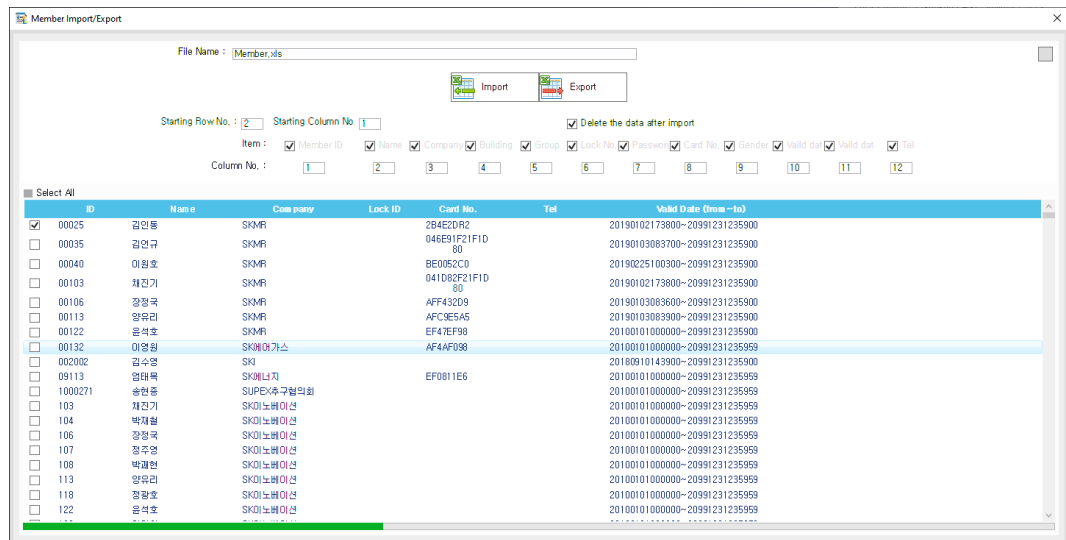
- ① Member information must be filled in Excel file in set format.
- ② Click 'Import' button and select an Excel file to import.



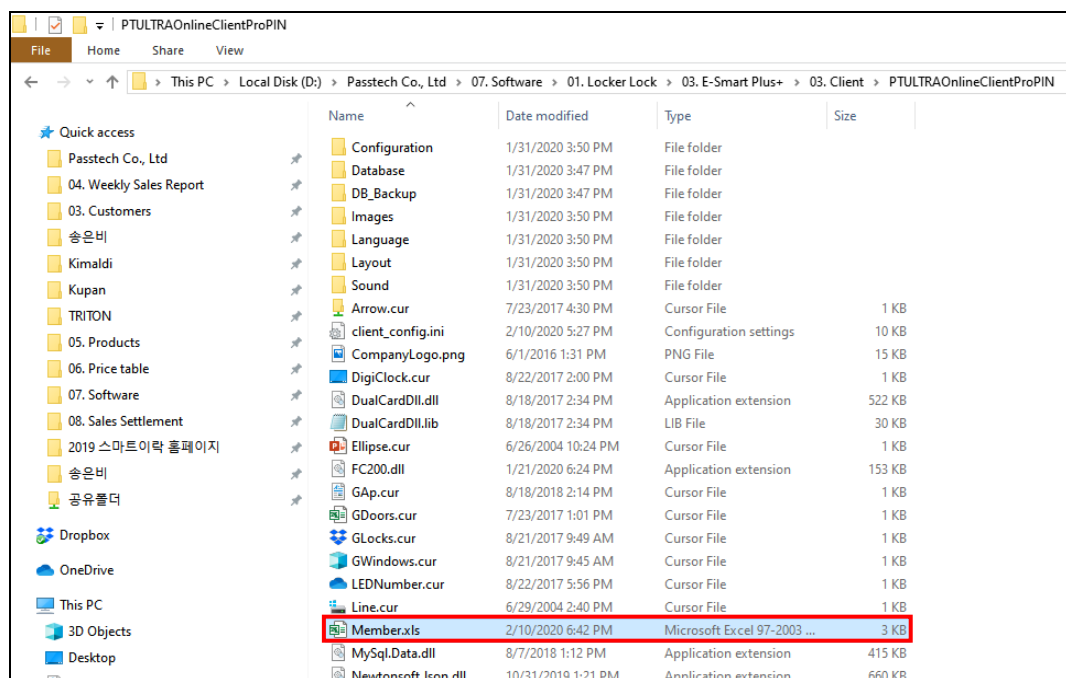
- ③ Click 'Import' button.

- Export

- ① Write file name and file extension (.xls / .xlsx).
- ② Select the date you want to export from the list, and click 'Export' button.

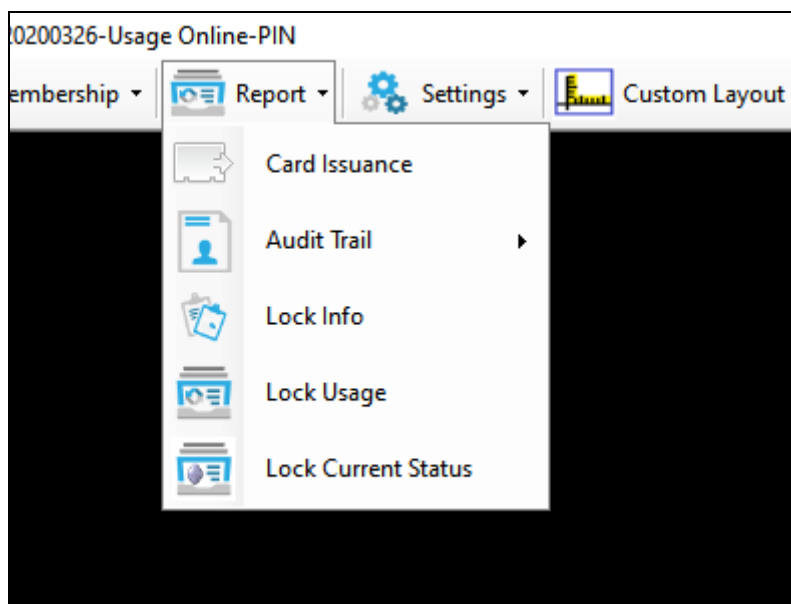


- ③ The file will be saved in the folder you download Client program.








7. Report

1) Menu List



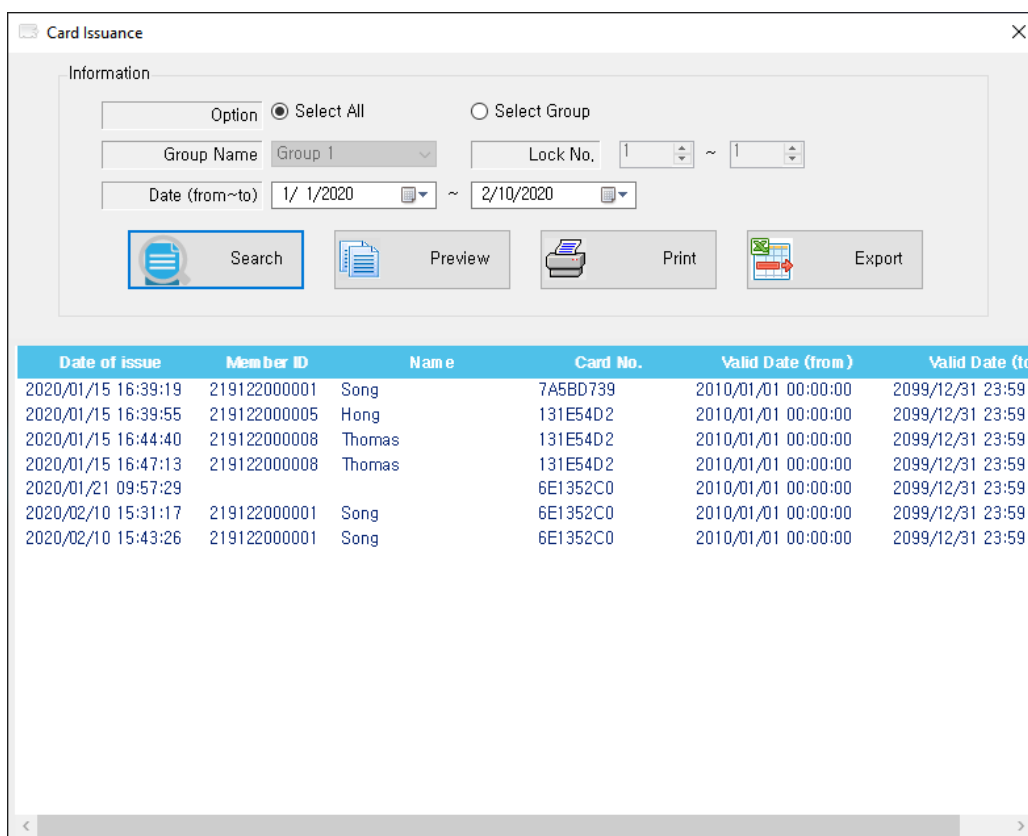
2) Main Item Description

Button	Description
 Search	Button to search
 Preview	Button for print preview
 Print	Button to print out
 Excel	Button to export DB to Excel
 Preview	Button for layout preview

3) Inquiry Report

(1) Card Issuance

A menu for making an inquiry into card issuance within a given period, and printing it out.



Date of issue	Member ID	Name	Card No.	Valid Date (from)	Valid Date (to)
2020/01/15 16:39:19	219122000001	Song	7A5BD739	2010/01/01 00:00:00	2099/12/31 23:59:59
2020/01/15 16:39:55	219122000005	Hong	131E54D2	2010/01/01 00:00:00	2099/12/31 23:59:59
2020/01/15 16:44:40	219122000008	Thomas	131E54D2	2010/01/01 00:00:00	2099/12/31 23:59:59
2020/01/15 16:47:13	219122000008	Thomas	131E54D2	2010/01/01 00:00:00	2099/12/31 23:59:59
2020/01/21 09:57:29			6E1352C0	2010/01/01 00:00:00	2099/12/31 23:59:59
2020/02/10 15:31:17	219122000001	Song	6E1352C0	2010/01/01 00:00:00	2099/12/31 23:59:59
2020/02/10 15:43:26	219122000001	Song	6E1352C0	2010/01/01 00:00:00	2099/12/31 23:59:59

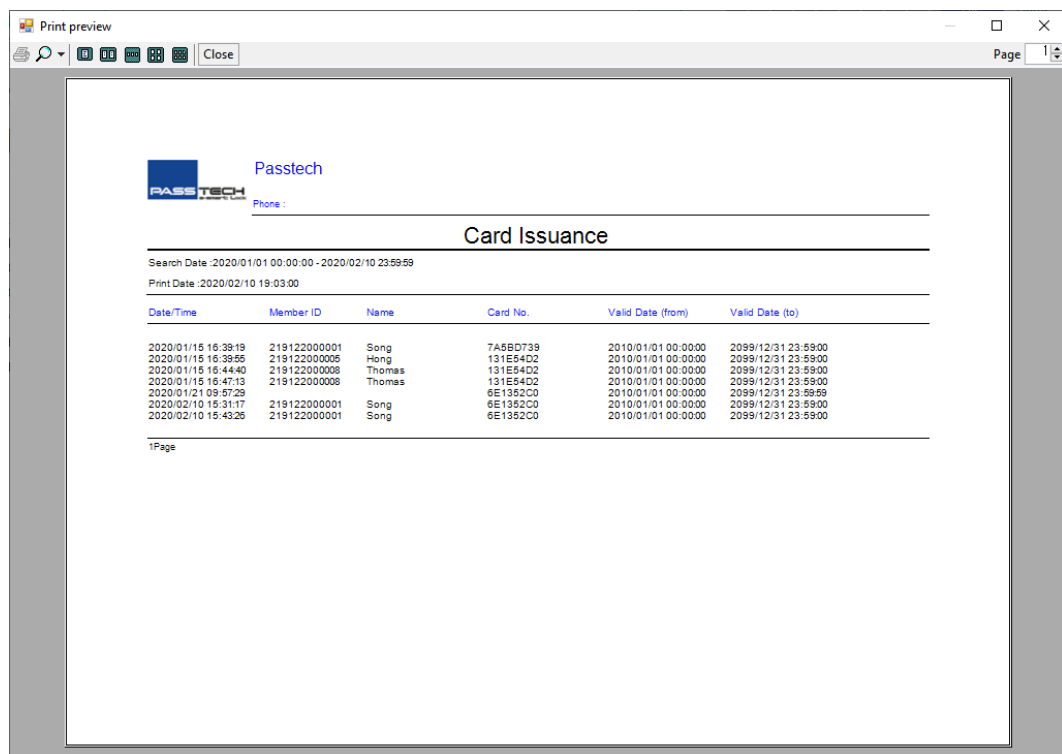
- ① Select a group (or all) and lock number range you want to inquire.
- ② Select the date, and click 'Search' button to see the history.

- Main Item Description

Item	Description
Option	Select All or Group
Group Name	Choose a group to inquire
Lock No.	Lock number range to inquire (From~ to~)
Date (From-To)	Date to inquire
Date of issuance	Card issue date

Member ID	ID registered in DB
Name	Name of card holder
Card No.	Card CSN number
Valid Date (From)	Card valid date (From)
Valid Date (To)	Card valid date (To)

- ③ Click 'Preview' button to see print preview, and click 'Print' button to print it out if you need.

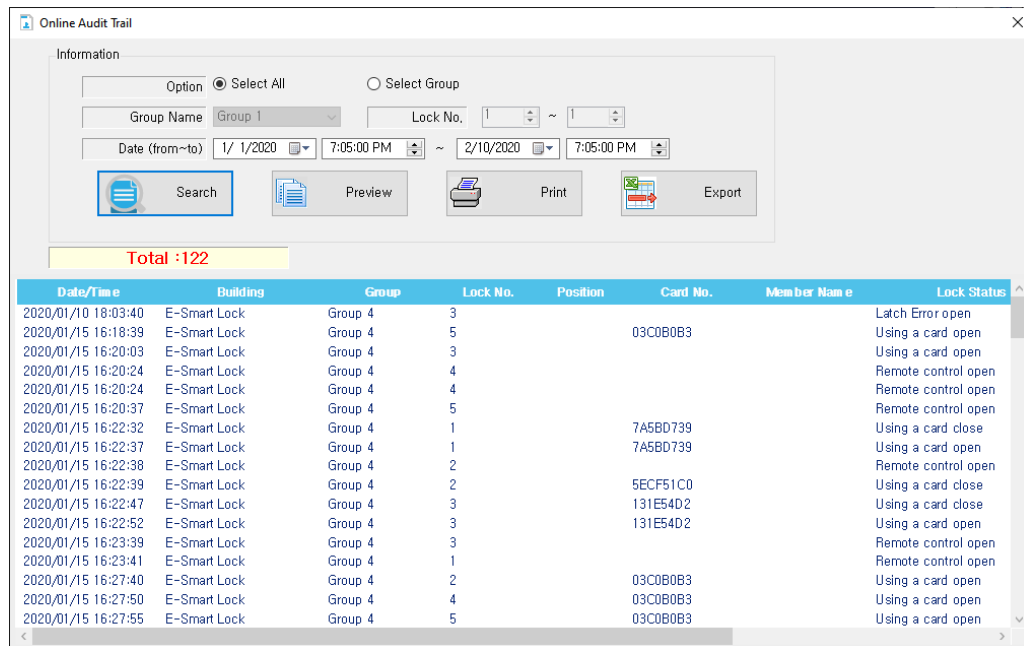


- ④ You can also export the history by clicking 'Export' button.

(2) Audit Trail

A menu for making an inquiry into lock usage, and print it out.

- Online Audit Trail



Date/Time	Building	Group	Lock No.	Position	Card No.	Member Name	Lock Status
2020/01/10 18:03:40	E-Smart Lock	Group 4	3				Latch Error open
2020/01/15 16:18:39	E-Smart Lock	Group 4	5		03C0B0B3		Using a card open
2020/01/15 16:20:03	E-Smart Lock	Group 4	3				Using a card open
2020/01/15 16:20:24	E-Smart Lock	Group 4	4				Remote control open
2020/01/15 16:20:24	E-Smart Lock	Group 4	4				Remote control open
2020/01/15 16:20:37	E-Smart Lock	Group 4	5				Remote control open
2020/01/15 16:22:32	E-Smart Lock	Group 4	1		7A5BD739		Using a card close
2020/01/15 16:22:37	E-Smart Lock	Group 4	1		7A5BD739		Using a card open
2020/01/15 16:22:38	E-Smart Lock	Group 4	2				Remote control open
2020/01/15 16:22:39	E-Smart Lock	Group 4	2		5ECF51C0		Using a card close
2020/01/15 16:22:47	E-Smart Lock	Group 4	3		131E54D2		Using a card close
2020/01/15 16:22:52	E-Smart Lock	Group 4	3		131E54D2		Using a card open
2020/01/15 16:23:39	E-Smart Lock	Group 4	3				Remote control open
2020/01/15 16:23:41	E-Smart Lock	Group 4	1				Remote control open
2020/01/15 16:27:40	E-Smart Lock	Group 4	2		03C0B0B3		Using a card open
2020/01/15 16:27:50	E-Smart Lock	Group 4	4		03C0B0B3		Using a card open
2020/01/15 16:27:55	E-Smart Lock	Group 4	5		03C0B0B3		Using a card open

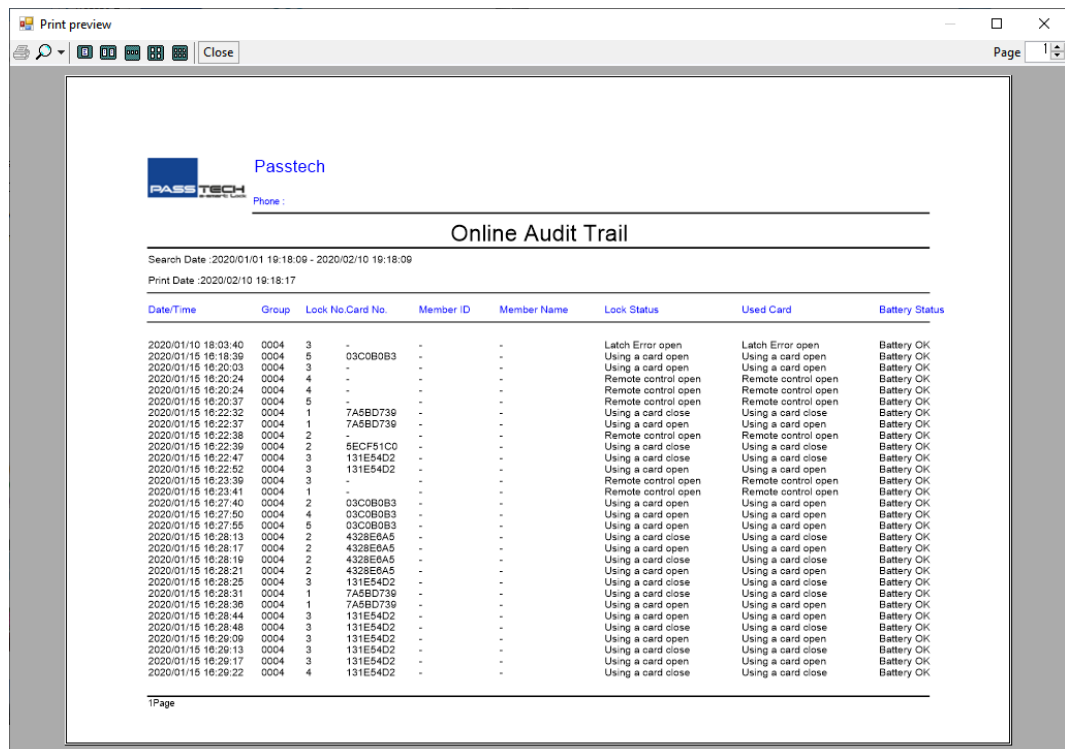
- ① Select a group (or all group) and lock range to inquire.
- ② Choose the period of lock usage you want to request, and click 'Search' button.

- Main Item Description

Item	Description
Option	Select All or Group
Group Name	Choose group to inquire
Lock No.	Lock number range to inquire
Date (From~To)	Date to inquire
Date/Time	Date of lock usage
Building	Building number
Group	Group number
Lock No.	Lock number
Card No.	Card CSN number

Member Name	Name of the card holder
Lock Status	Lock operation status
Battery Status	Battery OK or Low
Used Card	Card in use

- ③ Click 'Preview' button to see print preview, and click 'Print' button to print it out if you need.



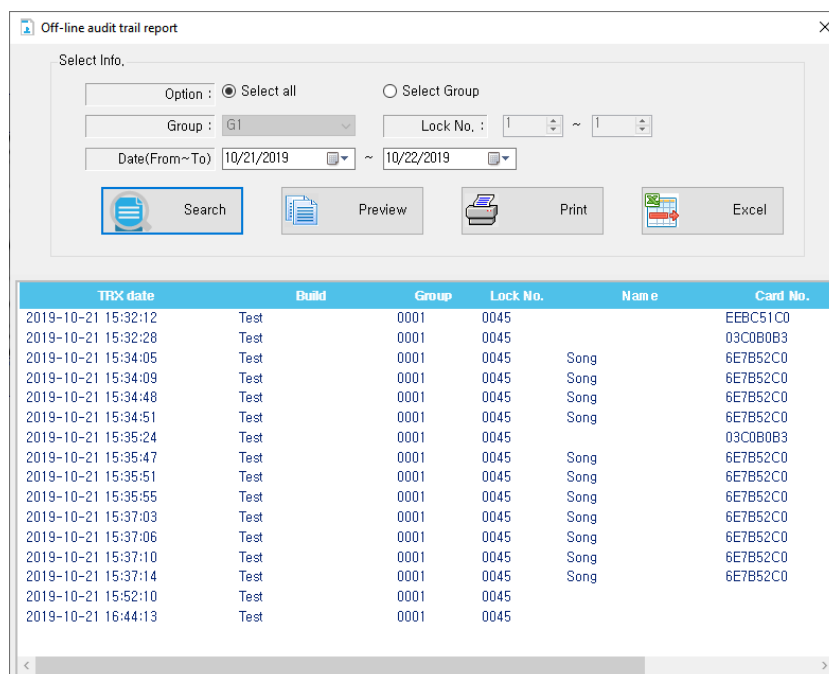
Print preview window showing the Online Audit Trail. The window title is 'Print preview' and it includes a 'Close' button. The content area displays the Passtech logo and the title 'Online Audit Trail'. Below the title, it shows the search date range '2020/01/01 19:18:09 - 2020/02/10 19:18:09' and the print date '2020/02/10 19:18:17'. The main table lists audit trail data with columns: Date/Time, Group, Lock No Card No., Member ID, Member Name, Lock Status, Used Card, and Battery Status. The table contains 30 rows of data. At the bottom, it indicates '1Page'.

Date/Time	Group	Lock No Card No.	Member ID	Member Name	Lock Status	Used Card	Battery Status
2020/01/10 18:03:40	0004	3	-	-	Latch Error open	Latch Error open	Battery OK
2020/01/15 16:18:39	0004	5	03C0B0B3	-	Using a card open	Using a card open	Battery OK
2020/01/15 16:20:03	0004	3	-	-	Using a card open	Using a card open	Battery OK
2020/01/15 16:20:24	0004	4	-	-	Remote control open	Remote control open	Battery OK
2020/01/15 16:20:24	0004	4	-	-	Remote control open	Remote control open	Battery OK
2020/01/15 16:20:37	0004	5	-	-	Remote control open	Remote control open	Battery OK
2020/01/15 16:22:32	0004	1	7A5BD739	-	Using a card close	Using a card close	Battery OK
2020/01/15 16:22:37	0004	1	7A5BD739	-	Using a card open	Using a card open	Battery OK
2020/01/15 16:22:38	0004	2	-	-	Remote control open	Remote control open	Battery OK
2020/01/15 16:22:39	0004	2	5ECF51C0	-	Using a card close	Using a card close	Battery OK
2020/01/15 16:22:47	0004	3	131E54D2	-	Using a card close	Using a card close	Battery OK
2020/01/15 16:22:52	0004	3	131E54D2	-	Using a card open	Using a card open	Battery OK
2020/01/15 16:23:39	0004	3	-	-	Remote control open	Remote control open	Battery OK
2020/01/15 16:23:41	0004	1	-	-	Remote control open	Remote control open	Battery OK
2020/01/15 16:27:40	0004	2	03C0B0B3	-	Using a card open	Using a card open	Battery OK
2020/01/15 16:27:50	0004	4	03C0B0B3	-	Using a card open	Using a card open	Battery OK
2020/01/15 16:27:55	0004	5	03C0B0B3	-	Using a card open	Using a card open	Battery OK
2020/01/15 16:28:13	0004	2	4328E6A5	-	Using a card close	Using a card close	Battery OK
2020/01/15 16:28:17	0004	2	4328E6A5	-	Using a card open	Using a card open	Battery OK
2020/01/15 16:28:19	0004	2	4328E6A5	-	Using a card close	Using a card close	Battery OK
2020/01/15 16:28:21	0004	2	4328E6A5	-	Using a card open	Using a card open	Battery OK
2020/01/15 16:28:25	0004	3	131E54D2	-	Using a card close	Using a card close	Battery OK
2020/01/15 16:28:31	0004	1	7A5BD739	-	Using a card close	Using a card close	Battery OK
2020/01/15 16:28:36	0004	1	7A5BD739	-	Using a card open	Using a card open	Battery OK
2020/01/15 16:28:44	0004	3	131E54D2	-	Using a card open	Using a card open	Battery OK
2020/01/15 16:28:48	0004	3	131E54D2	-	Using a card close	Using a card close	Battery OK
2020/01/15 16:29:09	0004	3	131E54D2	-	Using a card open	Using a card open	Battery OK
2020/01/15 16:29:13	0004	3	131E54D2	-	Using a card close	Using a card close	Battery OK
2020/01/15 16:29:17	0004	3	131E54D2	-	Using a card open	Using a card open	Battery OK
2020/01/15 16:29:22	0004	4	131E54D2	-	Using a card close	Using a card close	Battery OK

- ④ You can also export the history by clicking 'Export' button.

- Offline Audit Trail

The history collected by Audit Trail Card, and saved in 'Member-Audit Trail' are shown here.



TRX date	Build	Group	Lock No.	Name	Card No.
2019-10-21 15:32:12	Test	0001	0045		EEBC51C0
2019-10-21 15:32:28	Test	0001	0045		03C0B0B3
2019-10-21 15:34:05	Test	0001	0045	Song	6E7B52C0
2019-10-21 15:34:09	Test	0001	0045	Song	6E7B52C0
2019-10-21 15:34:48	Test	0001	0045	Song	6E7B52C0
2019-10-21 15:34:51	Test	0001	0045	Song	6E7B52C0
2019-10-21 15:35:24	Test	0001	0045		03C0B0B3
2019-10-21 15:35:47	Test	0001	0045	Song	6E7B52C0
2019-10-21 15:35:51	Test	0001	0045	Song	6E7B52C0
2019-10-21 15:35:55	Test	0001	0045	Song	6E7B52C0
2019-10-21 15:37:03	Test	0001	0045	Song	6E7B52C0
2019-10-21 15:37:06	Test	0001	0045	Song	6E7B52C0
2019-10-21 15:37:10	Test	0001	0045	Song	6E7B52C0
2019-10-21 15:37:14	Test	0001	0045	Song	6E7B52C0
2019-10-21 15:52:10	Test	0001	0045		
2019-10-21 16:44:13	Test	0001	0045		

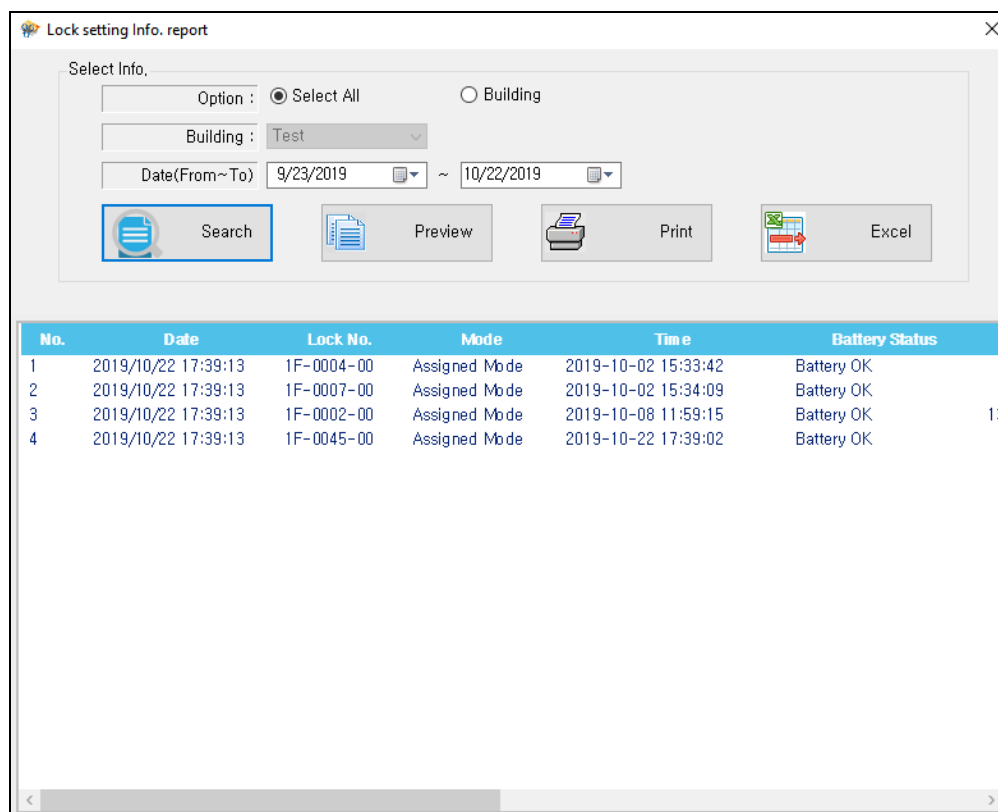
- ① Select a group (or all group) and lock range to inquire.
- ② Choose the period of lock usage you want to request, and click 'Search' button.

- Main Item Description

Item	Description
Option	Select All or Group
Group	Choose group to inquire
Lock No.	Lock number range to inquire
Date (From~To)	Date to inquire
Date/Time	Date of lock usage
Building	Building number
Group	Group number
Lock No.	Lock number
Name	Name of the card holder
Card No.	Card CSN number

(3) Lock Info

A menu for making an inquiry into lock information, and print it. The information collected by Lock Info Card and saved in 'Member-Lock Info' is shown here.



No.	Date	Lock No.	Mode	Time	Battery Status
1	2019/10/22 17:39:13	1F-0004-00	Assigned Mode	2019-10-02 15:33:42	Battery OK
2	2019/10/22 17:39:13	1F-0007-00	Assigned Mode	2019-10-02 15:34:09	Battery OK
3	2019/10/22 17:39:13	1F-0002-00	Assigned Mode	2019-10-08 11:59:15	Battery OK
4	2019/10/22 17:39:13	1F-0045-00	Assigned Mode	2019-10-22 17:39:02	Battery OK

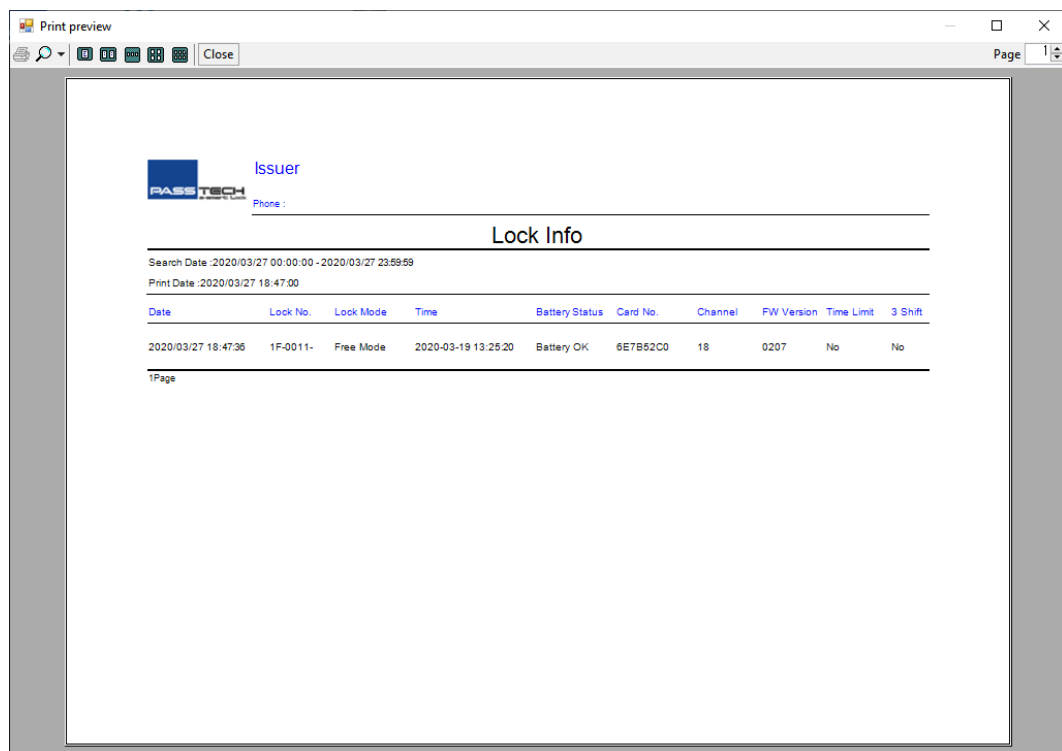
- ① Select a building (or all) and date to inquire.
- ② Click 'Search' button to call the saved lock information.

- Main Item Description

Item	Description
No.	In the order that you collect it
Date	Date to inquire (From~To~)
Lock No.	Number of the lock
Mode	Free Mode, Assign Mode, Smart-Assign Mode
Time	Time of Lock Info Card scanning
Battery Status	Battery OK or Low

Card No.	Used card CSN number
Channel	RF channel of the lock
Key Type	Fixed key or Dynamic key
Used Card Sector	Occupied sector of the card
FW Version	Firmware version
Time Limit	Time Limit usage status
Time Limit Operation	Open or Close
3 Shift	3 Shift usage status

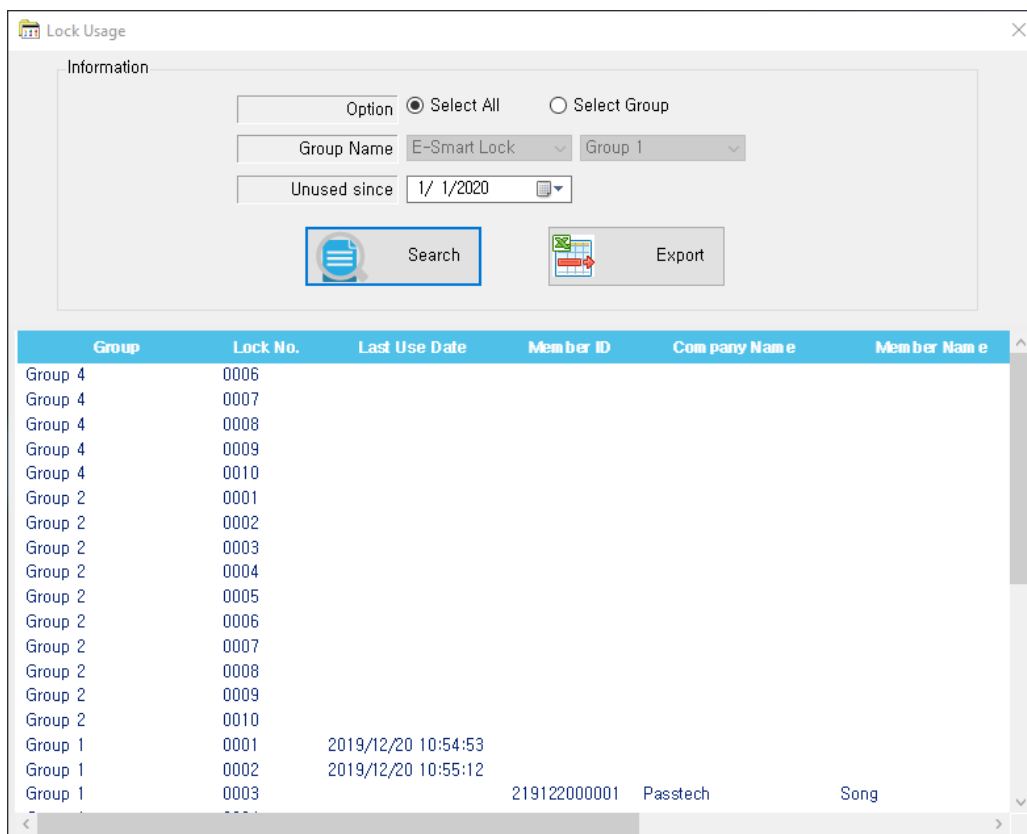
- ③ Click 'Preview' button to see print preview, and click 'Print' button to print it out if you need.



- ④ You can also export the history by clicking 'Export' button.

(4) Lock Usage

A menu for checking which lock has been used and has not been used within a given period.



Group	Lock No.	Last Use Date	Member ID	Company Name	Member Name
Group 4	0006				
Group 4	0007				
Group 4	0008				
Group 4	0009				
Group 4	0010				
Group 2	0001				
Group 2	0002				
Group 2	0003				
Group 2	0004				
Group 2	0005				
Group 2	0006				
Group 2	0007				
Group 2	0008				
Group 2	0009				
Group 2	0010				
Group 1	0001	2019/12/20 10:54:53			
Group 1	0002	2019/12/20 10:55:12			
Group 1	0003		219122000001	Passtech	Song

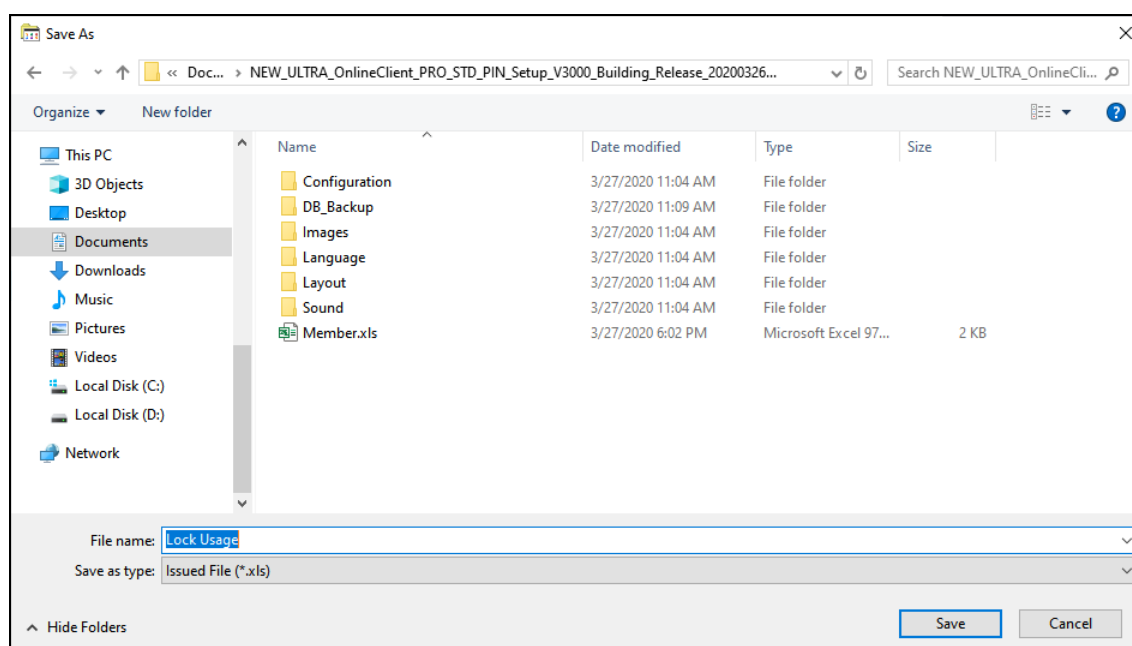
- ① Select a group (or all) and date to check.
- ② Click 'Search' button to see the history.

- Main Item Description

Item	Description
Option	Select All or Group
Group Name	Choose a group to inquire
Unused since	The starting date of unused period
Group	Group number
Lock No.	Lock number
Last Use Date	The last date a lock is used
Member ID	Member ID registered in DB

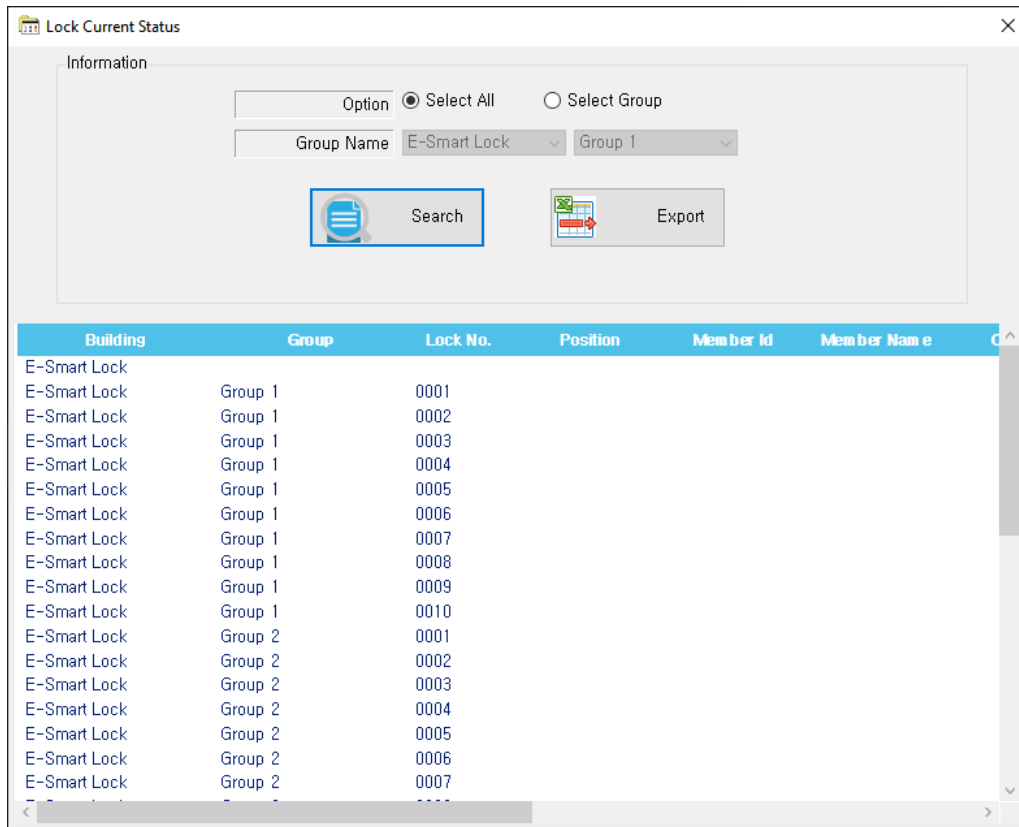
Company Name	Company name registered in DB
Member Name	Member name registered in DB
Card No.	Card CSN number
Valid Date (From)	Valid date of the card (From)
Valid Date (To)	Valid date of the card (To)

- ③ You can also export the history by clicking 'Export' button.



(5) Lock Current Status

A menu for checking current status of lock.



Building	Group	Lock No.	Position	Member Id	Member Name
E-Smart Lock					
E-Smart Lock	Group 1	0001			
E-Smart Lock	Group 1	0002			
E-Smart Lock	Group 1	0003			
E-Smart Lock	Group 1	0004			
E-Smart Lock	Group 1	0005			
E-Smart Lock	Group 1	0006			
E-Smart Lock	Group 1	0007			
E-Smart Lock	Group 1	0008			
E-Smart Lock	Group 1	0009			
E-Smart Lock	Group 1	0010			
E-Smart Lock	Group 2	0001			
E-Smart Lock	Group 2	0002			
E-Smart Lock	Group 2	0003			
E-Smart Lock	Group 2	0004			
E-Smart Lock	Group 2	0005			
E-Smart Lock	Group 2	0006			
E-Smart Lock	Group 2	0007			

- ① Select a group (or all) to check current status of the locks in the group.
- ② Click 'Search' button to see the information.

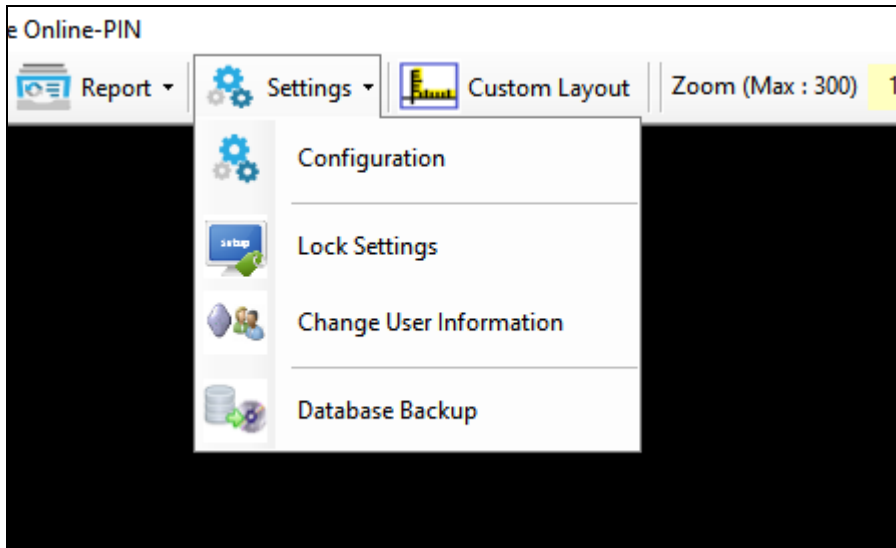
- Main Item Description

Item	Description
Option	Select All or Group
Group	Choose a group to inquire
Building	Building name
Group	Group number
Lock No.	Lock number
Position	Current lock position
Member ID	Member ID registered in DB

Member Name	Member name registered in DB
Company Name	Company name registered in DB
Card No.	Card CSN number
Last Update	The date of last use
Valid (From)	Valid date of the card (From)
Valid (To)	Valid date of the card (To)

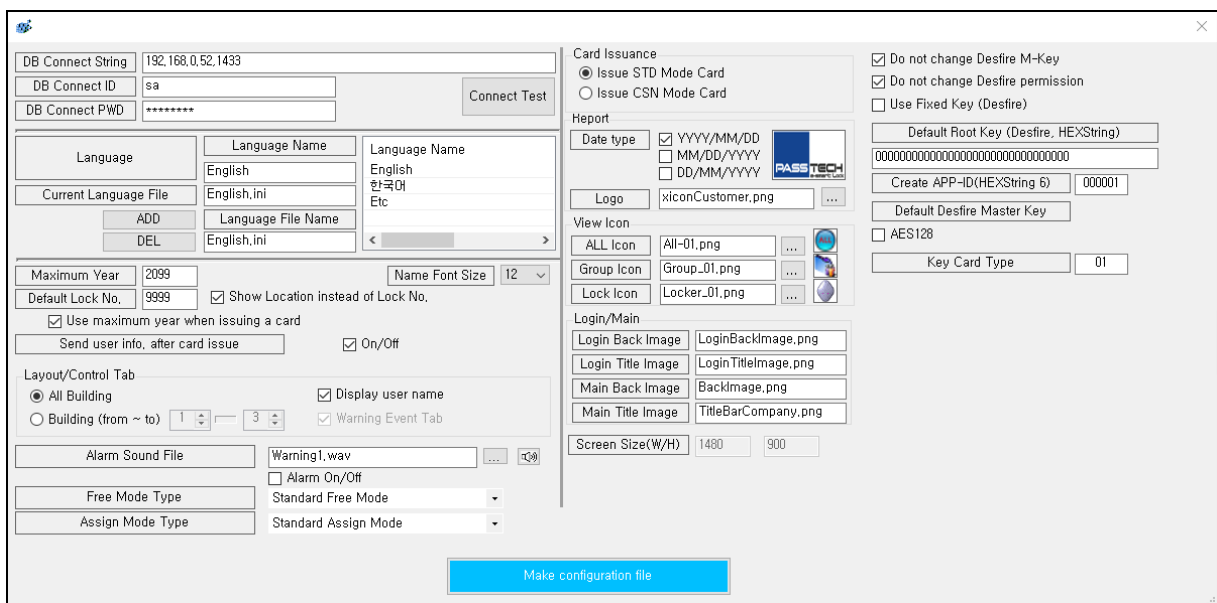
8. Settings

1) Menu List



2) Configuration

A menu for managing configuration such as DB connection URL, Logo image, etc.



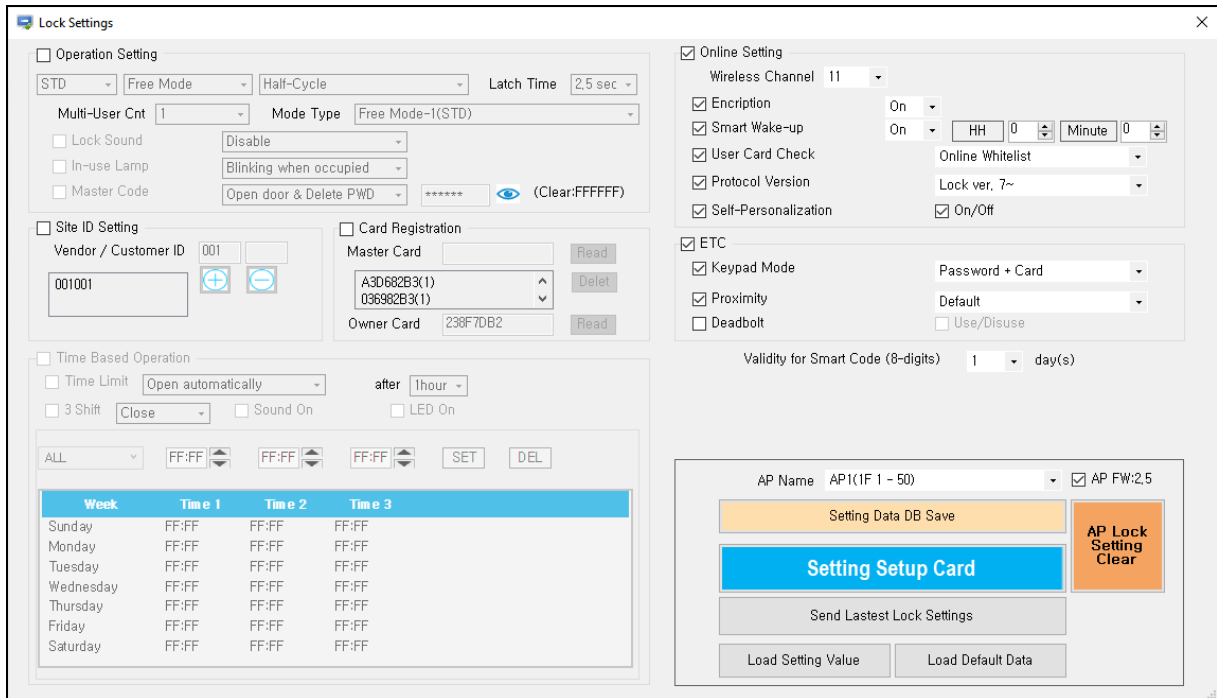
- Main Item Description

Group	Item	Description
DB Connection	DB Connect String	Input Server IP address, 1433
	DB Connect ID	sa
	DB Connect PWD	Passtech (or the password you specified)
	Connect Test	Check DB connection
Language	Language Name	Korean, English, etc.
	Current Language File	A language file you are using now
	ADD	Select Language file and add
	DEL	Select Language file and delete
Mode	Maximum Year	The maximum of year for unlimited (Default: 2099)
	Maximum Lock No.	The lock number on a card when you issue the card without assigned lock number (Default: 9999)
	Show Location instead of Lock No.	Select a checkbox to indicate a location (N, S, E, W) instead of lock number.
	Apply to card issue	Use maximum year as default when issuing a card
	Name Font Size	Choose font size of the user name showing in the layout monitoring (Size 5~20)
	Send User Info. after Card Issue	Send user information to a lock after card issue
Layout / Control Tab	All Building / Building (from ~ to)	Show all buildings or selected buildings on monitoring
	Display user name	Display user name on monitoring layout
Alarm	Alarm Sound File	Add sound file for lock alarm
	Alarm On/Off	Check to on/off alarm sound
Operation Type	Free Mode Type	Standard Free Mode / Multi-Lock per group
	Assign Mode Type	Standard Assign Mode / Assign after Master Card 1 / Assign based on Lock No. / Assign based on Card No.
Card Issuance	Mode Selection	Issue STD Mode Card ➔ Select when issuing a user card by default Issue CSN Mode Card ➔ Select when the locks are set in CSN mode and the system only reads the CSN of the card for register in database

Report	Date type	YYYY/MM/DD, MM/DD/YYYY, DD/MM/YYYY
	Logo	Choose a logo image for report
Tree-View	ALL Icon	Choose an 'ALL' icon shown on monitoring
	Group Icon	Choose an 'Group' icon shown on monitoring
	Lock Icon	Choose an 'Lock' icon shown on monitoring
Login / Main	Login Back Image	Choose a background image shown on login screen
	Login Title Image	Choose a title image shown on login screen
	Main Back Image	Choose a background image shown on monitoring
	Main Title Image	Choose a title image shown on tab menu
	Screen Size (W/H)	Size of screen (Default: 1400x900)
Desfire Card	Do not change Desfire M-Key	If select, Desfire Master Key does not change
	Do not change Desfire permission	If select, Desfire Permission does not change
	Use Fixed Key (Desfire)	Select to use data file as Fixed key
	Default Root Key (Desfire, HEXString)	Input Root Key(Desfire, HEXString) Default: 00000000000000000000000000000000
	Create APP-ID (HEXString 6)	Input 6 digits of APP-ID(HEXString 6) Default: 000001
	Default Desfire Master Key	Select to use AES128 Desfire Master Key
	Key Card Type (HEX)	Input the Key Card Type of Value (HEX) Default: 01

3) Lock Settings

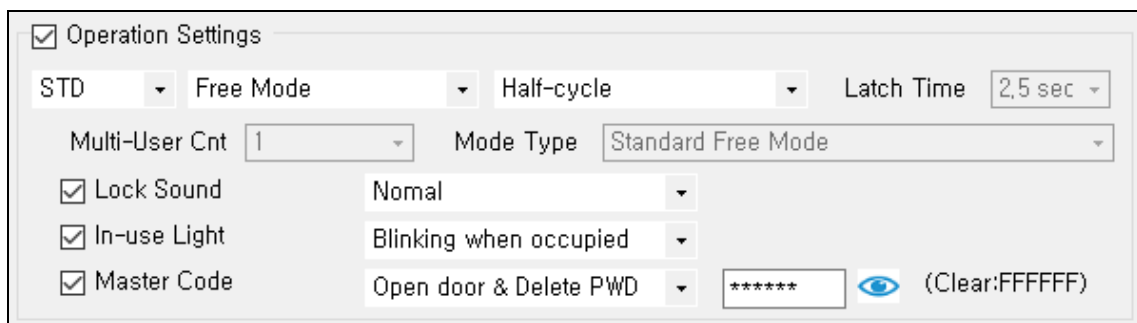
A menu for sending command for lock setting online.



The screenshot shows the 'Lock Settings' window with the following sections:

- Operation Setting:** Includes dropdowns for STD, Free Mode, Half-Cycle, and Latch Time (2.5 sec). It also has Multi-User Cnt (1), Mode Type (Free Mode-1(STD)), and checkboxes for Lock Sound, In-use Lamp, and Master Code. A password field is set to '*****' with a 'Clear:FFFFFF' button.
- Site ID Setting:** Includes Vendor / Customer ID (001) and a Card Registration section with Master Card (A3D682B3(1)) and Owner Card (238F7DB2).
- Time Based Operation:** Includes Time Limit (Open automatically), 3 Shift (Close), Sound On, and LED On checkboxes. A table shows time settings for each day of the week.
- Online Setting:** Includes Wireless Channel (11), Encryption (On), Smart Wake-up (On), User Card Check (On), Protocol Version (Lock ver, 7~), and Self-Personalization (On/Off).
- ETC:** Includes Keypad Mode (Password + Card), Proximity (Default), and Deadbolt (Use/Disuse).
- Buttons:** Setting Data DB Save, Setting Setup Card, Send Latest Lock Settings, Load Setting Value, Load Default Data, and AP Lock Setting Clear.

(1) Operation Settings



The screenshot shows the 'Operation Settings' section with the following details:

- Operation Settings:** Checked checkbox.
- STD:** Dropdown menu.
- Free Mode:** Dropdown menu.
- Half-cycle:** Dropdown menu.
- Latch Time:** 2.5 sec.
- Multi-User Cnt:** 1.
- Mode Type:** Standard Free Mode.
- Lock Sound:** Checked, Normal.
- In-use Light:** Checked, Blinking when occupied.
- Master Code:** Checked, Open door & Delete PWD.
- Password:** *****.
- Clear:** FFFFFFFF.

- ① Select 'Operation Settings' checkbox to activate.
- ② Select a lock operation mode.
 - STD (Standard Mode) or CSN (Chip Serial Number Mode)
 - Free / Assign / Smart Assign Mode
 - Latch Half-cycle Locker / Full-cycle Locker

(Free Mode operates only Half-cycle, and Assign Mode operates both Half-cycle and Full-cycle)

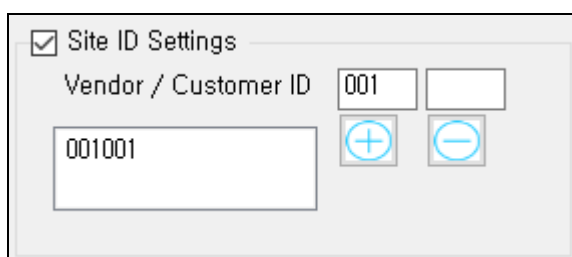
- Latch time: 2.5 secs / 5 secs / 10 secs (Full-Cycle Mode only)
- Multi-User: Up to 5 (Assign Mode only)
- Mode Type

Mode	Description
Standard Free Mode	Standard Free Mode
Multi-lock per group	Multi-lock per group
Standard Assign Mode	Standard Assign Mode
Assign after Master Card 1	Enable to assign user card after reading Master Card 1
Assign based on Lock No.	Lock accept all user card which have the lock number
Assign based on Card No.	If the user card number is stored in the lock, lock ignore the registered lock number and accept the user card

③ Set lock functions

- Lock Sound: Disable, Normal, Small
- In-Use Light: Off, Blinking when occupied, Blinking when available
- Default Locker Password: 1234 (Assign Mode and Smart Assign Mode only)
- Master Code
 - : Open door & Delete PWD (Same function as Master Card 1)
 - : Open/Close door only (Same function as Master Card 2)

(2) Site ID Settings



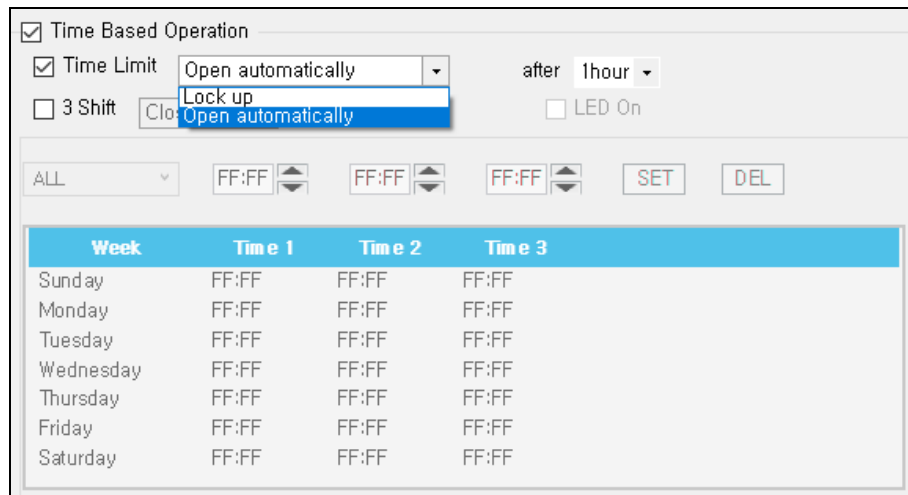
The dialog box titled 'Site ID Settings' contains a checked checkbox. Below it, there is a label 'Vendor / Customer ID' followed by a text input field containing '001' and an empty text input field. Below these fields are two buttons: a blue '+' button and a blue '-' button. At the bottom, there is a larger text input field containing '001001'.

- ① Select 'Site ID Settings' checkbox to activate.
- ② Input Issuer ID (Vendor/Customer) and click '+' to register.
It must be same Key number which you read on Client Program and locks.
- ③ If you want to delete, select Issuer ID in box and click '-'.

(3) Time Based Operation

Time based operation can be used only on Free Mode.

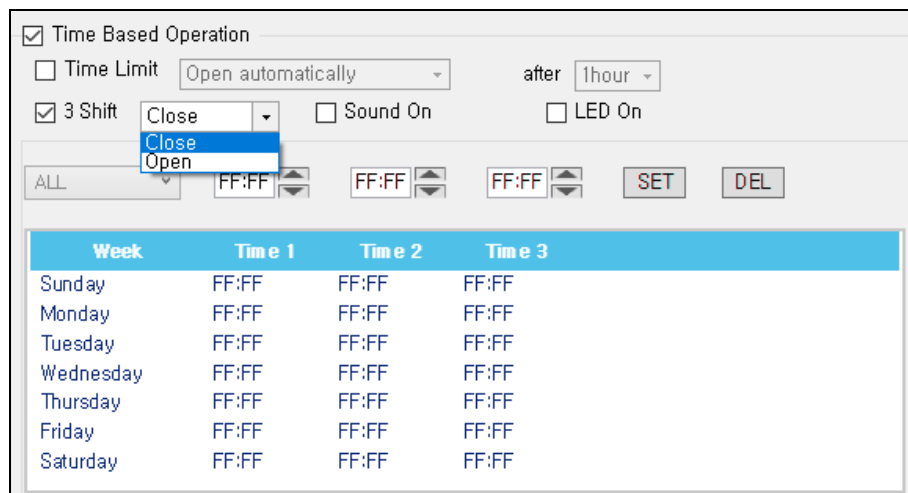
- Time Limit



Week	Time 1	Time 2	Time 3
Sunday	FF:FF	FF:FF	FF:FF
Monday	FF:FF	FF:FF	FF:FF
Tuesday	FF:FF	FF:FF	FF:FF
Wednesday	FF:FF	FF:FF	FF:FF
Thursday	FF:FF	FF:FF	FF:FF
Friday	FF:FF	FF:FF	FF:FF
Saturday	FF:FF	FF:FF	FF:FF

- ① Select 'Time Limit' checkbox to activate.
- ② Choose an operation mode.
 - Lock up: Lock closes automatically after set time
Master Card 1 or Online Control can open the lock again
 - Open automatically: Lock opens automatically after set time
- ③ Set the time to operate. Time can be set from 1 to 99 hours.

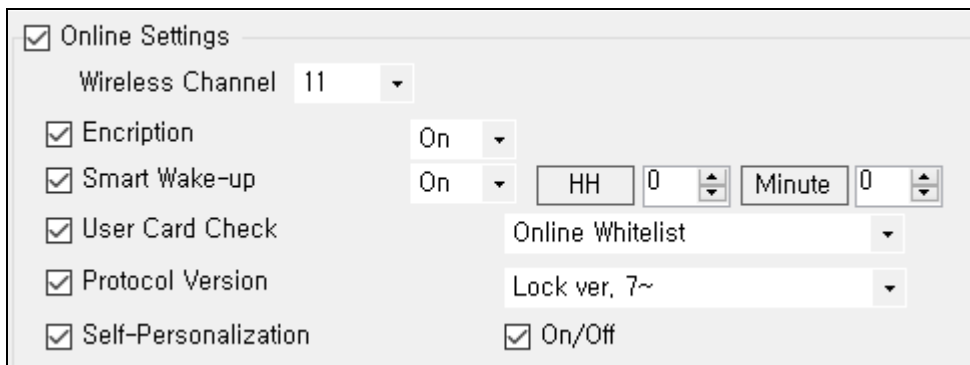
- 3 Shift



Week	Time 1	Time 2	Time 3
Sunday	FF:FF	FF:FF	FF:FF
Monday	FF:FF	FF:FF	FF:FF
Tuesday	FF:FF	FF:FF	FF:FF
Wednesday	FF:FF	FF:FF	FF:FF
Thursday	FF:FF	FF:FF	FF:FF
Friday	FF:FF	FF:FF	FF:FF
Saturday	FF:FF	FF:FF	FF:FF

- ① Select '3 Shift' checkbox to activate.
- ② Select operation mode.
 - Close: Lock closes at the set day and time
 - Open: Lock opens at the set day and time
 - Sound On: Alarm sounds at the set day and time
 - LED On: LED lamp blinks at the set day and time
- ③ Set the day and time to operate.
 - Select ALL or the day of week
 - Set time and click 'SET' to save
(00:00 means time is not set. If you want to operate locks at midnight, set as 23:59)

(4) Online Settings



- Main Item Description

Item	Description
Wireless Channel	Communication channel between online lock and AP (Channel range: 11 ~ 25) If you set Wireless channel 'OFF', lock lose wireless communications
Encryption	Encryption usage status
Smart Wake-up	Select when the setting is set in Smart Assign mode Select "On" and set the time in hours or minutes for the lock to wake-up automatically

User Card Check	<p>Select Off, Online Whitelist, Online Blacklist, Card Blocking</p> <p>If you select Online Whitelist, the lock will operate when the user card CSN is in the Membership list (Server database) by checking through AP in real-time</p> <p>If you select Online Blacklist, the lock will operate when the user card CSN is not in the blacklist account by checking through AP in real-time</p> <p>If you select Card Blocking, the lock will not accept blocked card</p>
Protocol Version	Select lock FW version
Self-Personalization	<p>Issue a user card from the lock itself</p> <p>This function can be worked when User card CSN is registered in Membership list (Server database)</p>

(5) ETC.

☒ ETC

☒ Keypad Mode

Password + Card

☒ Proximity

Default

☐ Deadbolt

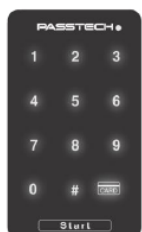
☐ Use/Disuse

Validity for Smart Code (8-digits)

1

 day(s)

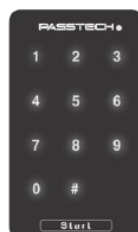
- ① Select 'Keypad Mode' checkbox to activate.
- ② Choose the operation mode.
 - Password + Card: User use both password and RF card
 - Password: User can use only password
 - Card: User can use only RF card



[PWD&CARD]



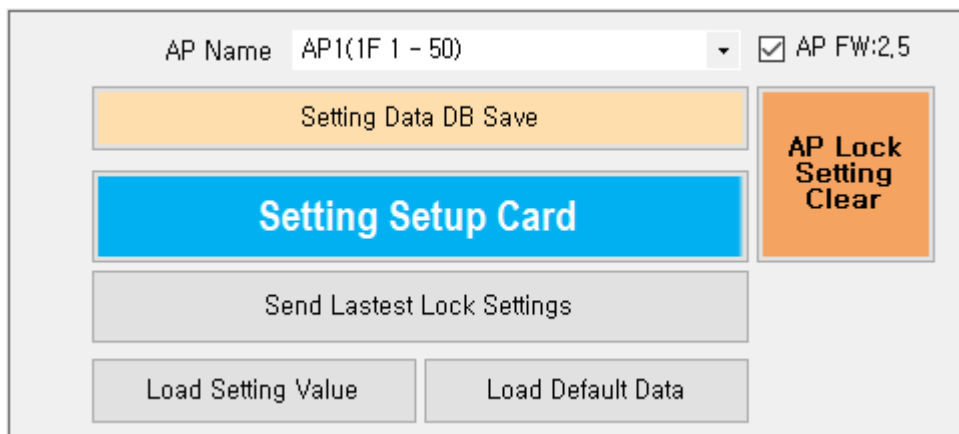
[CARD]



[PWD]

- ③ Select 'Proximity' checkbox to activate, and choose proximity power between lock and user card.
- ④ Select 'Deadbolt' checkbox to activate if you use deadbolt locks.
- ⑤ Set validity of Smart code (8-digits). After the validity, Smart Code won't be used.

(6) Send Lock Settings

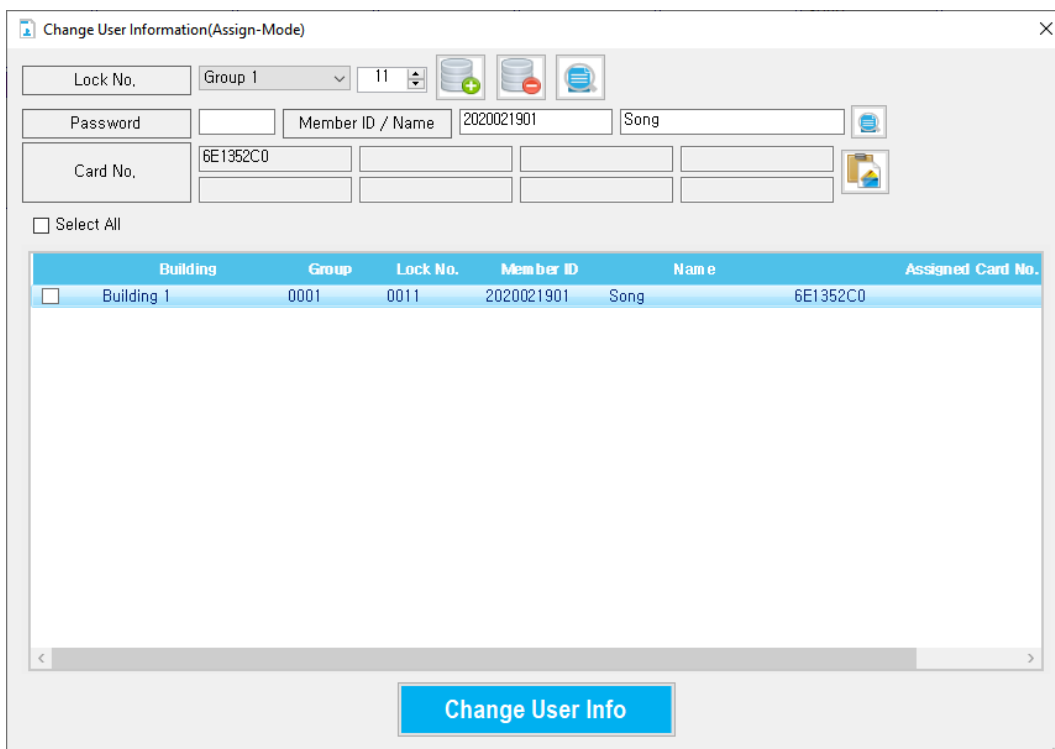


- Main Item Description




Item	Description
AP Name	Select AP which you will send the setting value
Save Setting Data	Save the setting data DB
Send Lock Settings	Request settings to locks
Send Latest Lock Settings	Request latest setting to locks
Load Setting Value	Read INI. File
Load Default Data	Read default setting data
AP Lock Setting Clear	Cancel the online request setting information * Recommend to use it after finishing all setting

4) Change User Information





A menu for changing user information of locks online. You can use this for swapping user card or changing password. This function only works in Assign mode.



- Main Item Description

Item	Description
Lock No.	Group and lock number
	Add
	Delete
	Search
Password	Change assigned password
Member ID / Name	Search user ID and name
Card No.	Search card ID and name
Building	Building number

Group	Group name
Lock No.	Lock number
Member ID	User ID
Name	User name registered in DB
Assigned Card No.	Card CSN number

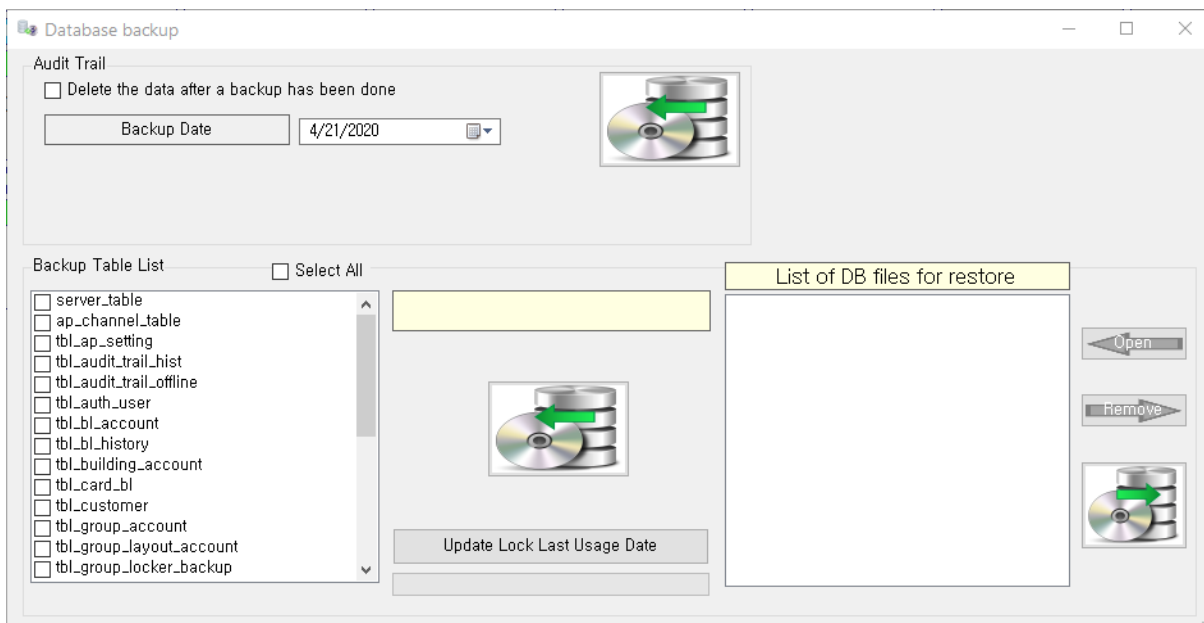
- ① Select a group name and click '' button to search locks in that group. Only assigned locks will be shown on the list.
- ② Select a lock from the list, or click '' button and search a member(user) to change information of it.
- ③ Input a password, or click '' button, search Card No. to assign and check the '☐' checkbox. To apply.
- ④ Click '' button to change information, and check if password and Card No. are applied correctly from the list.
- ⑤ Repeat from ② to ④ to other locks if you need.
- ⑥ Select locks you want to send the changing command from the list, and check the '☐' checkbox. If you want to change all lock user information, select the 'Select All "☐' checkbox.
- ⑦ Press 'Change User Info' button to request online change.

NOTE





Please be aware that even though you send change command here and the lock information is changed, member information in 'Issue Membership Card' is not changed. You need to modify it manually.

5) Database Backup

A menu for date backup. You can select the day you want to keep the data and account.

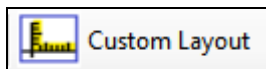


- Main Item Description

Item	Description
Audit Trail	Backup Online Audit Trail data
Delete the data after a backup has been done	Select to delete the data after backup
Backup Date	Set the date for the backup data
Backup Table List	Select the checkbox for the backup data
	Save button After clicking the button, choose the folder where you want to save the data backup file
	Add backup file to the list
	Delete backup file from the list
	Restore button After adding backup files to the list, click the button to restore them

9. Custom Layout

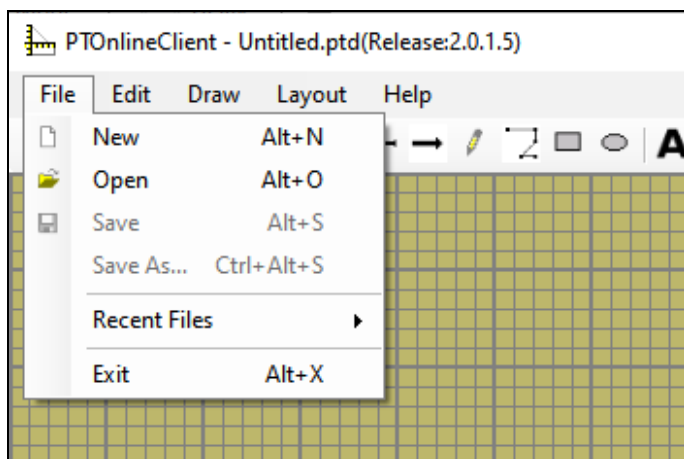
To monitor lock status in Client program, you need layout file of each/all group.



Custom layout enables you to design locker layout as you wish based on real site layout, or select preferable locker design among templates.

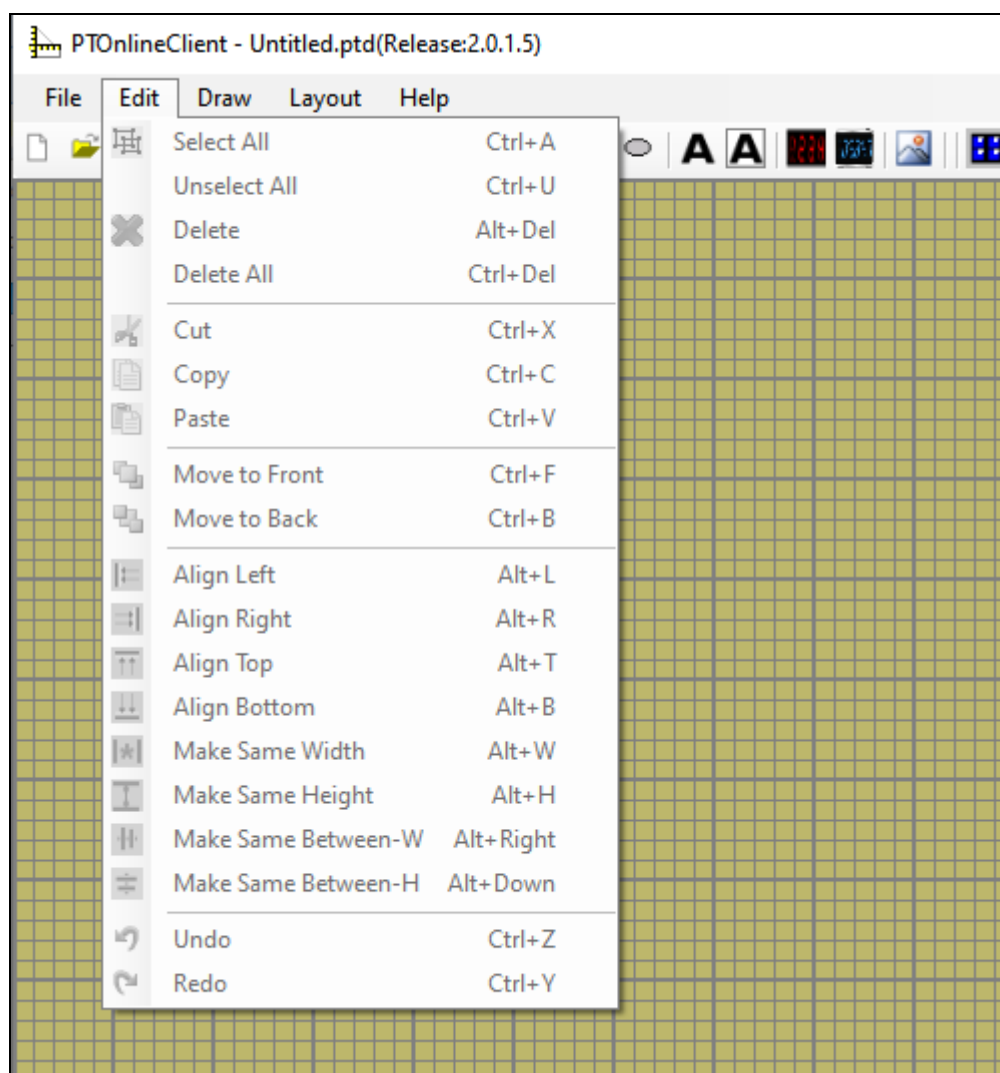
1) Menu List

(1) File



Menu	Description
New	Delete all objects from the layout and erase the current file name to make a new layout
Open	Popup panel to open a layout file
Save	Save current layout in current file name
Save As	Popup panel to save current layout in new file name
Recent Files	A list of recently loaded layout files
Exit	Exit from the window

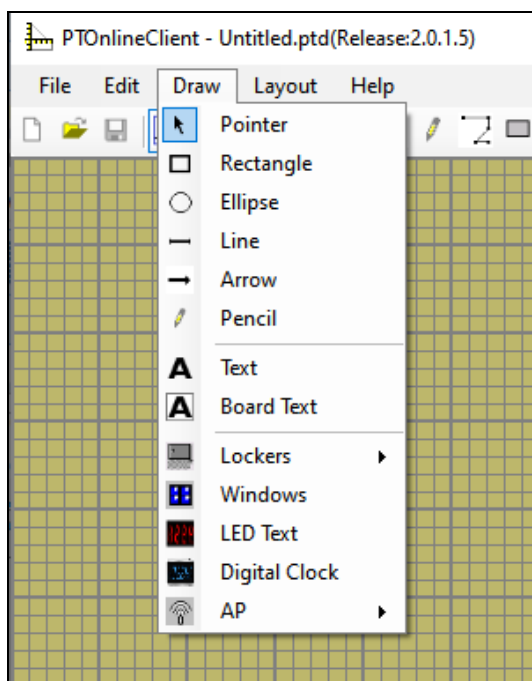
(2) Edit



Menu	Description
Select All	Select all objects in the layout
Unselect All	Unselect all objects in the layout
Delete	Delete the selected object
Delete All	Delete all objects in the layout
Cut	Cut the selected object
Copy	Copy the selected object
Paste	Paste the selected object
Move to Front	Move the selected object to front
Move to Back	Move the selected object to back

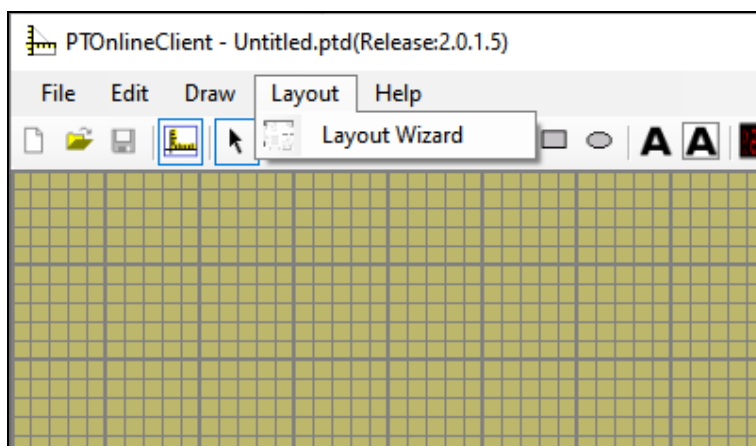
Align Left	Align objects to left same as the selected object
Align Right	Align objects to right same as the selected object
Align Top	Align objects to top same as the selected object
Align Bottom	Align objects to bottom same as the selected object
Make Same Width	Make the objects have width as same as the selected object
Make Same Height	Make the objects have height as same as the selected object
Make Same Between-W	Make the objects have horizontal gap as same as the first and second selected objects
Make Same Between-H	Make the objects have vertical gap as same as the first and second selected objects
Undo	Undo
Redo	Redo

(3) Draw



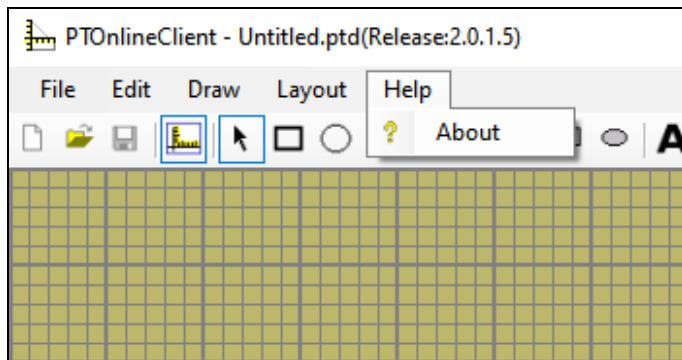
Menu	Description
Pointer	Pointer
Rectangle	Insert Rectangle in the layout board
Ellipse	Insert Ellipse in the layout board
Line	Insert Line in the layout board
Arrow	Insert Arrow in the layout board
Pencil	Draw with pencil in the layout board
Text	Insert Text in the layout board
Board Text	Insert Text with border in the layout board
Lockers	Insert Lockers in the layout board
Windows	Insert Windows in the layout board
LED Text	Insert LED Text in the layout board
Digital Clock	Insert Digital Clock in the layout board
AP	Insert AP in the layout board

(4) Layout



Menu	Description
Layout Wizard	Insert many locker icons at once

(5) Help

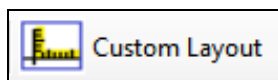


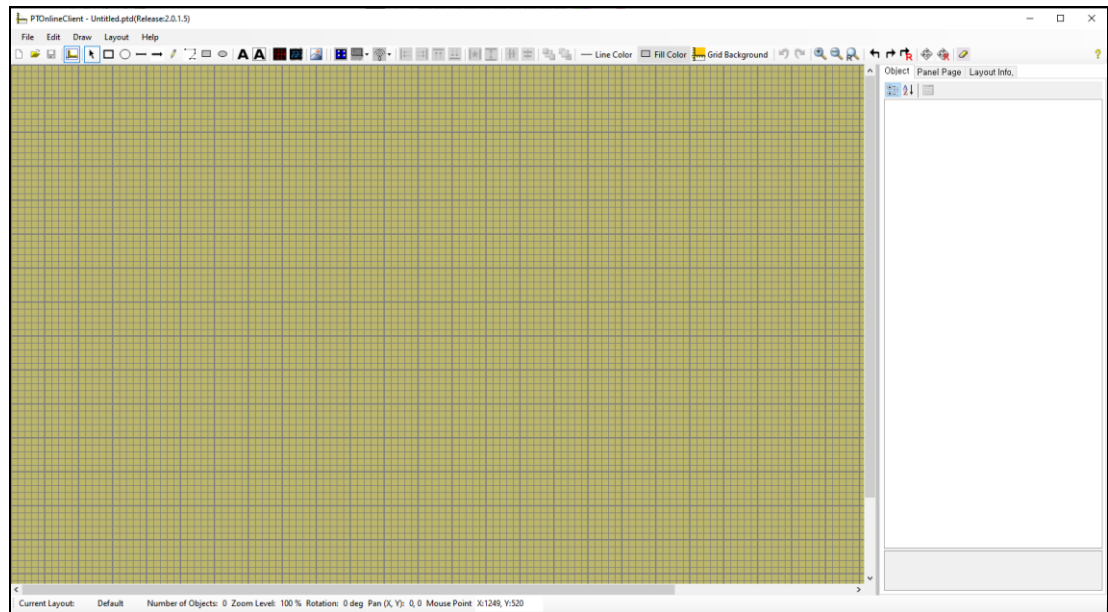
Menu	Description
Help	About Custom Layout program

2) Basic Functions

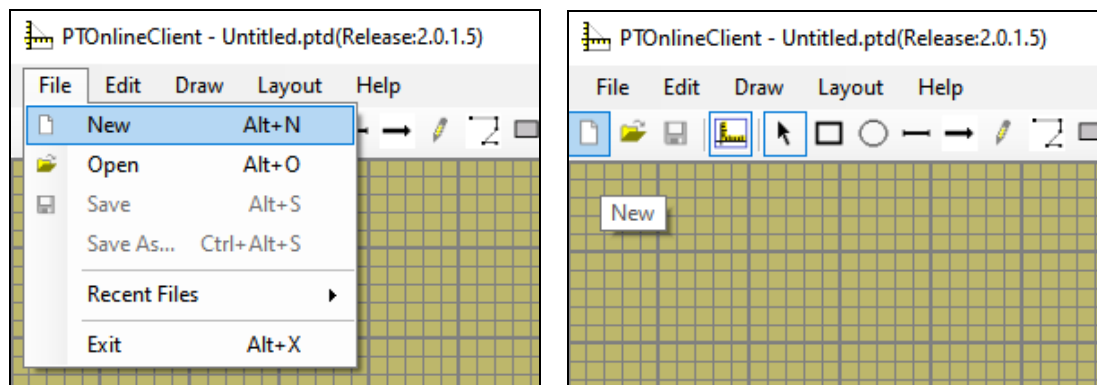
(1) Draw locker icon one by one

- ① Open 'Custom Layout' from Client menu list.





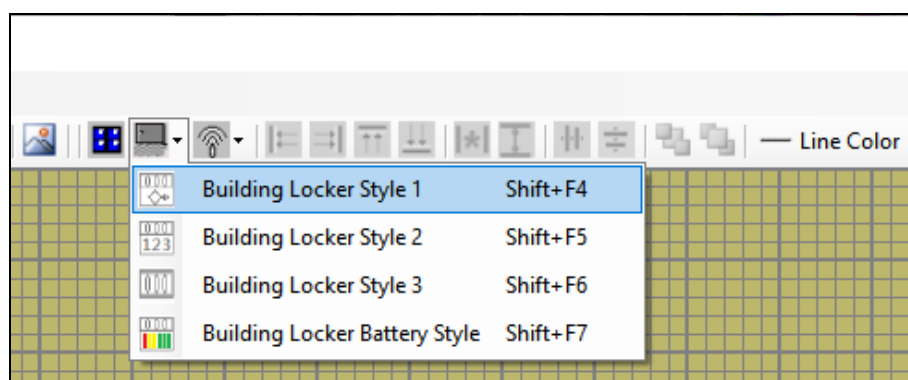
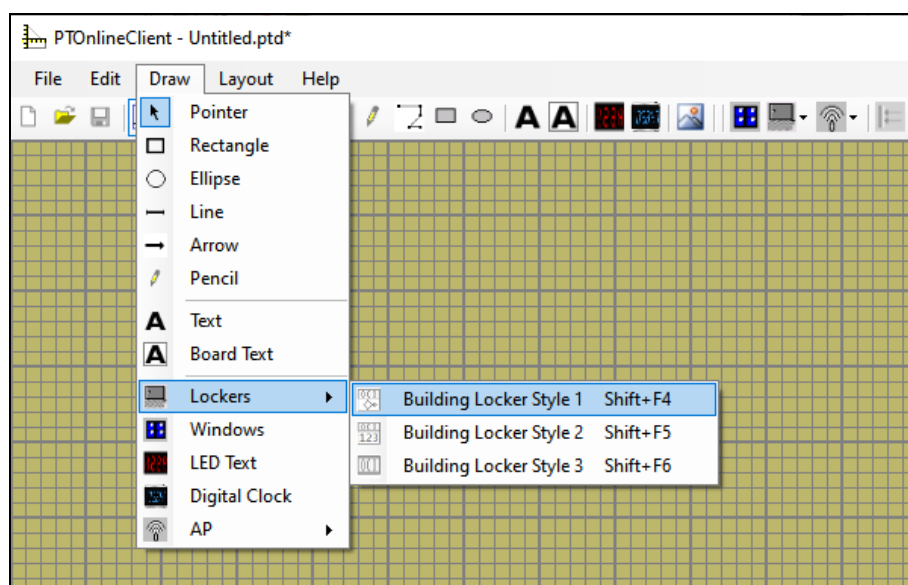
- ② Click 'New' button to create a new layout.



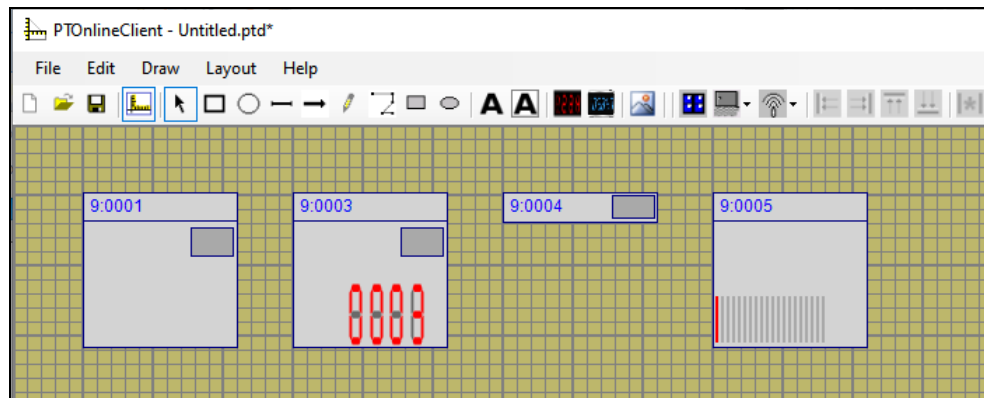
- ③ Set Building, Group and Lock ID from 'Layout Info' tab on the right side of the screen. The information must be same with the information in Server and Client program.
Check 'Lock number auto-increment' checkbox to increase locker number automatically when you create locker icons. You can select locker number from the box and delete it by clicking 'Selected Delete' if you do not want to create the number of locker icon. If you click 'Reset' button, deleted numbers will be shown again.
'Title Display Option' enables you to choose how to show group ID on the monitoring.

Object	Panel Page	Layout Info.
<input checked="" type="checkbox"/> Lock number auto-increment		
Building No.	1	
Group No.	9F	
Lock No. List	1	1000
1	6	11
2	7	12
3	8	13
4	9	14
5	10	15
		16
		17
		18
		19
		20
		21
		22
		23
		24
		25
<input type="button" value="Reset"/> <input type="button" value="Selected Delete"/>		
Title Display Option		
<input type="radio"/> Group Numeric Display <input checked="" type="radio"/> Group Floor('1F' ~ '99F')Display		

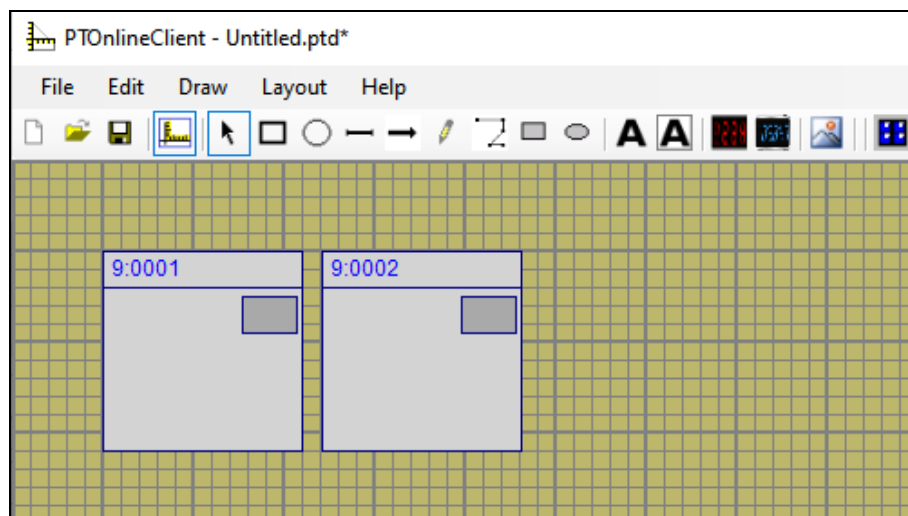
- ④ After setting locker icon information, click 'Draw' menu and select locker design from 'Locker', or click 'Draw' icon from tool bar to create a locker icon.



- ⑤ You can select locker icon design depending on your preference.



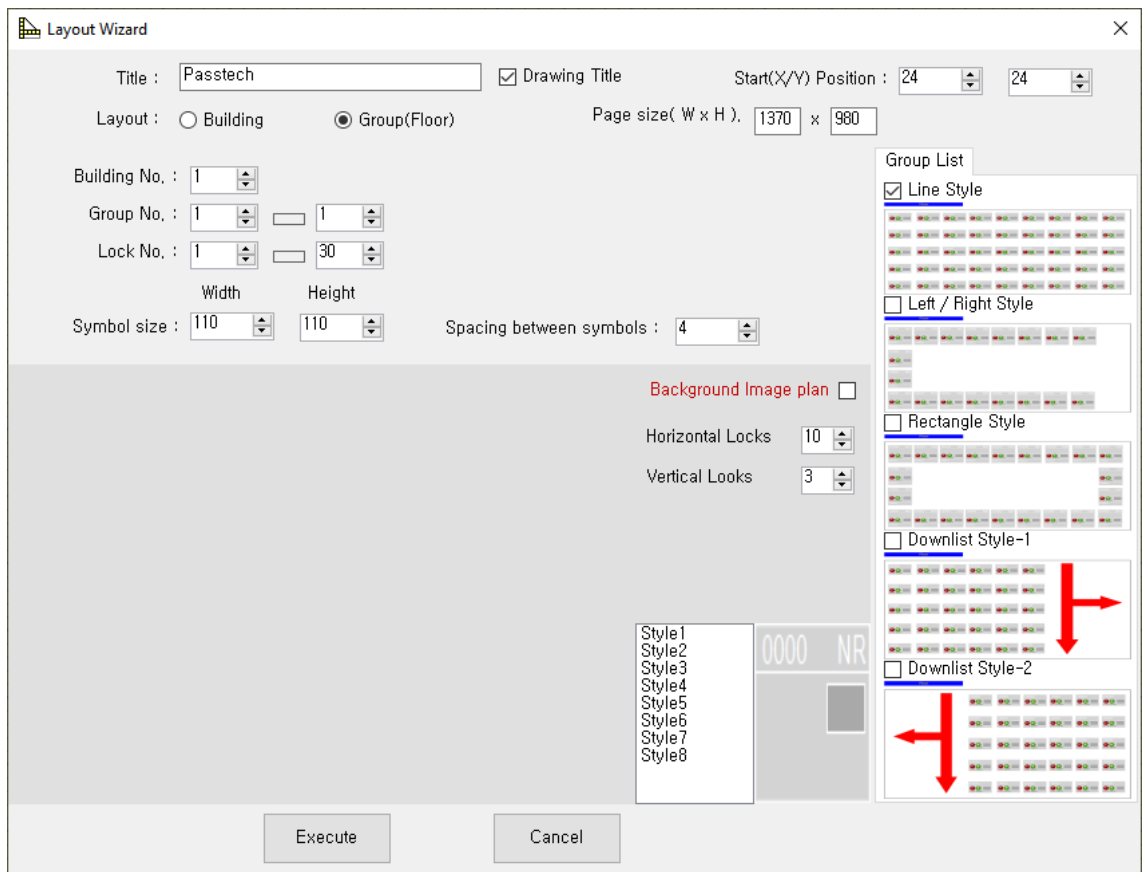
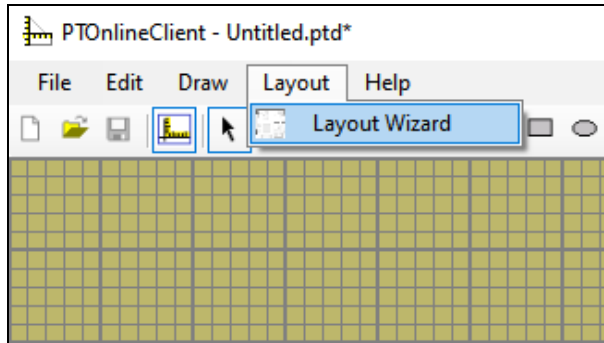
- ⑥ If you click the point where you want to locate the locker icon, it shows on layout with the information you set on 'Layout Info' tab.



- ⑦ You can click the icon and drag to relocate on the layout.
 ⑧ Repeat ③, ④ to create more locker icons in same building and group.

(2) Draw locker icon at once by using Layout Wizard

- ① Click 'Layout Wizard' from the 'Layout' menu.

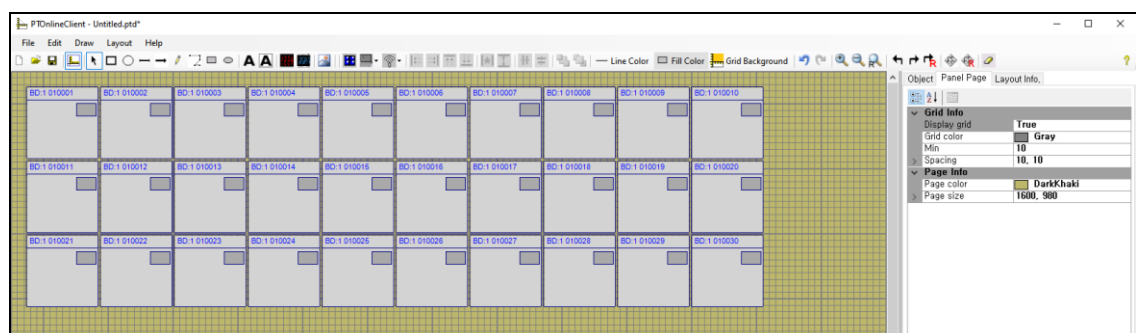


- ② Input values referring to the description below.

Item	Description
Title	Input the name for the locker set
Drawing Title	Check if you want to display the title name for the locker set
Start(X/Y) Position	Input the (X/Y) point where you want to start your locker set You can check (X/Y) point by pointing mouse on the layout board, and check the mouse point at the bottom of the display
Layout	Select 'Building' to create locker icons which have same lock range, but different Group number at once Select 'Group(Floor)' to create locker icons in one group(floor)
Page size (W x H)	Input the total page size (W x H)
Building No.	Input Building Number
Group No.	Input Group Number
Lock No.	Input Lock Number range from ~ to ~.
Symbol size	Input the symbol size for Width and Height (Default: W=110, H=110)
Spacing between symbols	Input the spacing between symbols (Default: 4)
Background Image Plan	Check if you want to use background image Popup panel will be shown to open a background image
Horizontal/Vertical locks	Input the numbers for horizontal and vertical line (Default: Horizontal=10, Vertical=3)
Style	Select lock design style
Group List	Select direction of creating locker set

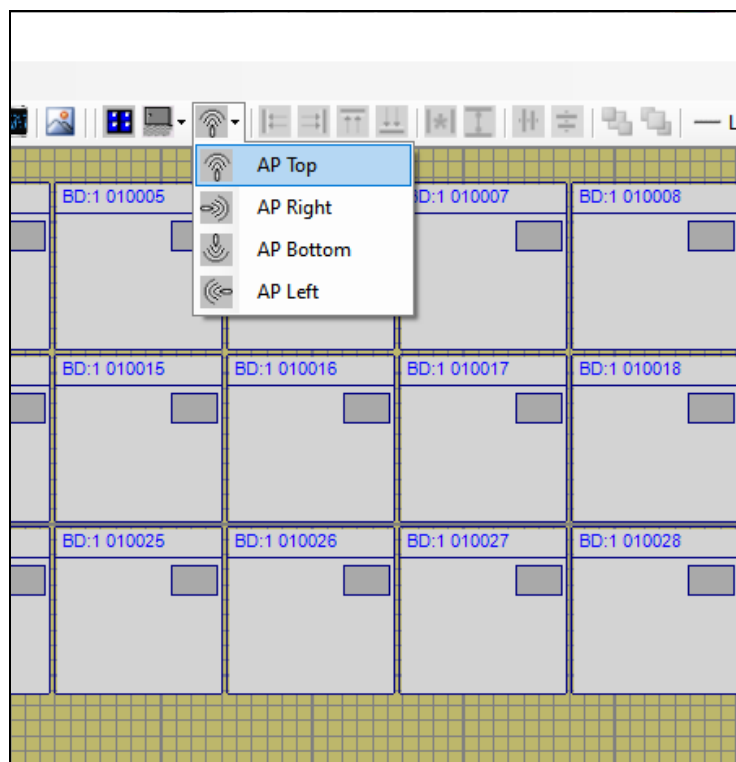
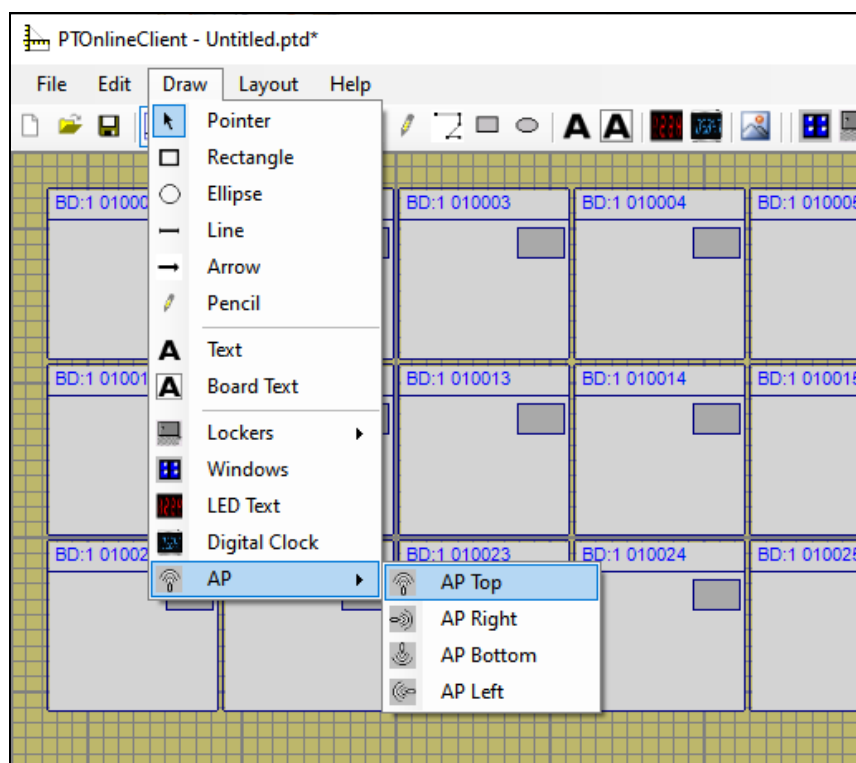
- ③ Click "Execute" button to create the locker set.

Then, the locker set will be automatically arranged on the layout board.

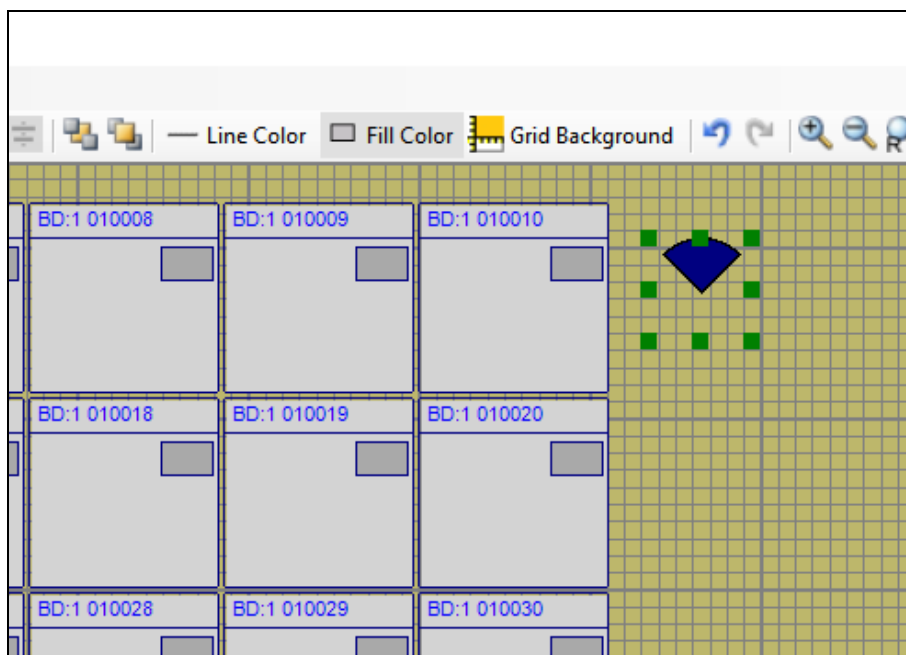


(3) Draw AP icon

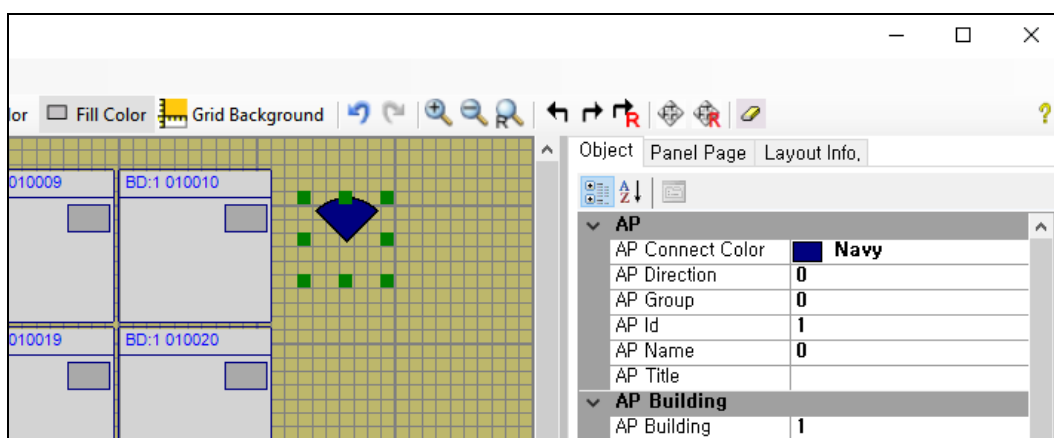
- ① Click 'Draw' menu and select 'AP', or click 'AP' icon from tool bar to create AP icon.



- ② Click a point where you want to place the icon on layout board.



- ③ Click the AP icon and set values for displaying AP status on monitoring in Client program.

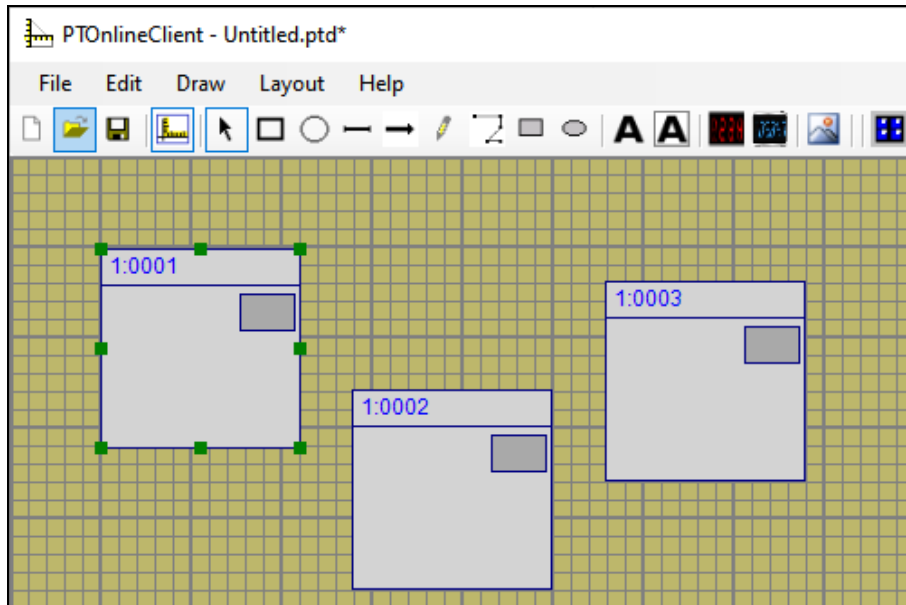


Change the following items referring to the description.

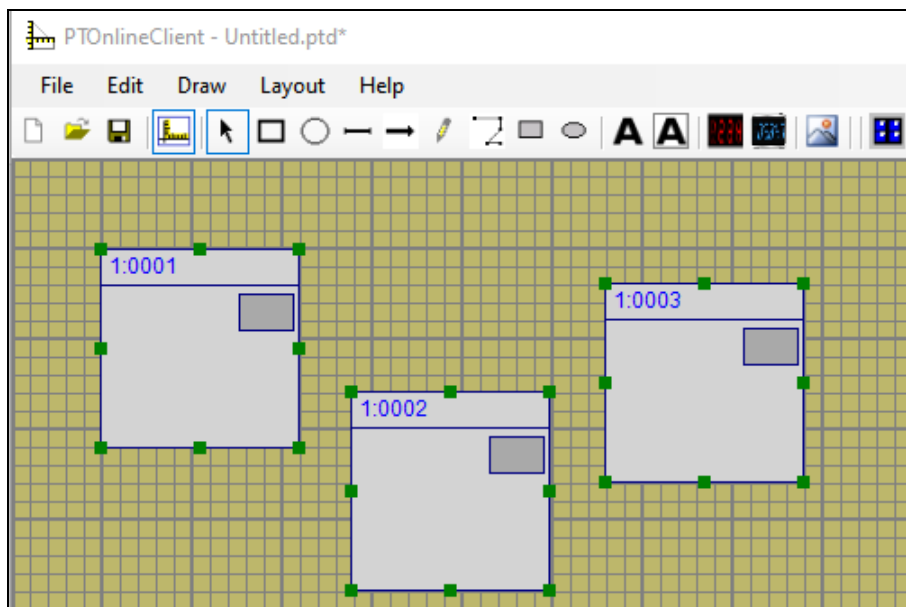
Item	Description
AP Direction	0=Top, 1=Right, 2=Bottom, 3=Left
AP group	Input same Group number as you set in AP account in Client program
AP id	Input same AP Layout ID as you set in AP account in Client program
AP Building	Input same Building number as you set in AP account in Client program

(4) Align locker icons

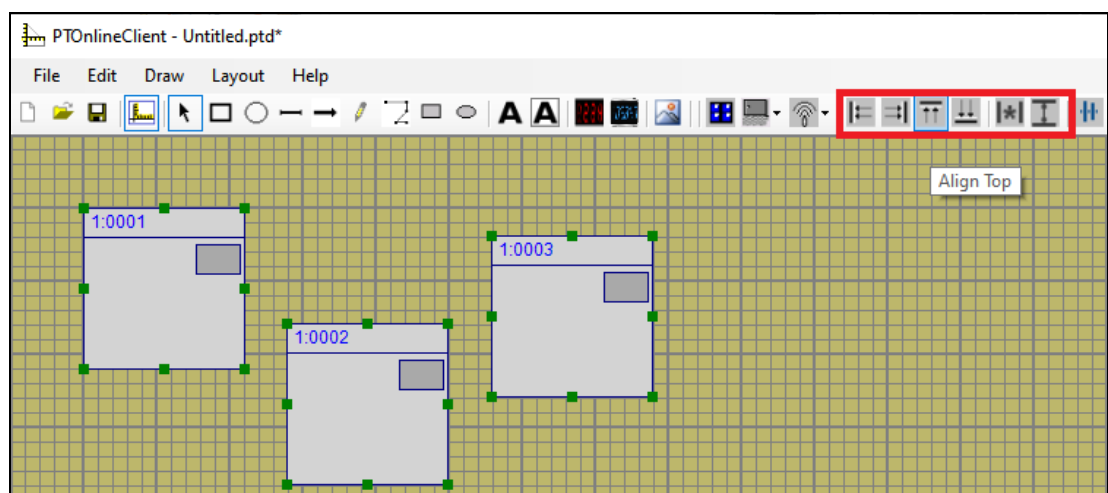
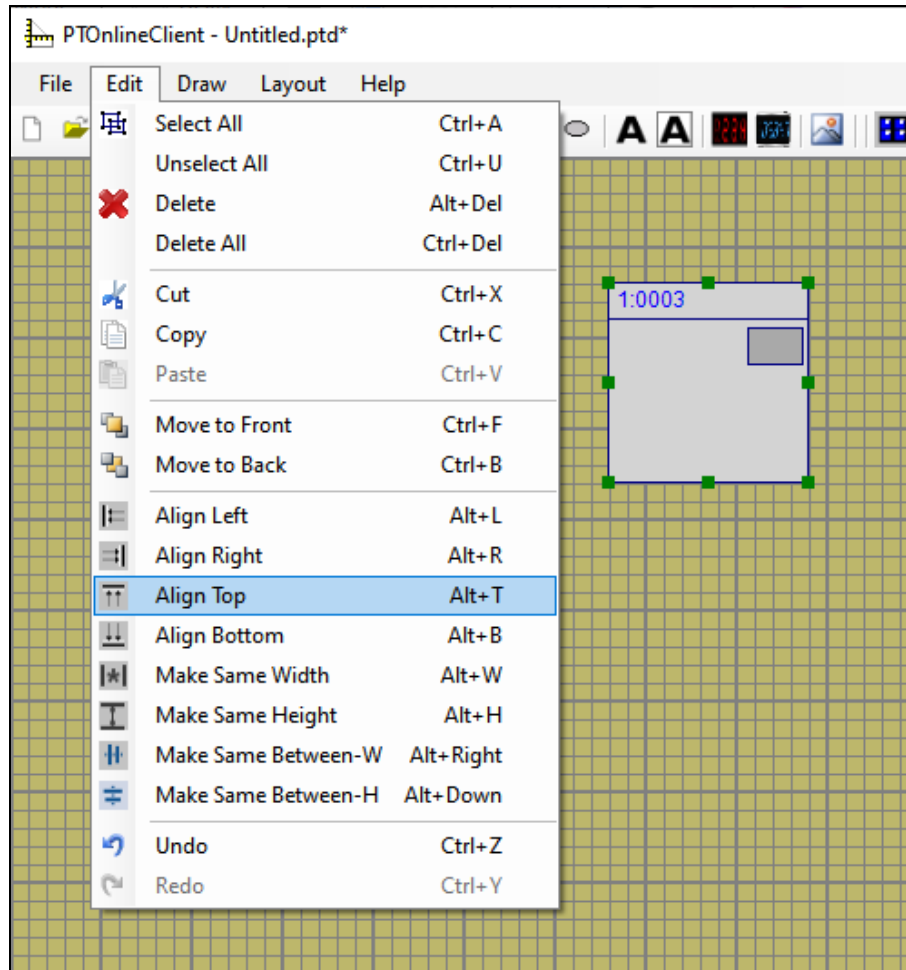
- ① Select a base locker icon you want to sort by.

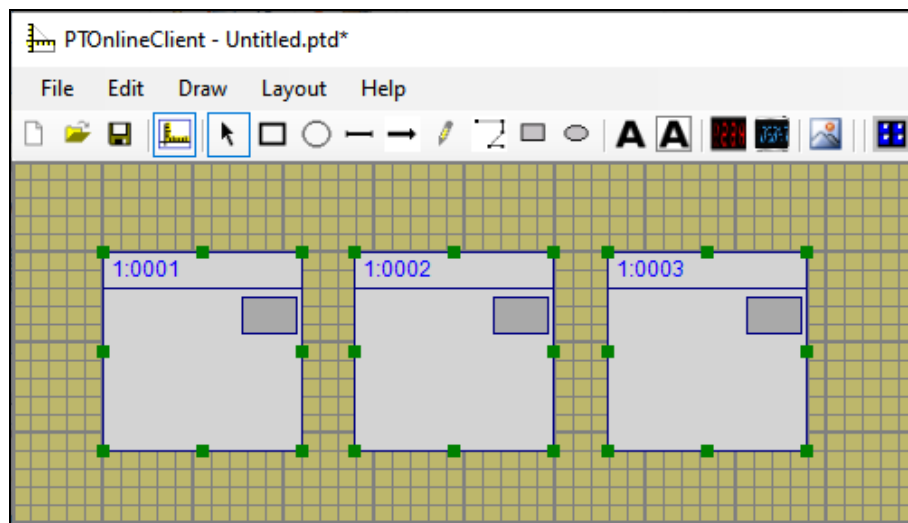


- ② Press 'Ctrl' button on a keyboard, and click or drag other locker icons to select for alignment.

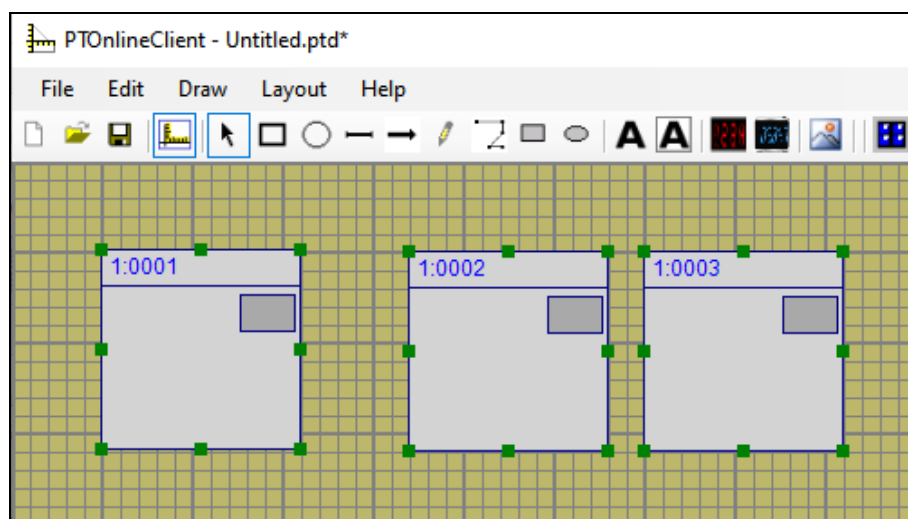
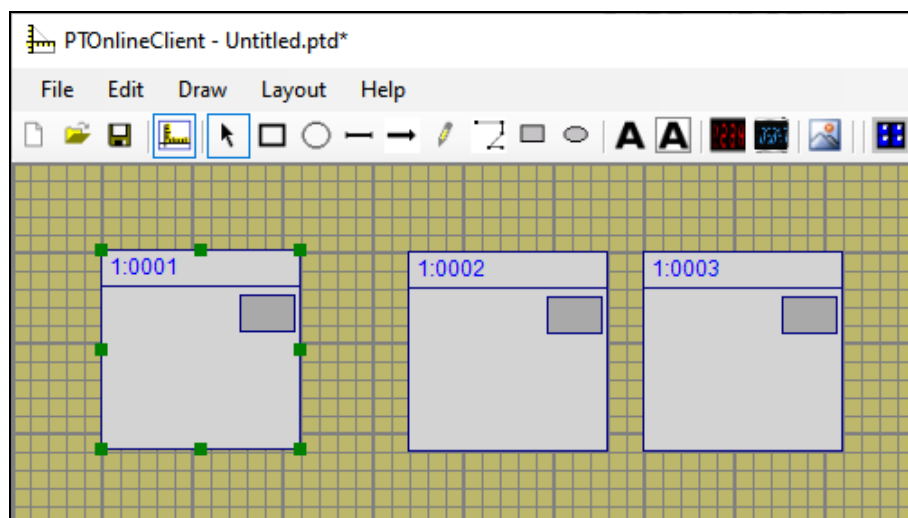


- ③ Click 'Edit' menu and select alignment type, or select it directly from the tool bar.
You can align with the top, bottom, left and right of the first selected locker icon.

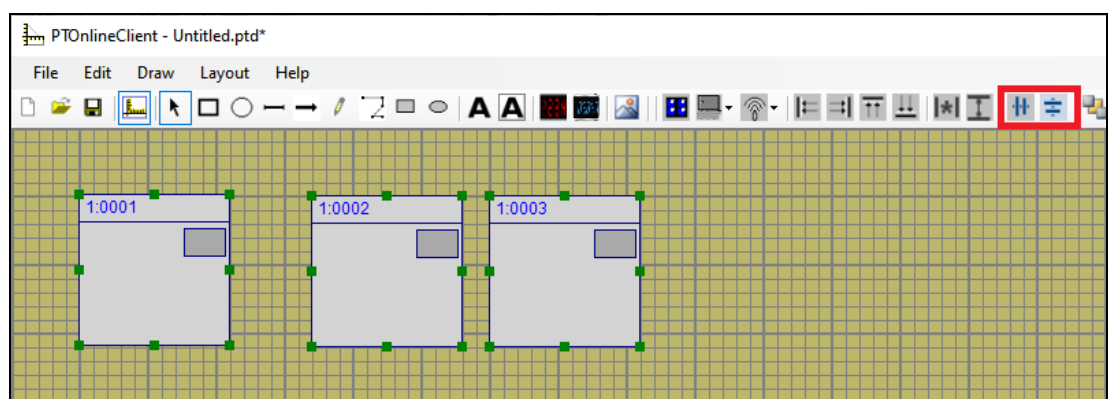
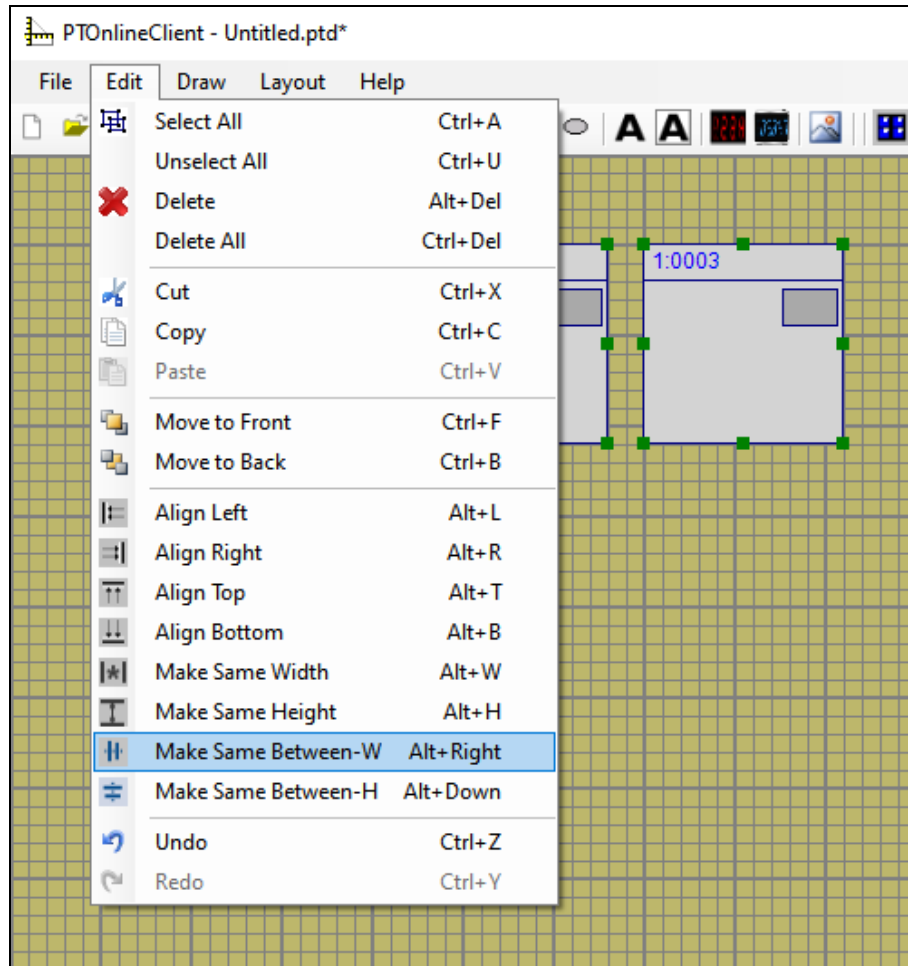




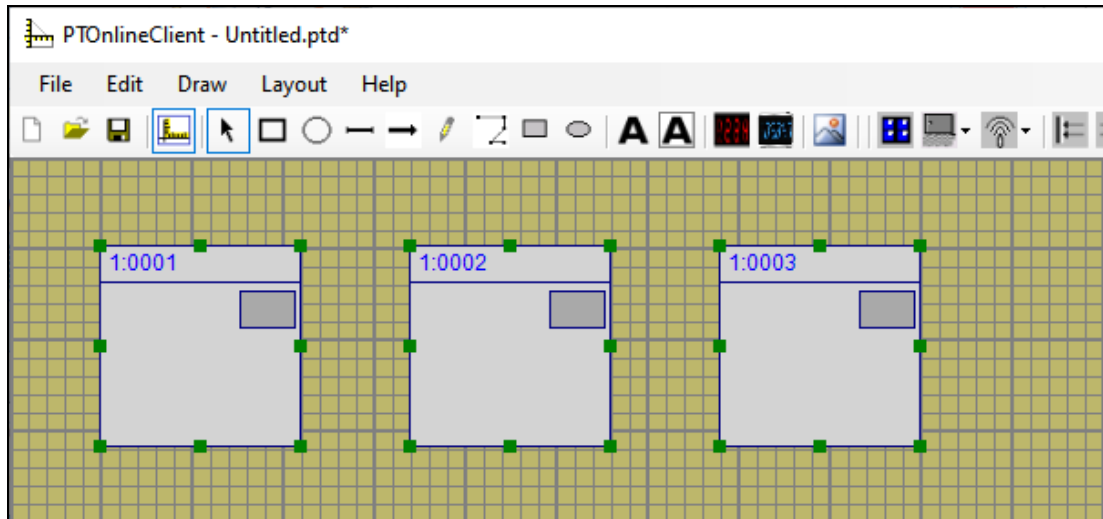
- ④ You can also align the space between locker icons.
Select a base locker icon and click or drag others while pressing 'Ctrl' button to select.



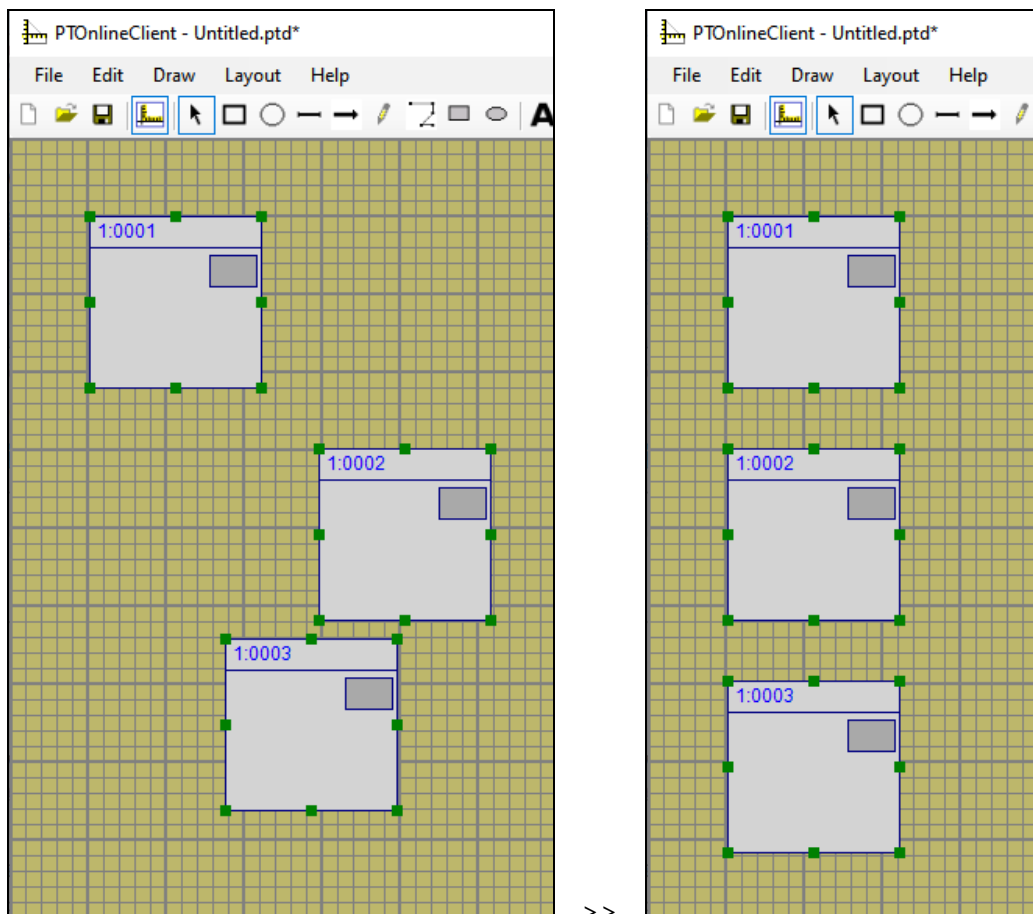
- ⑤ Click 'Edit' menu and select distribution type, or select it directly from the tool bar.
You can distribute horizontally or vertically.



- ⑥ Selected locker icons will have same space between them with the space between first selected locker icon and second selected icon.

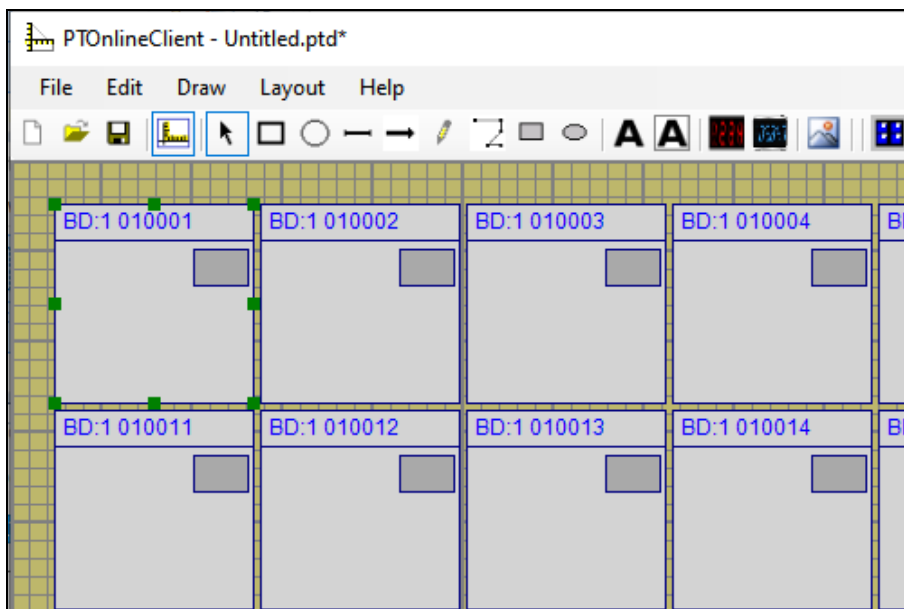


*Distribute Vertically



(5) Edit locker icon information

- ① Select a locker icon you want to edit the information of from the layout board.



- ① You can change the following items from 'Layout Info' tab on the right side of the screen referring to the description.

Item	Description
Change Building No.	Input building number you want to change to, and click 'All Lock BD. Change' or 'Selected Lock BD. Change' button
Change Group No.	Input group number you want to change to, and click 'All Lock Group Change' or 'Selected Lock Group Change' button
Change Latch Position	Latch=Small box in the locker icon Choose latch position, and click 'All Lock Change' or 'Selected Lock Change' button 1=Right top 2=Left Top 3=Next to Lock ID (Building, Group, Locker number) 4=Right Middle 5=Right Bottom 6=Left Middle 7=Left Bottom

Change Lock Type	Choose locker icon design and click 'All Lock Type Change' or 'Selected Lock Type Change' button (Style1=With digital number, Style2=Standard, Style3=With battery status)
Digital lock number color change	Double click 'BG(Background)' and 'FG(Foreground)' icon, and select the color you want to change to. Click 'All Lock No Color Change' or 'Selected Lock No Color Change' button
Change Digital No. Length	Input the length of digital number which shows on the locker icon, and click 'All Lock No Length Change' or 'Selected Lock No Length Change' button (Max. 6-digits including number and the alphabet)

Object Panel Page Layout Info.

☒ Lock number auto-increment
Building No.
Group No.
Lock No. List

1	6	11	16	21
2	7	12	17	22
3	8	13	18	23
4	9	14	19	24
5	10	15	20	25

Reset
Selected Delete

Title Display Option
☐ Group Numeric Display
☒ Group Floor('1F' ~ '99F')Display

Lock Building or Group Change
Change Building No.

All Lock BD. Change
Selected Lock BD. Change

Change Group No.

All Lock Group Change
Selected Lock Group Change

Change Latch Position(0~8)

All Latch Change
Selected Latch Change

Change Lock Type

All Lock Type Change
Selected Lock Type Change

Digital lock number color change.

BG
FG





All Lock No Color Change
Selected Lock No Color Change

Change Digital No. Length

All Lock No. Length Change
Selected Lock No. Length Change

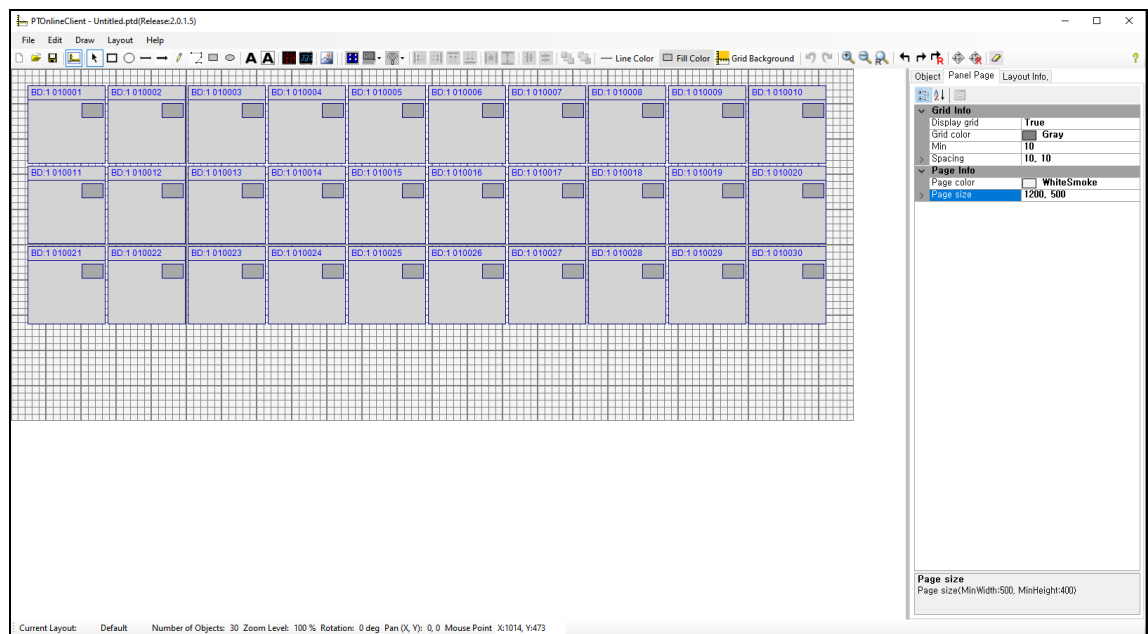
(6) Edit panel page

- ① Click 'Panel Page' tab to change page color and size.

Object	Panel Page	Layout Info.
 		
▼	Grid Info	
	Display grid	True
	Grid color	 Gray
	Min	10
>	Spacing	10, 10
▼	Page Info	
	Page color	 DarkKhaki
>	Page size	1370, 980

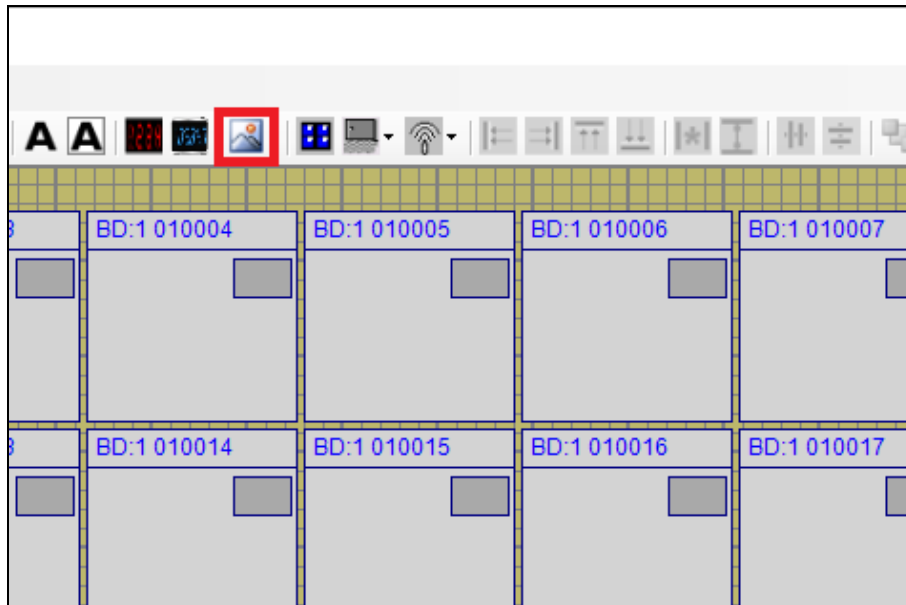
- ② Input the following items.

Item	Description
Page color	Select any color for the page background
Page size	Input the page size (W x H)

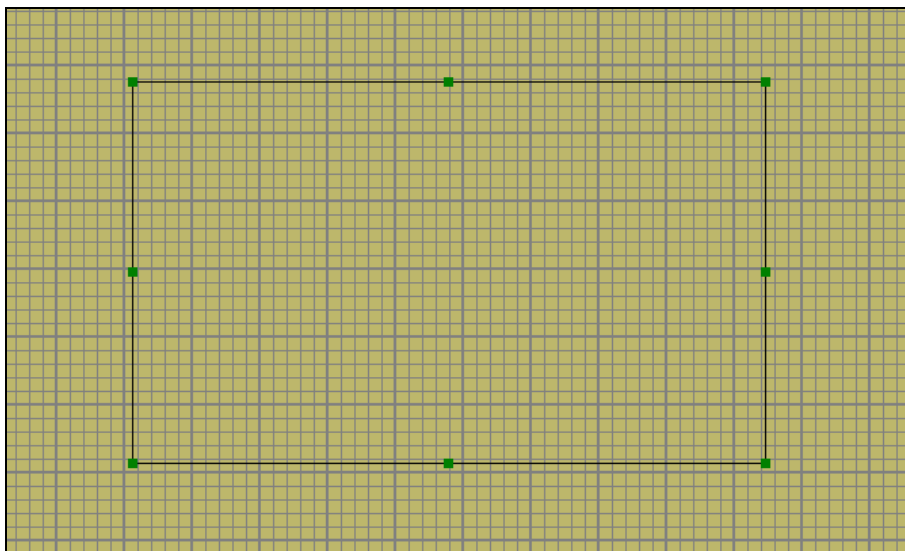


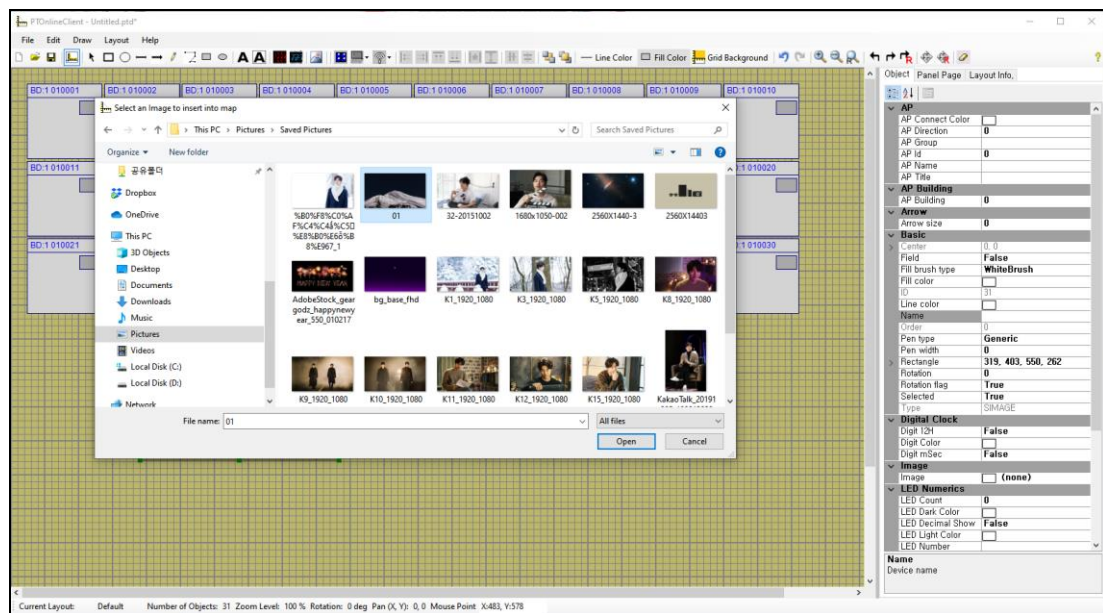
(7) Insert background image

- ① Click 'Image' icon from the tool bar.

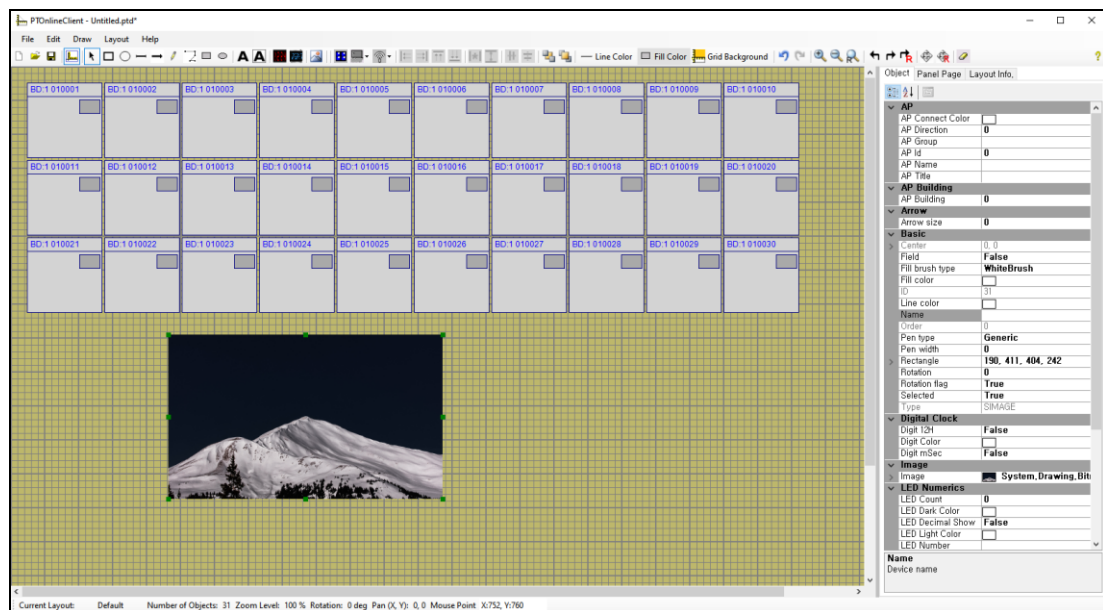


- ② Drag the mouse on the layout board.
Then, the window for selecting and opening image file will pop up.

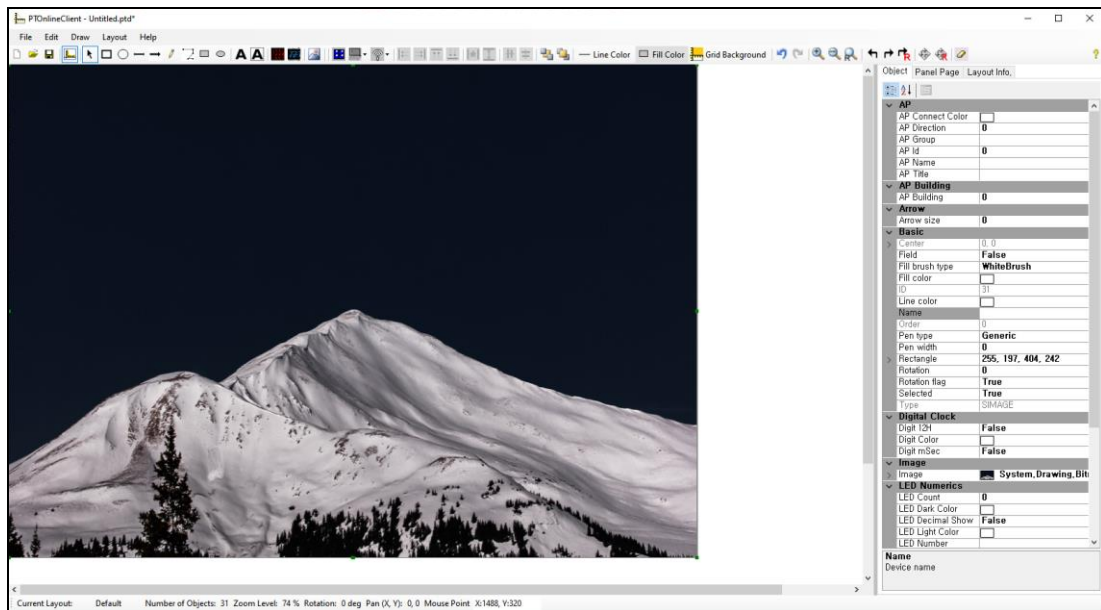




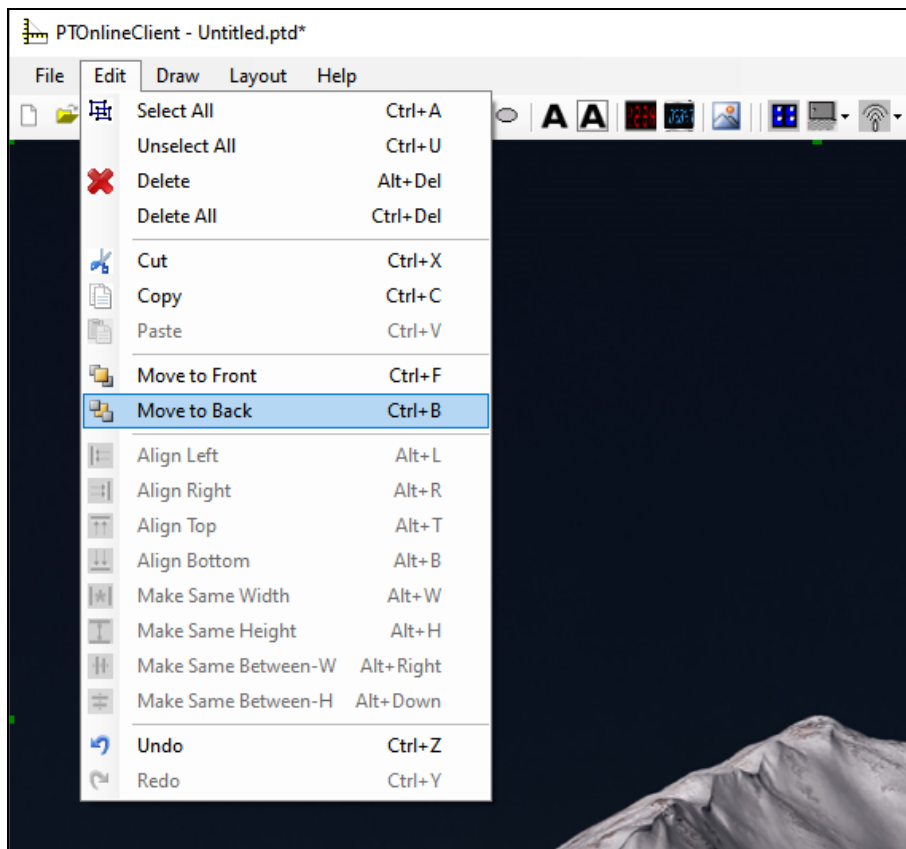
- ③ Select an image you want to use for background and open it to insert on the layout board.

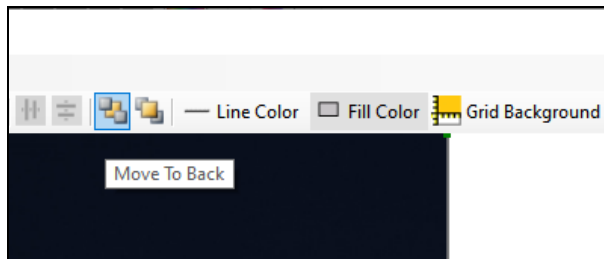


- ④ Drag the image clicking one point of the image and extend the size same as the page size.

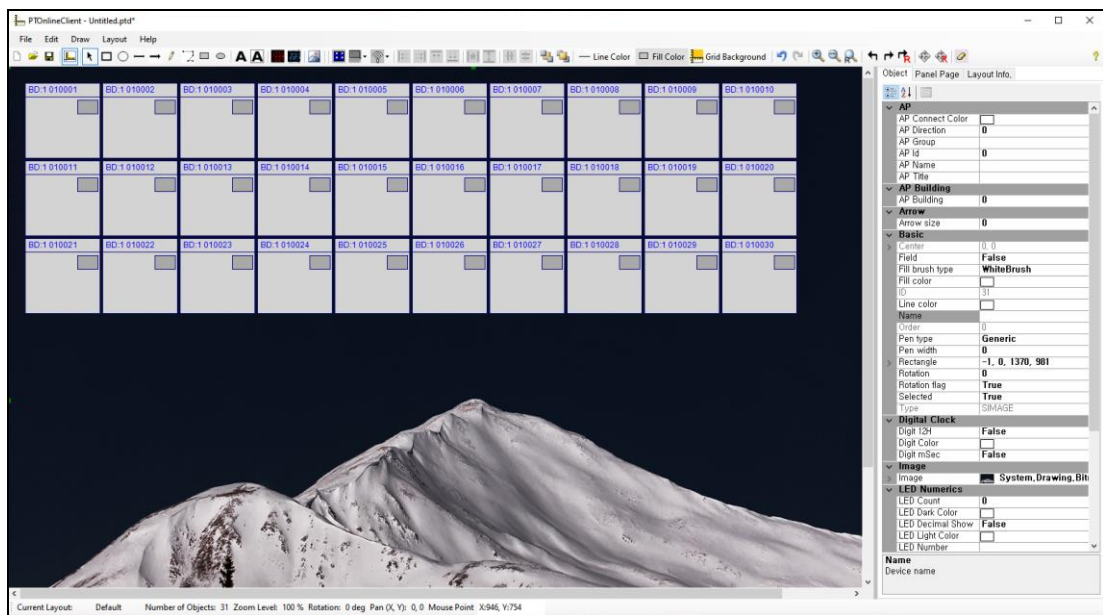


- ⑤ Click the image and select 'Move to back' from 'Edit' menu or click it from the tool bar to move it back to make locker set show.



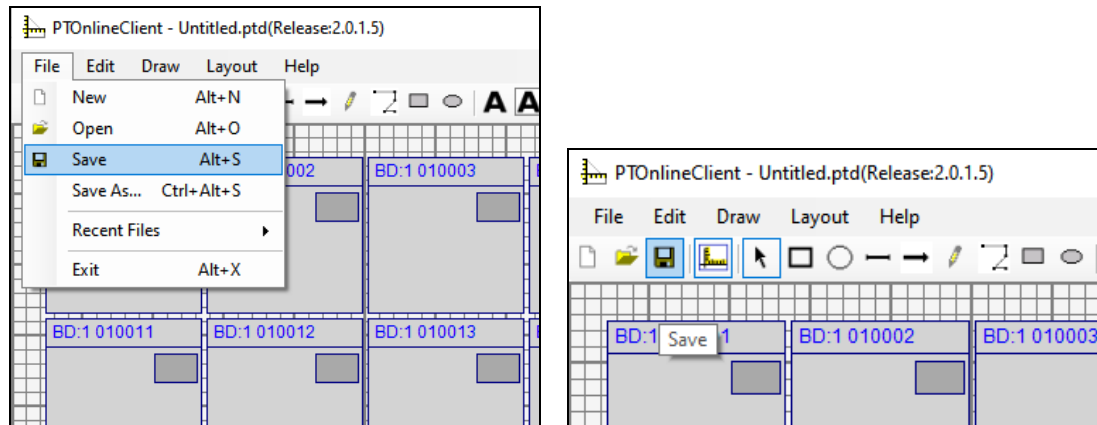


- ⑥ The image you selected became a background image.

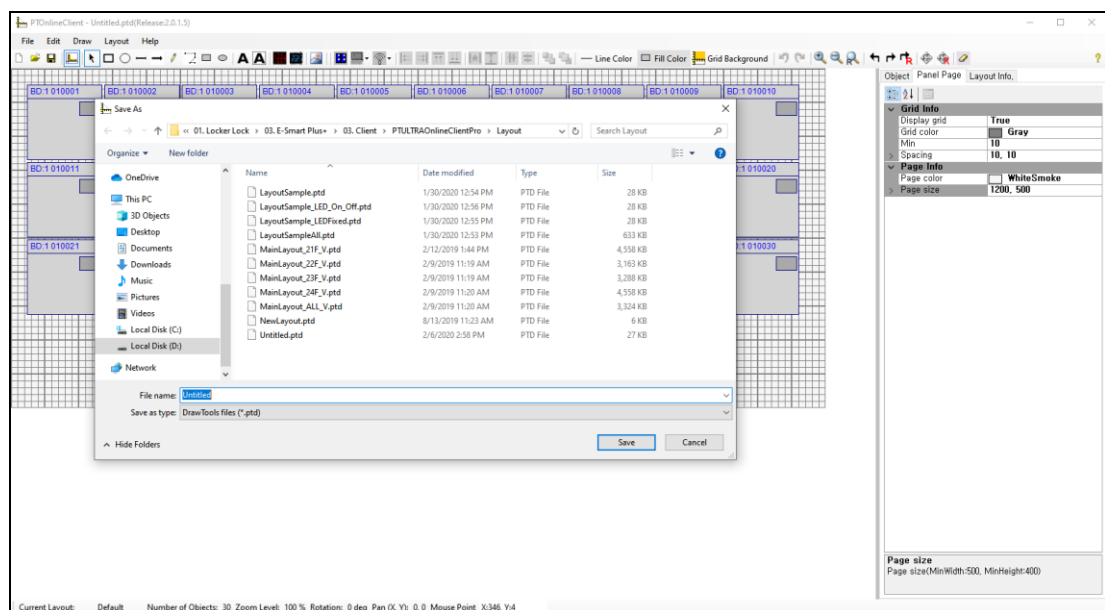


(8) Save the file

- ① Click 'File' menu and select 'Save', or click it from the tool bar.



- ② You must save the layout file in the same folder with the Client program is installed. Save it in 'Layout' folder.



- ③ Use the saved layout file when you create group account in Client program.

10. Smart Code & Mobile Key

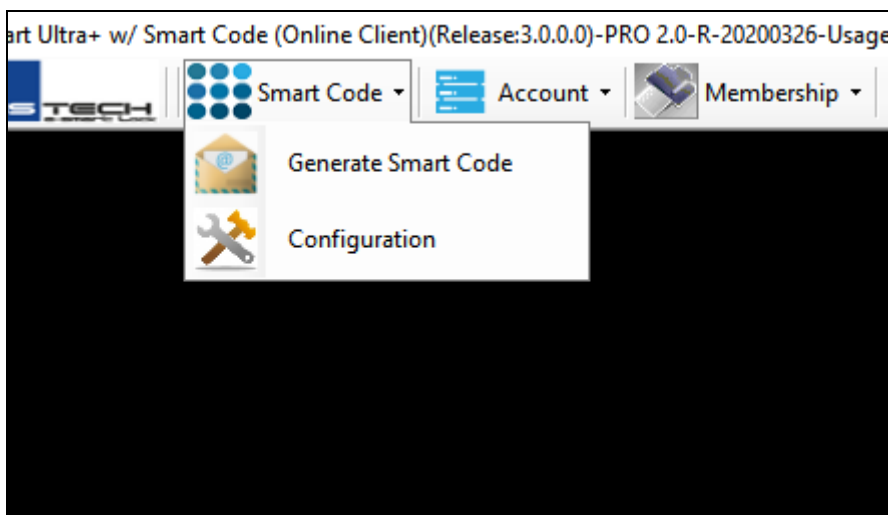
1) What is Smart Code & Mobile Key?

Smart Code & Mobile Key are secure, convenient and instant way of mobile access to E-smart locks. Time-sensitive 8-12-digits code and encrypted digital key are generated via Offline (Esmart Ultra Plus+) or Online (Esmart Cloud Server), and access to a specific locker lock or door lock which is granted through the internet from anytime anywhere in the world.

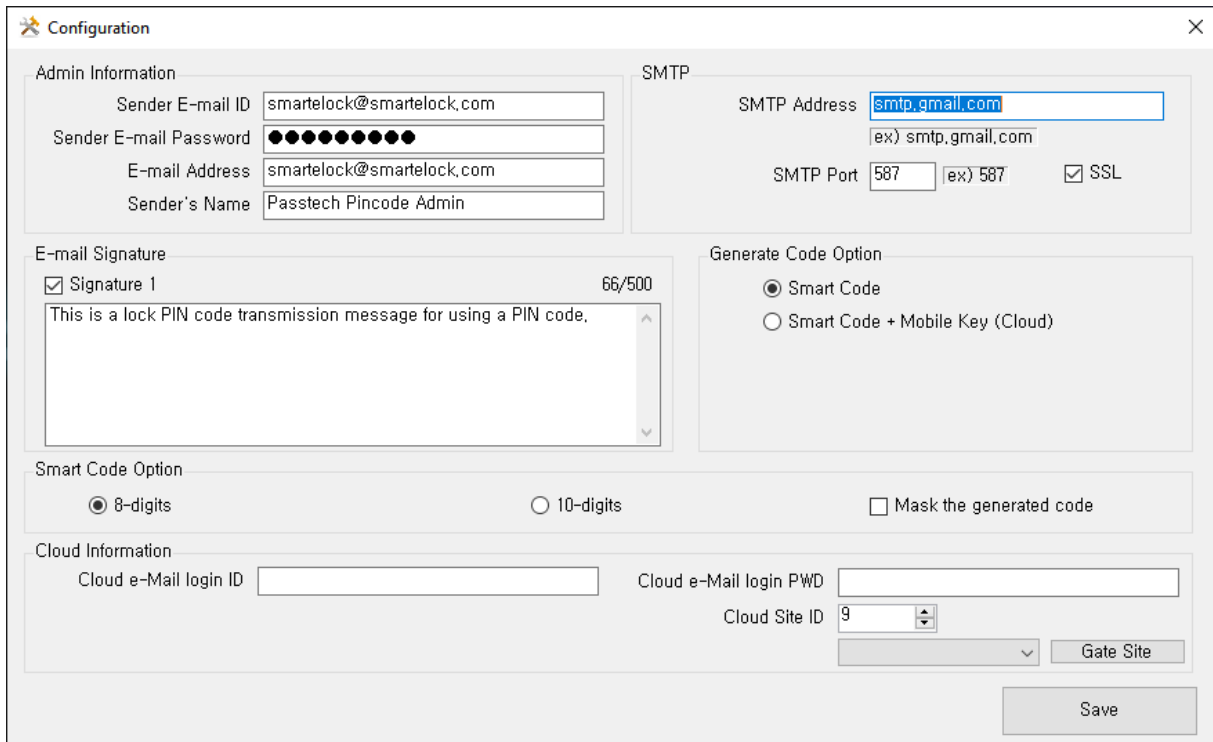
All the locks are operating completely offline without the risk of malfunction.

Users can use their access codes and mobile keys only for a specific time period, and access privilege will be automatically expired when the granted time period is over.

2) Smart Code Menu List



3) Configuration



The Configuration window is divided into several sections:

- Admin Information:** Includes fields for Sender E-mail ID (smartelock@smartelock.com), Sender E-mail Password (masked), E-mail Address (smartelock@smartelock.com), and Sender's Name (Passtech Pincode Admin).
- SMTP:** Includes SMTP Address (smtp.gmail.com), SMTP Port (587), and a checkbox for SSL.
- E-mail Signature:** Includes a checkbox for Signature 1 and a text area for the signature content.
- Generate Code Option:** Includes radio buttons for Smart Code and Smart Code + Mobile Key (Cloud).
- Smart Code Option:** Includes radio buttons for 8-digits and 10-digits, and a checkbox for Mask the generated code.
- Cloud Information:** Includes fields for Cloud e-Mail login ID, Cloud e-Mail login PWD, and Cloud Site ID (9).

A Save button is located at the bottom right of the window.

- Main Item Description

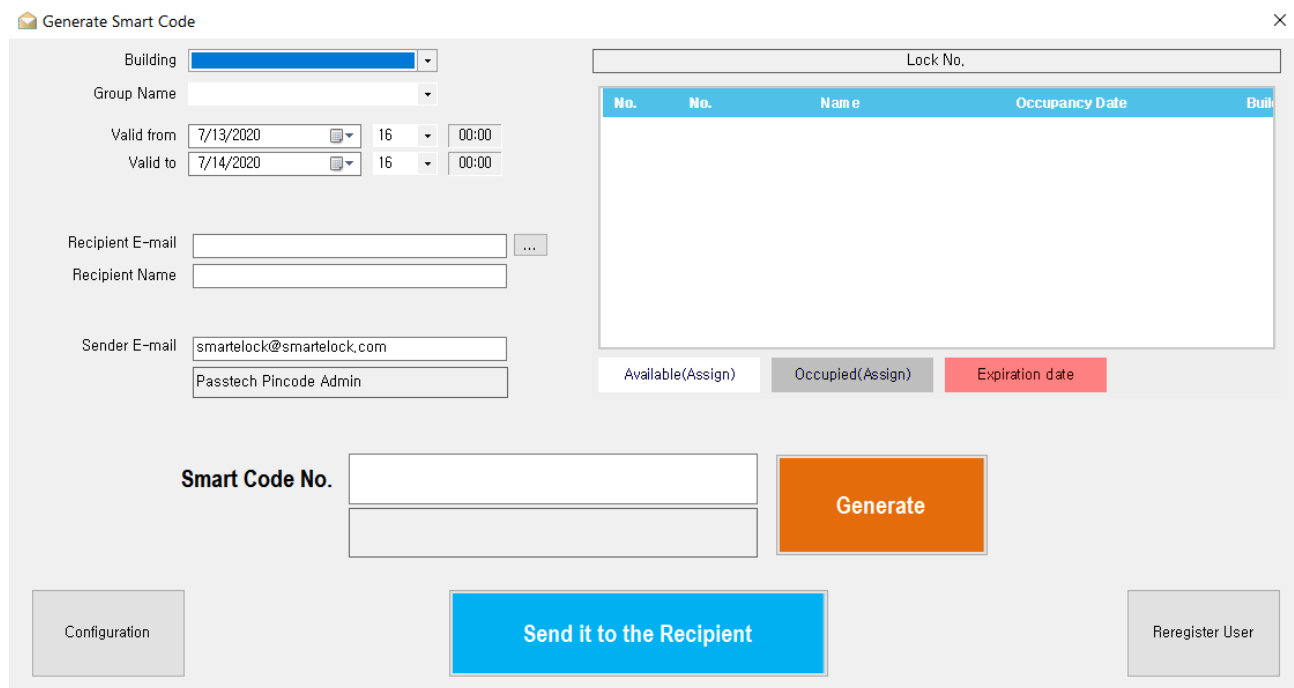
Group	Item	Description
Admin Information	Sender E-mail ID	Email ID which will send the Smart Code or Mobile Key (smartelock@smartelock.com is set as default)
	Sender E-mail Password	Password of the Sender's E-mail ID Set as default
	E-mail Address	E-mail address of the Sender (smartelock@smartelock.com is set as default)
	Sender's Name	The sender's name Passtech Pincode Amin (set as default)
SMTP	SMTP Address	Set SMTP address for your sender E-mail ID (smtp.gmail.com is set as default for Gmail)
	SMTP Port	Set SMTP Port number (587 is set as default for Gmail)
	SSL	Select to use SSL(Secure Socket Layer)
Email Signature	Signature 1	Set the phrases for the email content when user receives the Smart Code (Max. 500 characters)

Generate Code Option	Smart Code	Select only to generate Smart Code via E-Smart Ultra+
	Smart Code + Mobile Key (Cloud)	Select to generate Smart Code and Mobile Key together via E-Smart Cloud Server
Smart Code Option	8-digits	Select to use 8-digits for Smart Code which is valid for the period you set on Client Configuration
	10-digits	Select to use 10-digits for Smart Code which can be valid up to max. of 40 days
	Mask the generated code	Select to mask the code when generated
Cloud Information	Cloud e-Mail login ID	Input the login ID for E-Smart Cloud Server provided by Passtech
	Cloud e-Mail login PWD	Input the login password for E-Smart Cloud Server
	Cloud Site ID	Click 'Gate Site' to call up the site names which is registered in the Cloud Server. Select the site name as same as you have set in Issuer Account Setting.
Save		Click 'Save' button to save the configuration setting

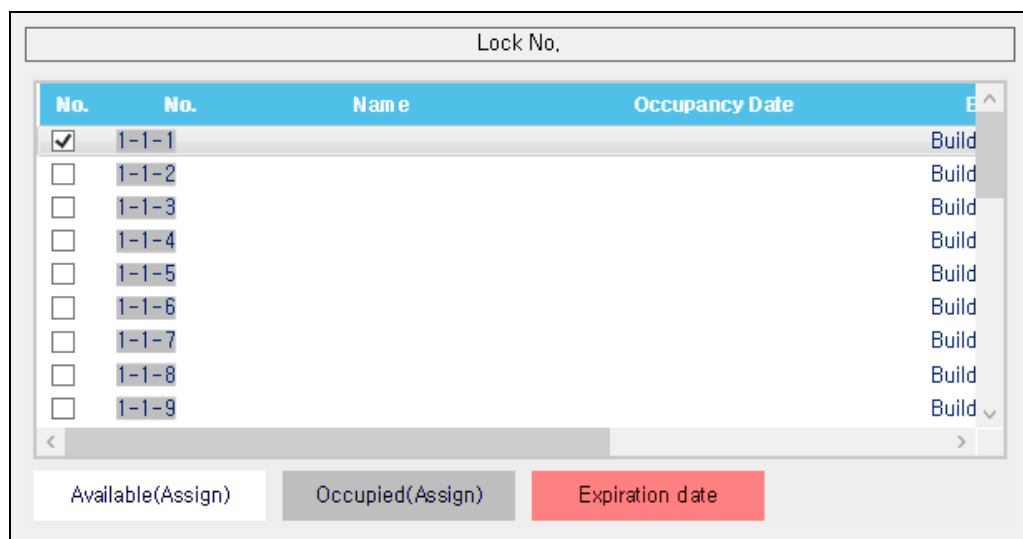
4) Generate Smart Code

(1) Generate Smart Code via E-Smart Ultra+

If you have selected 'Smart Code' for Generate Code Option in configuration, you will see the display as image showing in below when you enter the Generate Smart Code from the menu list.



- ① Select a Building name and Group name. Assign Mode locks will be shown like below. Select a Lock Number to use Smart Code from the list.



- ② Set the valid date and time.

(It will automatically set as same as your PC time by default)

Valid from

- ③ Set Usage Count as 'Unlimited', 1 time use or more (max. of 9).

Usage Count

Un-Limit
Un-Limit
1 time use
2 time
3 time
4 time
5 time
6 time
7 time
8 time
9 time

- ④ Input Recipient E-mail address and name.

You may also input the Recipient information from the member account database by clicking '' button to display the member list.


Recipient E-mail


Recipient Name

Member ID / Name


ID	Name	E-mail
<input checked="" type="checkbox"/> 1	A	abcd@abcd.com
<input type="checkbox"/> 3	B	
<input type="checkbox"/> 5	Bora	
<input type="checkbox"/> 13	Byul	
<input type="checkbox"/> 6	Eric	
<input type="checkbox"/> 16	F	
<input type="checkbox"/> 10	Gilbert	
<input type="checkbox"/> 17	H	
<input type="checkbox"/> 7	Hong	
<input type="checkbox"/> 18	J	
<input type="checkbox"/> 12	Jenny	
<input type="checkbox"/> 11	June	

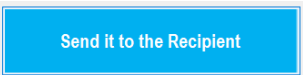
Apply Cancel



- ⑤ Press  button to generate the Smart Code.
Smart Code Number will be display as seen in below.

Smart Code No.	1976 - 6181	
	2020/02/11 17 Usage Count :0	

Smart Code Number will be display as seen in below if you have selected 'Mask the generated code' in configuration.

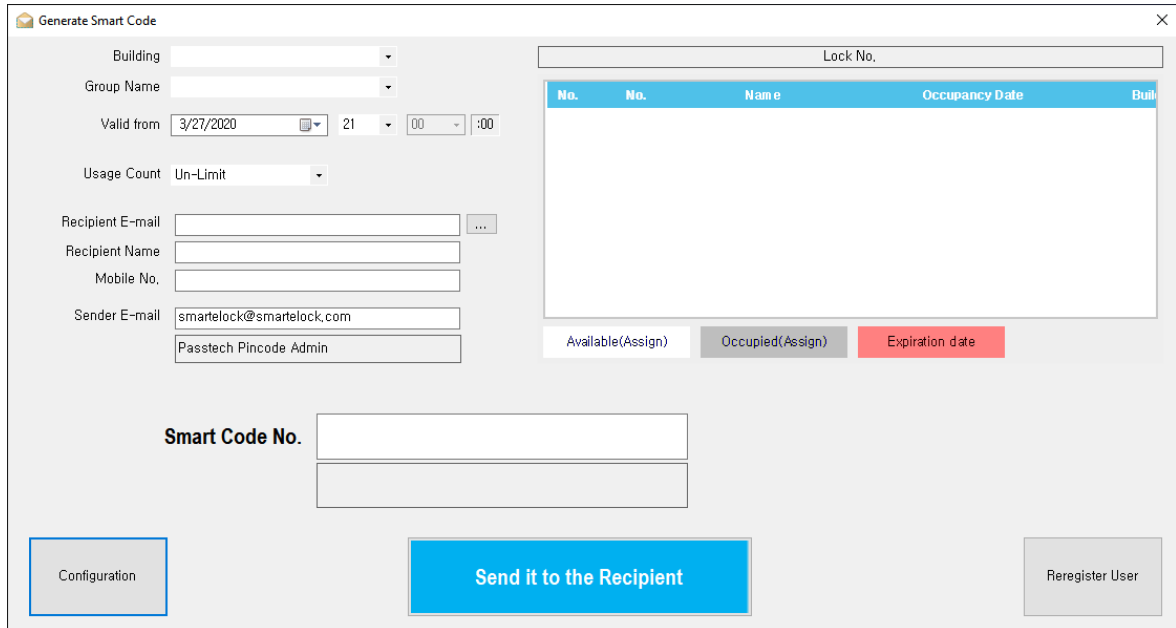
Smart Code No.	XXXX - 6181	
	2020/02/11 17 Usage Count :0	

- ⑥ Press  button to send the Smart Code to the recipient's email address. The recipient will receive an email as seen in below and use the Smart Code on the lock.

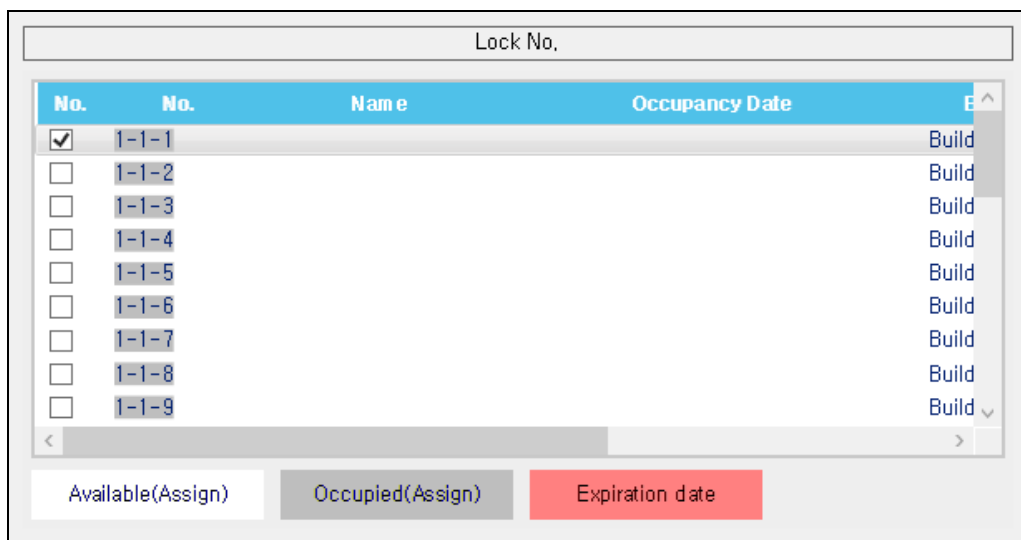
LOCK : 1-01-0002 PIN No. 		Inbox x
	smartelock@smartelock.com	
	to me ▼	
	This is a lock PIN code transmission message for using a PIN code.	
LOCK No.: 1-01-0002 PIN No. : 1976 - 6181		

(2) Generate Mobile Key via E-Smart Cloud Server

If you have selected 'Smart Code + Mobile Key (Cloud)' for Generate Code Option in configuration, you will see the display as image showing in below when you enter the Generate Smart Code from the menu list.



- ① Select a Building name and Group name. Assign Mode locks will be shown like below.
Select a Lock Number to use Smart Code and Mobile Key from the list.



- ② Set the valid date and time.

(It will automatically set as same as your PC time by default)

Valid from

- ③ Set Usage Count as 'Unlimited', 1 time use or more (max. of 9).

Usage Count

Un-Limit
Un-Limit
1 time use
2 time
3 time
4 time
5 time
6 time
7 time
8 time
9 time

- ④ Input Recipient E-mail address, name and mobile to receive the code and key.

Recipient E-mail

Recipient Name

Mobile No.

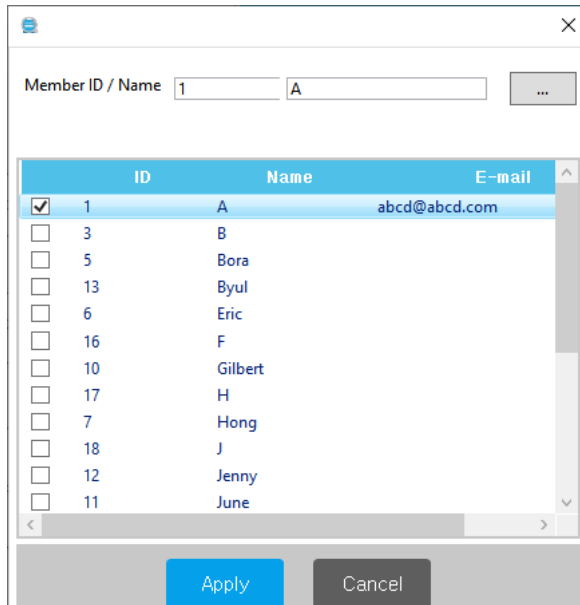
Sender E-mail

You may also input the Recipient information from the member account database by clicking '' button to display the member list.

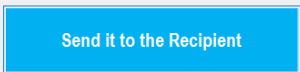
Input Member ID or Name in the white box and click '' button to search.

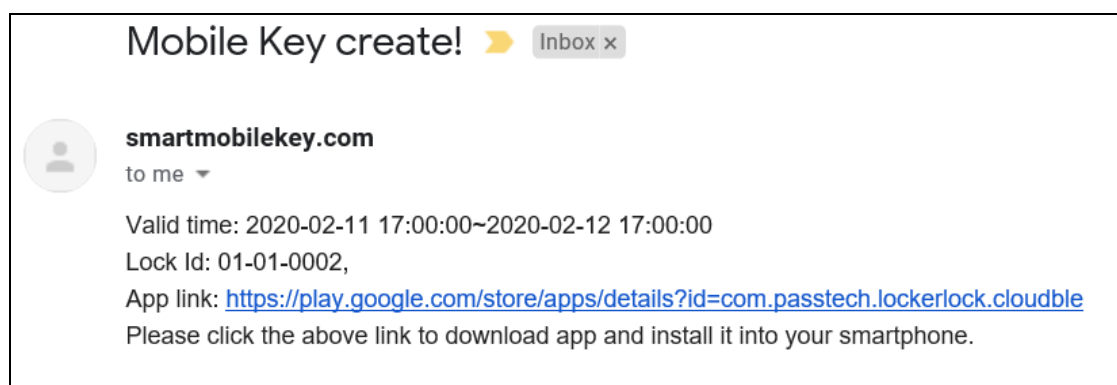
E-mail address can be registered when you create membership account.

Click 'Apply' button to apply. The recipient information will be updated.

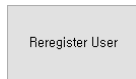


ID	Name	E-mail
<input checked="" type="checkbox"/> 1	A	abcd@abcd.com
<input type="checkbox"/> 3	B	
<input type="checkbox"/> 5	Bora	
<input type="checkbox"/> 13	Byul	
<input type="checkbox"/> 6	Eric	
<input type="checkbox"/> 16	F	
<input type="checkbox"/> 10	Gilbert	
<input type="checkbox"/> 17	H	
<input type="checkbox"/> 7	Hong	
<input type="checkbox"/> 18	J	
<input type="checkbox"/> 12	Jenny	
<input type="checkbox"/> 11	June	

- ⑤ Press  button to send Smart Code and Mobile Key to the recipient's email address. The recipient will receive two emails as seen in below and use the Smart Code and Mobile Key on the lock.



(3) Re-register User



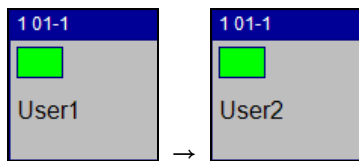
button is used to update the user information of the assigned lock.

For example, if you are generating new Smart Code or Mobile Key for User2 to lock#1 which is already used by User1 with Smart Code or Mobile Key, the new user information will be

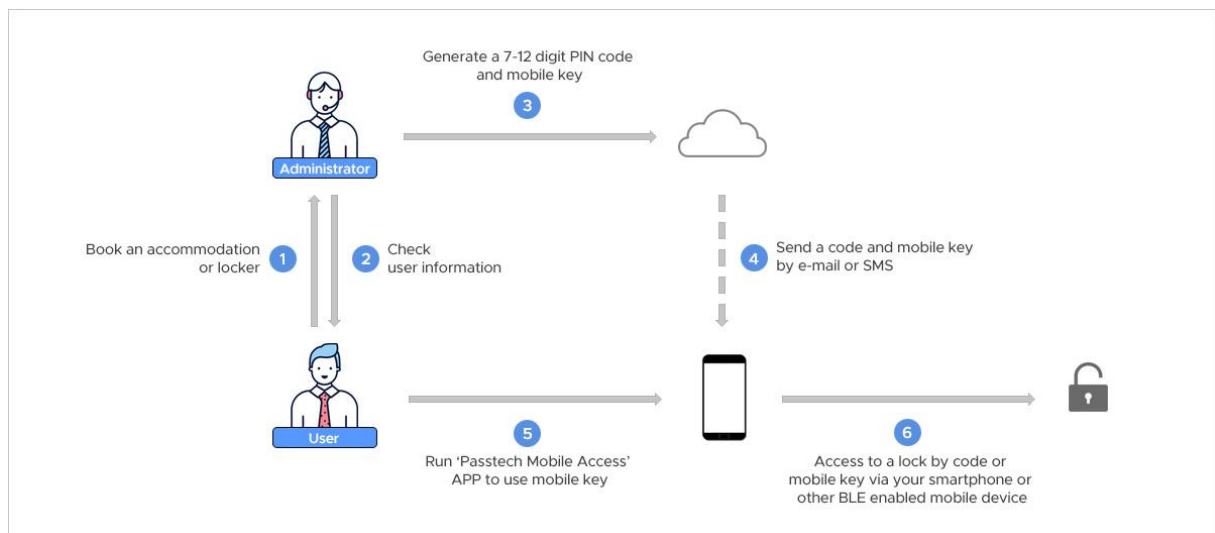
updated by pressing the



button.



5) How it works



- The End -