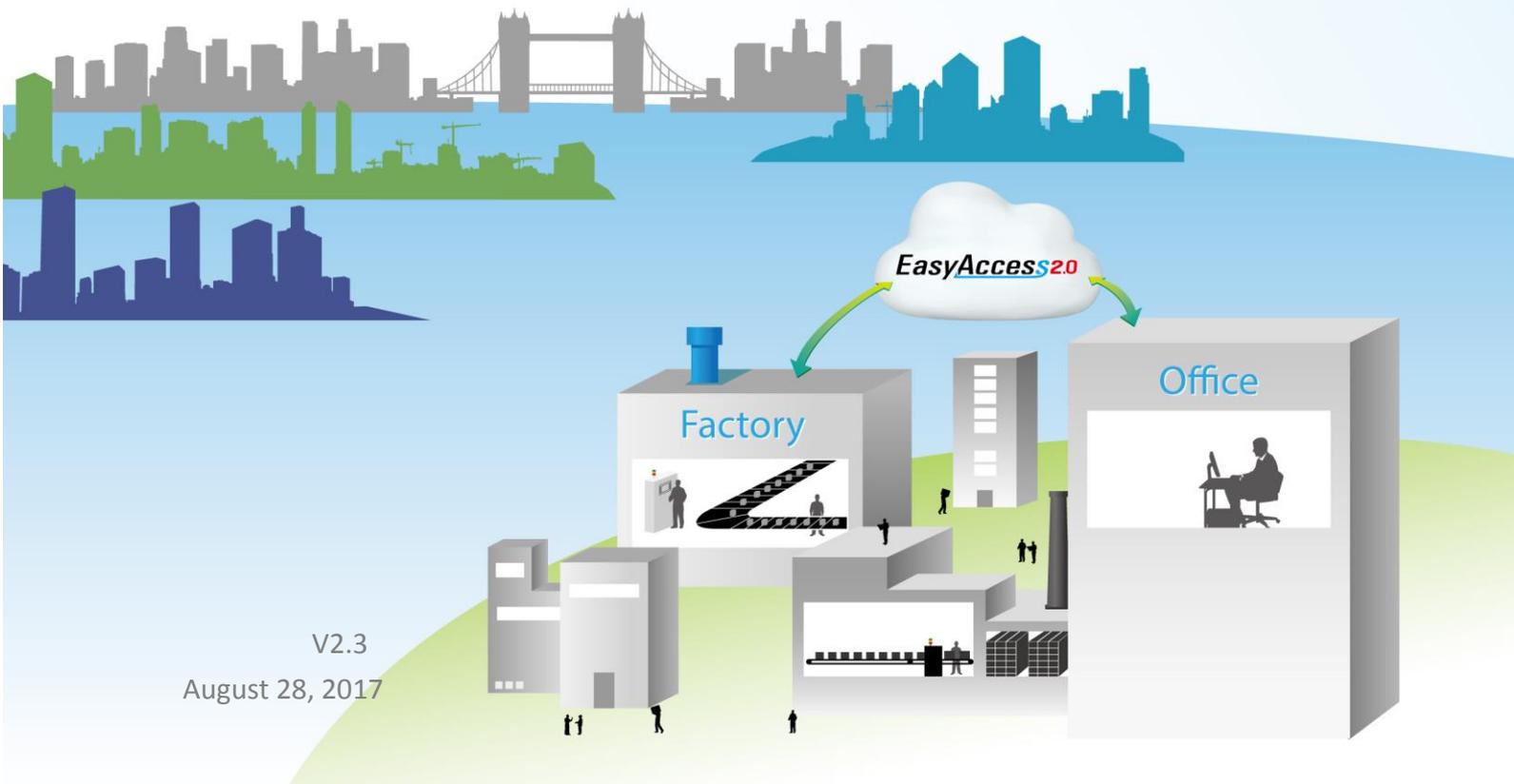




# *EasyAccess*2.0

EasyAccess 2.0 Startup Guide

*Remotely monitor and control your HMI*



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## 1. Overview

Traditionally, accessing a remote HMI is a convoluted job. Security concerns and tricky network parameters setup makes it difficult for many HMI users. And even with proper setup, access is still quite limited, allowing connection to only one HMI within the remote network. However, with EasyAccess 2.0, this has all changed.

EasyAccess 2.0 provides a new way for accessing an HMI from anywhere in the world. With EasyAccess 2.0, it becomes very easy to monitor and troubleshoot HMI and PLC that are at a remote location as long as Internet connection is available. As EasyAccess 2.0 already takes care of network settings and addresses security issues, the user can connect easily to the HMIs as if they were on the local network. Moreover, it is possible to have access multiple HMIs within a network.

EasyAccess is also a remote supporting service. Consider the case in which a machine builder has sold his machine with a Weintek HMI installed, and one of his oversea customers is reporting a problem, which may or may not require inspection by an engineer. He can remotely connect to the HMI through EasyAccess 2.0 to investigate the problem. The customer needs no extra network configuration, just Internet connection. In addition, he can also update the HMI project, monitor the PLC by Ethernet Pass-through, or even update the PLC program.

## 2. Features

- Secure connections
- Little PC setup required; no router setup required
- User friendly administrator and client UI
- Supports pass-through and proxy server
- Mobile support

## 3. System Requirement and Installation

### System Requirement

- PC Operation System: Windows XP, Windows 7, Windows 8 (32 / 64bit), Windows 10 (32 / 64bit)  
(Require Administrator privilege)
- Weintek HMI with EasyAccess 2.0 feature activated ([Eligible HMI models](#))

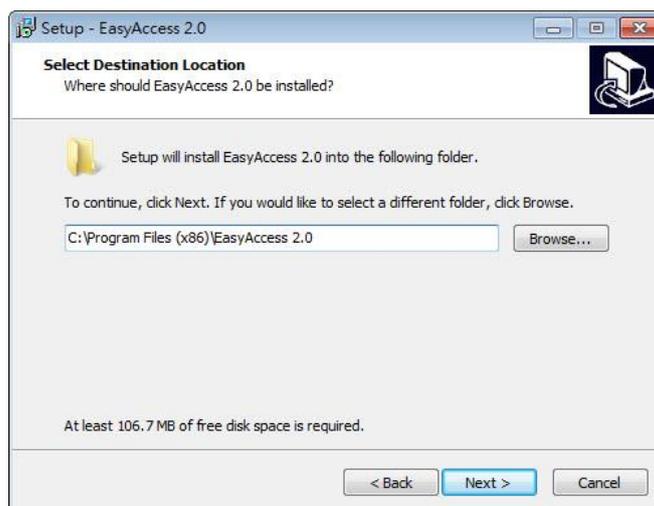
- Internet Connection
- EasyBuilder Pro V4.10.05 or later
- iPad: iOS 7.0 or above
- Android: V4.1.2 or above

## Installation

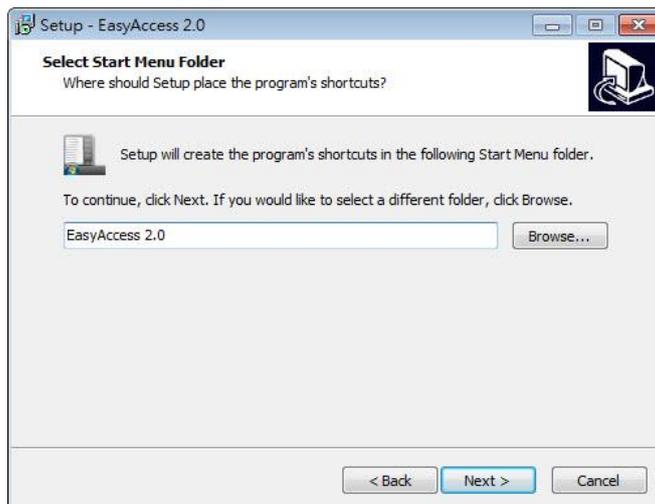
1. Download the setup.exe file from EasyAccess 2.0 homepage and open it. Select the language for the installation process, and then click [Next]. If there is a previous version of EasyAccess 2.0 on the PC, please remove it before installation.



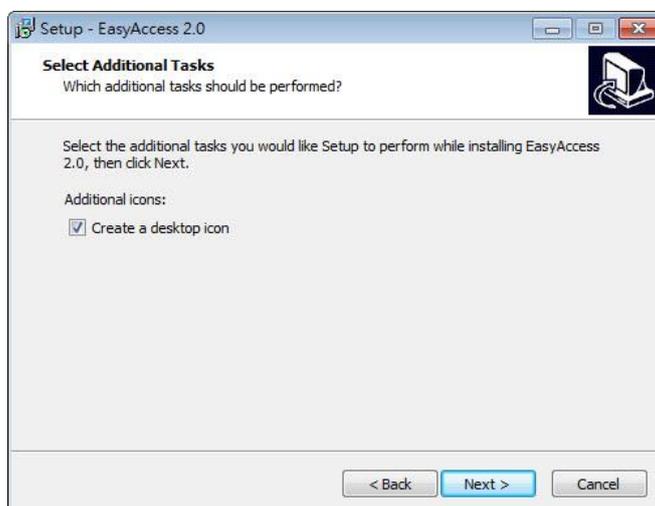
2. Select a folder for EasyAccess 2.0 installation, or use the default folder. Click [Next].



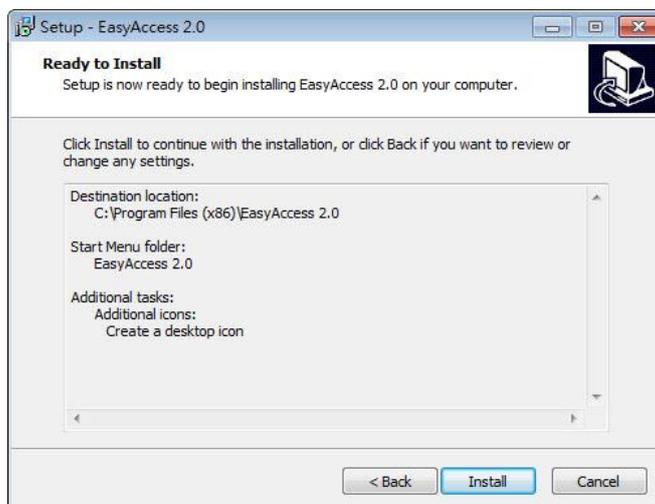
3. Select a start menu folder, or use the default folder. Click [Next].



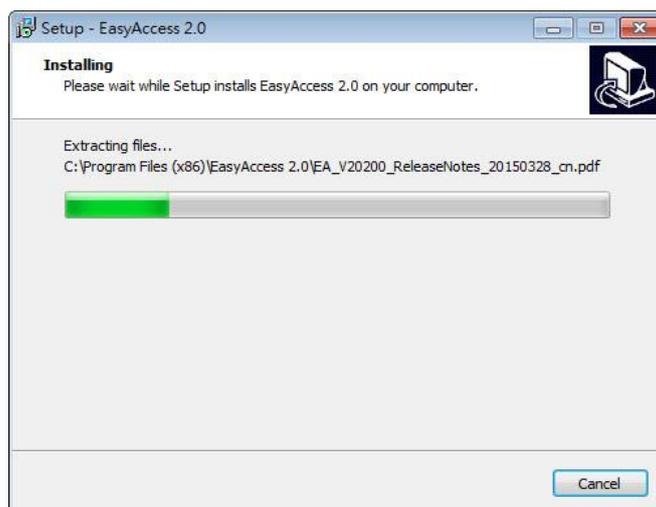
- 4. Select additional tasks, for example: [Create a desktop icon]. Click [Next].



- 5. Confirm all setting. To change the setting, click [Back]. To start installation, click [Install].



- 6. Installation progress.



7. Click [Finish] to complete the installation.



Here is a list of notable files in the installation folder:

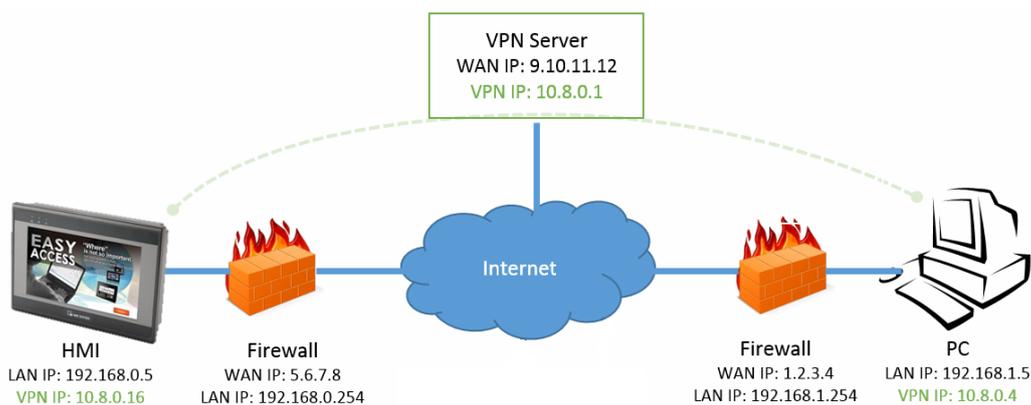
File Name	Description
cMT Viewer	The PC application for accessing a cMT HMI.
EasyAccess 2.0	The main program used to establish remote connection to an HMI.
gui_30	An essential component when using HMI Viewer to monitor a remote HMI.
PC Activator	Application for activating EasyAccess 2.0 for HMI on the network.
EA_V2xxxx_ReleaseNotes (pdf)	Release notes documenting important changes of EasyAccess 2.0 to date.

## 4. Getting Started

### Understanding EasyAccess 2.0

EasyAccess 2.0 access technology is quite different from traditional way of remote access method. Here are some notable points:

<i>Traditional remote connection (blue links)</i>	<i>EasyAccess 2.0 (green dotted links)</i>
<ul style="list-style-type: none"> <li>Connection traffic must pass through a number of firewalls, which means there are layers of network settings.</li> </ul>	<ul style="list-style-type: none"> <li>PC and HMI both connect to a dedicated VPN server through which data are exchanged, or by P2P.</li> </ul>
<ul style="list-style-type: none"> <li>Network/Router setting is mandatory; therefore, coordination with the IT department is crucial.</li> </ul>	<ul style="list-style-type: none"> <li>No additional network setting is required.</li> </ul>
<ul style="list-style-type: none"> <li>For one WAN IP, only one device can be connected.</li> </ul>	<ul style="list-style-type: none"> <li>For one WAN IP, multiple devices can be connected.</li> </ul>
<ul style="list-style-type: none"> <li>For a device behind two or more routers, connection might not be possible.</li> </ul>	<ul style="list-style-type: none"> <li>Being behind several routers does not affect EasyAccess 2.0 connectivity at all.</li> </ul>



EasyAccess 2.0 Network Overview

## Activation

While selected models come with built-in EasyAccess 2.0 license, most do not, and must be activated in order to use the feature. A purchased license can be used to activate any one of the supported models; however, once an HMI has been activated, its license cannot be transferred to another HMI.

## Understanding Domain, HMI Group, and User

The basic management block is Domain, under which HMIs, HMI Groups, and Domain Users exist. An HMI, upon activation, can be added to a domain.

**Domain and Domain Admin:** The basic block of HMI management. One Domain account may contain a number of Users, HMIs and HMI groups. However, each HMI can belong to only one Domain. The Domain Administrator manages all aspects the domain through the web-based portal at (<https://account.ihmi.net>). Note that domain account is *not* used for logging in the EasyAccess 2.0 client program.

**HMI Group:** A subset of HMIs within a domain. A user in an HMI Group can access all HMI in that group. For the Domain Admin, HMI Groups provide an easy way for management of user access to HMI. An HMI can belong to more than one HMI groups.

**User:** A user holds the account used to login in to the EasyAccess 2.0 program. They are allowed access to HMIs for which it has direct association, and also HMIs within the group it is associated with. User's relationship with HMIs and HMI Groups are managed by the Domain Admin.

The prime principle governing HMI management in EasyAccess 2.0:

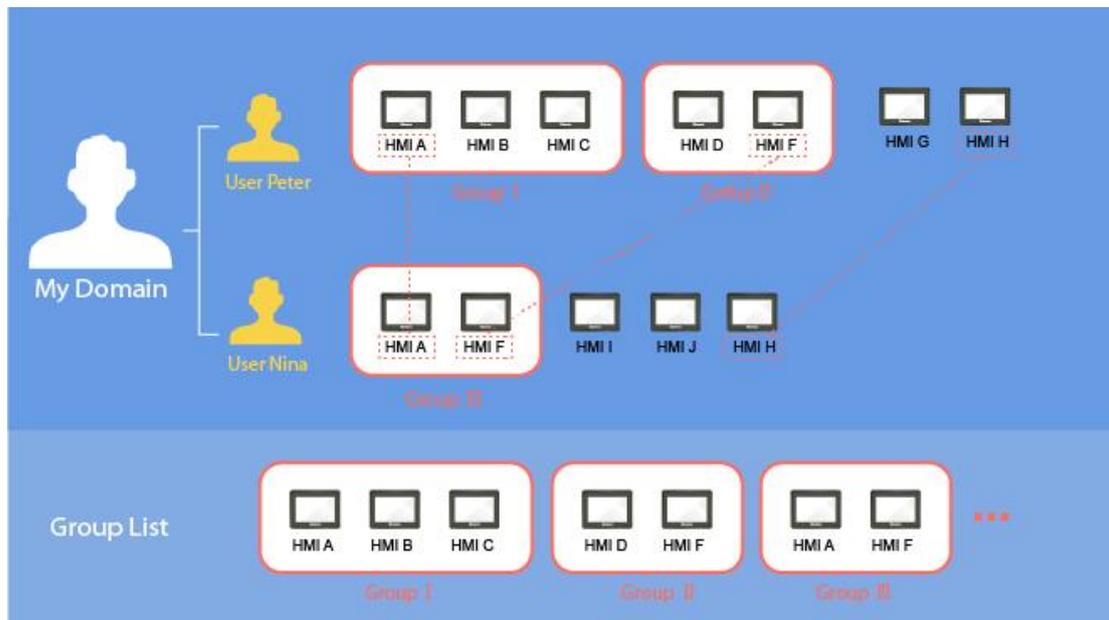
**An HMI can belong to one domain only at any given time**

### Example

Consider the following figure for an illustrative example of a domain.

- In this example, the domain, named “MyDomain” has two users, Peter and Nina.
- In this example, HMI are grouped together as Group I, Group II, Group III...etc, and one HMI belong to more than one groups. (HMI A)
- Users can belong to many groups, and have access to the HMI in the groups they belong to. (User Peter & Group I)
- Users can be directly associated with HMI and have access to them. (User Nina & HMI J)
- Multiple users can access the same HMI, whether by assignment to groups (HMI A) or by direct association (HMI H).

All of this is done by the Domain Admin. The Domain Admin can exercise large amount of freedom in domain management.



A sample domain “MyDomain”

## Setup Checklist



Please review the following checklist to start using EasyAccess 2.0. See relevant sections describing the functions in detail.

Check	Relevant Section
✓ <b>The HMI must be activated.</b>	<a href="#">(5. Activate an HMI)</a> <a href="#">(16. PC Activator)</a>
✓ <b>The HMI must be registered in a Domain.</b>	<a href="#">(6. Add an HMI to a Domain)</a> <a href="#">(7. Manage the Domain)</a> <a href="#">(16. PC Activator)</a>
✓ <b>The HMI must be programmed to go online.</b>	<a href="#">(8. Connect the HMI to EasyAccess 2.0)</a>
✓ <b>The user must have a user account which is associated with an HMI.</b>	<a href="#">(7. Manage the Domain)</a>
✓ <b>EasyAccess 2.0 must be installed.</b>	<a href="#">(9. EasyAccess 2.0 PC client Program)</a>

Having all set up, the user may then initiate remote connection to the HMI!

[\(10.\)](#)

[Connect to the HMI by EasyAccess 2.0](#)

[\(14. EasyAccess 2.0 on Android\)](#)

[\(錯誤! 找不到參照來源。 錯誤! 找不到參照來源。\)](#)

## 5. Activate an HMI

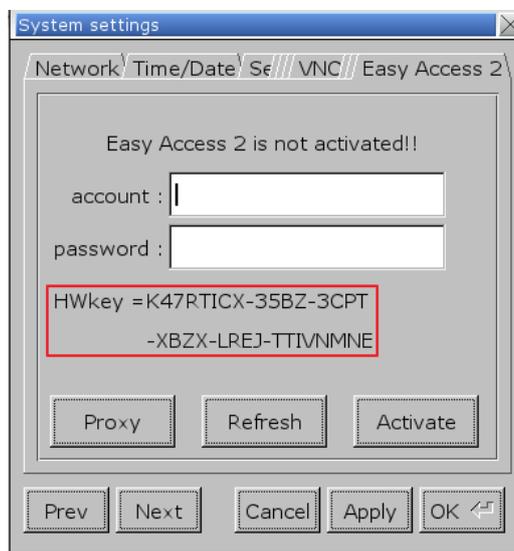
The HMI must have been activated in order to be connected using EasyAccess 2.0. Check its activation status on HMI in the [EasyAccess 2] tab of the [System settings] page. Activation is permanent, so please make sure that activation is applied to the intended HMI.

Selected models have EasyAccess 2.0 activated by default. If your HMI has not been activated, it can be activated by one of the following means:

- Self-serve activation with activation codes on Domain web page
- Self-serve activation with activation codes on PC Activator
- Activation by Weintek's authorized dealer

Alternatively, new user could test out EasyAccess 2.0 by getting trial activation.

In either case, HMI's Hardware key will be required. Locate it in the [EasyAccess 2] tab of system setting or system register **LW-11210**.



*Activation status and Hardware key*

## With an Activation Card on the Web

If you have an activation card, you may activate the HMI with the Activation codes printed on the card through the domain management system.



### Activation Card

1. Visit the domain management system and login to your Domain with your credential. Create a new domain if you do not have one yet.

For the Global server, the URL is <https://account.ihmi.net>

For the China server, the URL is <http://www.easyaccess.cn>

2. In [Devices] tab » [Add HMI], choose the Action type [Using activation card], and then enter the Hardware key and your Activation code.

*Note: Activation by activation card will also add the HMI to the domain, in which case, steps described in [Chapter 6. Add an HMI to a Domain](#) can be skipped.*

+ Add HMI Weintek\_FAE

Action type

Hardware key\*

Activation code\*  
 -  -  -

Custom Field1

Custom Field2

Custom Field3

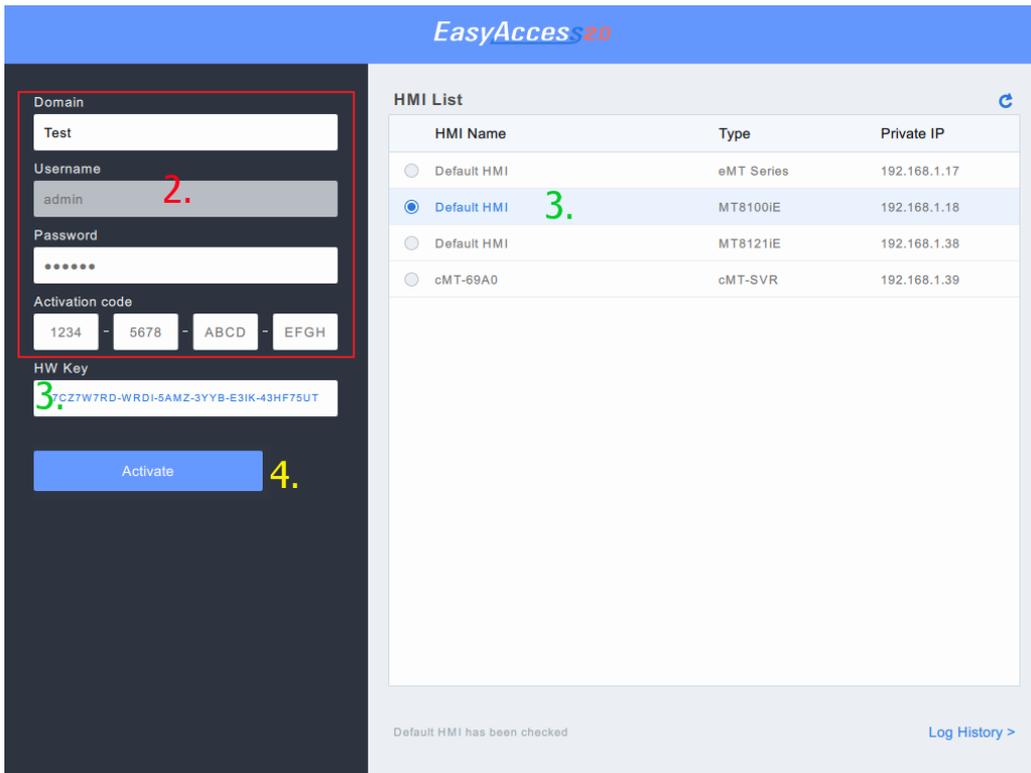
*Activation by activation code*

### With an Activation Card on PC Activator

Alternatively, use the helper application “PC Activator” to facilitate activation process.

1. Run PC Activator.
2. Enter Domain Admin’s credential and Activation code.
3. From the HMI list, select the one to be activated. The HW key will be loaded to the display field.
4. Depending on the HMI’s current activation status, the button below will show “Activate” or “Already activated.”
5. Click on the “Activate” button to complete activation.

*Note: Support for PC activator varies among different model and OS versions. Please review [Ch 16. PC Activator](#) for information on PC Activator*



Domain: Test

Username: admin

Password: .....

Activation code: 1234 - 5678 - ABCD - EFGH

HW Key: 3CZ7W7RD-WRDI-5AMZ-3YYB-E3IK-43HF75UT

Activate

HMI Name	Type	Private IP
<input type="radio"/> Default HMI	eMT Series	192.168.1.17
<input checked="" type="radio"/> Default HMI	MT8100IE	192.168.1.18
<input type="radio"/> Default HMI	MT8121IE	192.168.1.38
<input type="radio"/> cMT-69A0	cMT-SVR	192.168.1.39

Default HMI has been checked

[Log History >](#)

### PC Activator

#### By Hardware key through dealer

Please provide the Hardware key to your dealer for assistance.

#### Trial Activation

A one-time, 30 days free trial activation option is available for each HMI.

1. Visit the domain management system and login to your Domain with your credential.  
If using the Global server, the URL is <https://account.ihmi.net>  
If using the China server, the URL is <http://www.easyaccess.cn>
2. In [Devices] tab » [Add HMI], choose the Action type [30 days free trial], and then enter the Hardware key.

*Note: The HMI will be permanently bound to the domain in which the 30 days free trial is activated. It must be activated with an activation code before it can be deleted and transferred to another domain.*

## 6. Add an HMI to a Domain

An HMI must belong to a domain to use EasyAccess 2.0.

*When an HMI is activated by activation card, it is automatically added to that domain in which it is activated.* However, when an activated HMI does not currently belong to any domain, once it goes online, it will obtain a set of Session ID/Password, which can be used to add the HMI to a domain.

EasyAccess 2.0 service requires that each HMI belong to only one domain. Therefore, once an HMI is added to one domain, it cannot be added to another one. Another Domain Admin will not be able to add that HMI even with the same Session ID/Password. For an HMI to be transferred to another domain, it needs to be removed from its current domain, and then it can be added to another domain with its new Session ID/Password.

### By Session ID/Password

#### How to find Session ID/Password?

Session ID/Password are generated uniquely for the HMI by the EasyAccess 2.0 service, the HMI must go online in order to receive this piece of information.

1. First, create and download an EasyBuilder program that displays Session ID/Password (system registers [LW-10821] to [LW-10827]), and allows setting LW-10820, the connection control register.

**The above setup has been made available in a demo project and the template files (Page 76).**

2. Let HMI go online by setting [LW-10820] to ON.
3. Once successfully connected, HMI will display the Session ID/Password.

Review [Chapter 8: Connect the HMI to EasyAccess 2.0 Server](#) for more information.

## EasyAccess 2.0

Bypasses firewall restriction and allows you to remotely control any PLCs via the Internet



State : **Online**

Error code : **Success**

Clear

Session ID : **879628085**

(-1: Error, 0: Already added in a domain, other: Ready to join)

Password : **4231**

[Demo Project](#) showing Session ID/Password

*Note: Using EasyWatch, it is also possible to find out the Session ID/Password without actually downloading a project. EasyWatch allows users to monitor the HMI or the PLC address values via Ethernet from the PC. For its usage, check out related sections in the EasyBuilder Pro User Manual.*

### [Add to domain by Session ID/Password](#)

In domain page, under the “Devices” tab, click “Add HMI”, and then enter the Session ID/ Password and notes if needed.

+ Add HMI Weintek\_FAE

Action type Activate by session id/password ▾

Session ID \*

Password \*

Custom Field1

Custom Field2

Custom Field3

*Add to Domain by Session ID/Password*

### In PC Activator

PC Activator also facilitates the “Add to Domain” process, without needing access to the Session ID/Password. Refer to [16. PC Activator](#) on how to complete this process in PC Activator.

## 7. Manage the Domain

To access the domain management system,

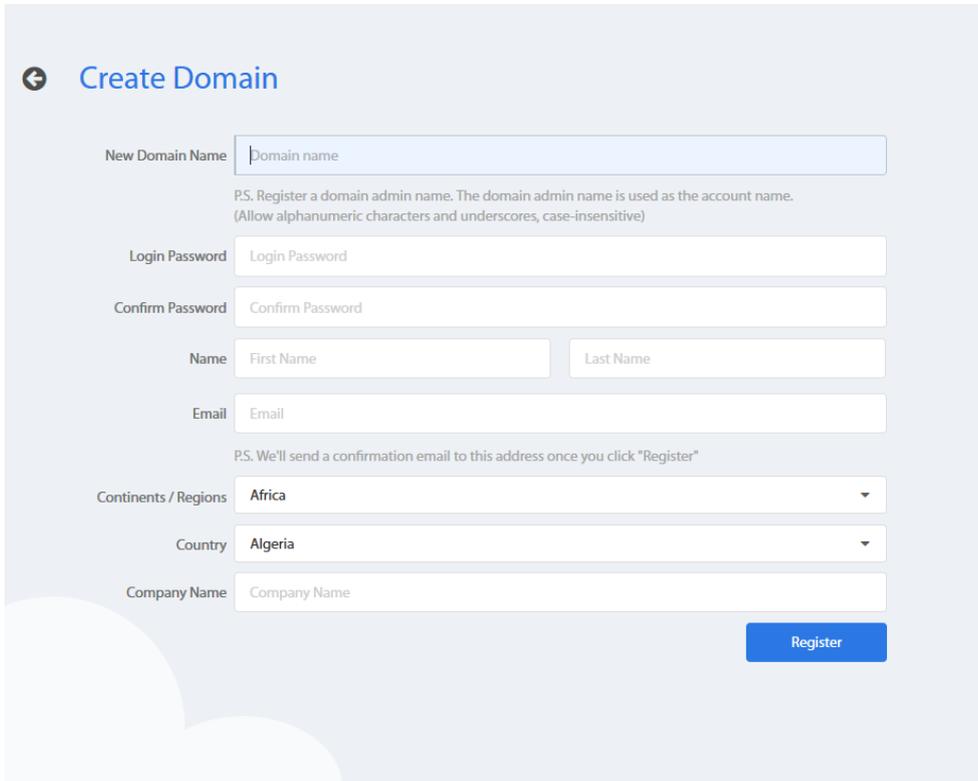
For access of Global server: <https://account.ihmi.net>

For access of China server: <http://www.easyaccess.cn>

Note: your project setting may affect which domain to use. Please be mindful about the choice of server.

### Domain Creation

Anyone can create a new domain for free. A valid e-mail address is required.



The screenshot shows a web form titled "Create Domain" with a back arrow icon. The form contains the following fields and instructions:

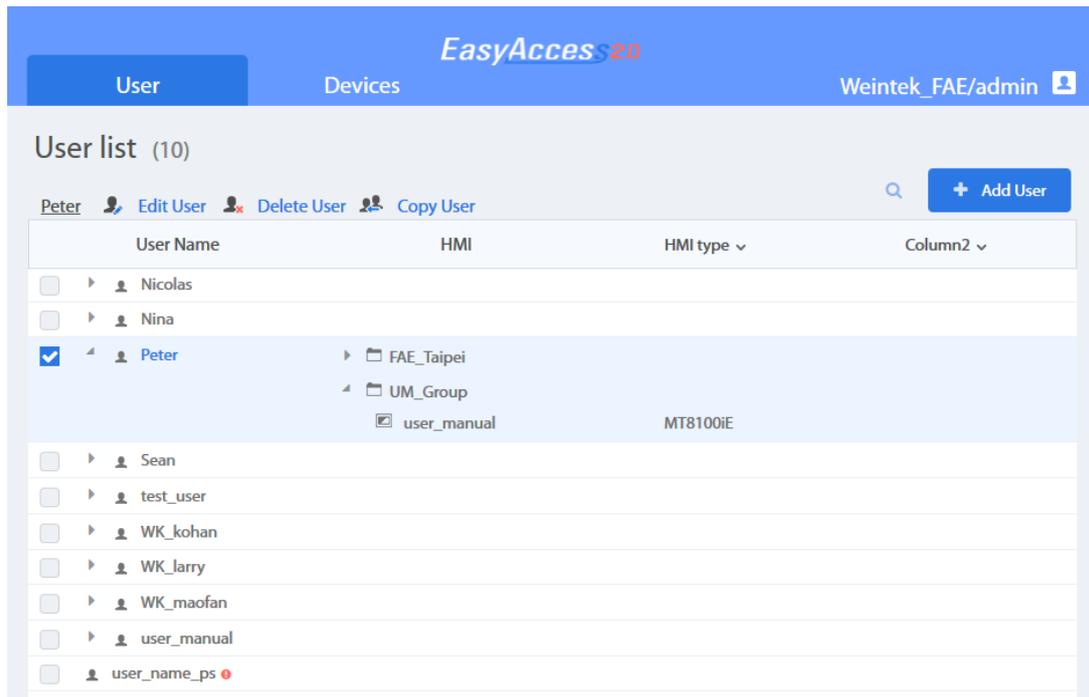
- New Domain Name:** A text input field with the placeholder "Domain name". Below it, a note reads: "P.S. Register a domain admin name. The domain admin name is used as the account name. (Allow alphanumeric characters and underscores, case-insensitive)".
- Login Password:** A text input field with the placeholder "Login Password".
- Confirm Password:** A text input field with the placeholder "Confirm Password".
- Name:** Two text input fields labeled "First Name" and "Last Name".
- Email:** A text input field with the placeholder "Email". Below it, a note reads: "P.S. We'll send a confirmation email to this address once you click 'Register'".
- Continents / Regions:** A dropdown menu with "Africa" selected.
- Country:** A dropdown menu with "Algeria" selected.
- Company Name:** A text input field with the placeholder "Company Name".

A blue "Register" button is located at the bottom right of the form.

### *Create a Domain*

### User Management

The User list displays all users and their information in the Domain. It shows whether a user is associated with any HMI and if the user belongs to any HMI group. In this page, the Admin can carry out user management actions: Add User, Edit User, Delete User, or Copy User here. For domains with a large number of users, search tool is also available.



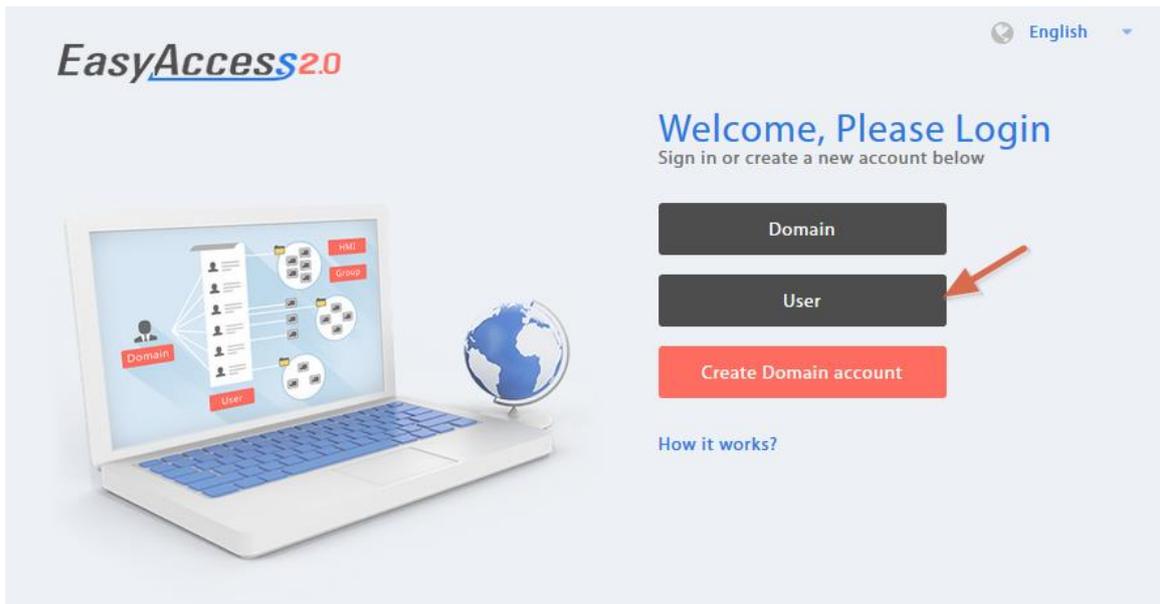
List of Users

Icon	Function
	<p>The Admin can create a new user ID in this window by providing an email address. Password information will be sent along with a confirmation email to the address provided. The new user must confirm registration by following the link in the mail to complete registration.</p> <p style="text-align: center;"><i>Add New User</i></p>
	<p>The Admin can edit the HMI and HMI Group association for the selected user.</p> <p><b>HMI/HMI Group » HMI</b></p>

Icon	Function
	<p>Edit the selceted user’s association with HMIs.</p> <p><b>HMI/HMI Group » Group</b></p> <p>Add/Remove the selected user to/from HMI Groups.</p> <div data-bbox="630 443 1262 1048" style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> </div> <p style="text-align: center;"><i>Adding a user to HMI groups</i></p> <p><b>Account Setting</b></p> <p>View infomration about this user account, and edit description and email information.</p>
	<p><b>Delete User</b> Delete the selected user from this domain.</p>
	<p><b>Copy User</b> Create a user with the same HMI/HMI Group association.</p>
<input type="text" value="Search..."/>	<p>Search for a user by name</p>
user_name_ps	<p>A user whose name has a  mark alongside indicates that the user is not assigned to any HMI.</p>

### Change User Password

When the user account is first created, a default password is mailed to the registered email address. The password can be subsequently changed. To do so, visit the homepage of the domain management system and select User login. Follow the on screen guidance and change the password.



*User Login*

## Device Management

The HMI list shows all HMIs registered in the current domain, and the HMI Group list shows all groups currently existing in this domain. The first column can sort the HMI by name, while the other columns can be set to show the following information: Private IP, Public IP, Activation Date, or Custom Field.

HMI Name & Type	Private IP	Column2	Column3
<input checked="" type="checkbox"/> Demo-2 Type: eMT3070A	192.168.1.88		
<input checked="" type="checkbox"/> Default HMI Type: eMT3070A	192.168.1.33		
<input checked="" type="checkbox"/> Default HMI Type: MT8100E	192.168.1.68		
<input checked="" type="checkbox"/> nicolas Type: eMT3070A	192.168.1.44		
<input checked="" type="checkbox"/> Default HMI Type: MT8050E	192.168.5.23		
<input checked="" type="checkbox"/> Default HMI Type: eMT3070	192.168.1.144		
<input checked="" type="checkbox"/> cMT-6559 Type: cMT-SVR	192.168.1.161		
<input checked="" type="checkbox"/> Default HMI Type: eMT3070B	192.168.1.45		
<input checked="" type="checkbox"/> cMT-4B20 Type: cMT-SVR	192.168.1.52		
<input checked="" type="checkbox"/> user_manual Type: MT8100E	192.168.1.238		
<input checked="" type="checkbox"/> MT8100E_Larry Type: MT8100E	192.168.1.36		

*HMI List*

HMI Icon	Function
	<p>Add a new HMI to the domain.</p> <p><b>Action type » Using activation card</b></p> <p>Activate the HMI and add it to the current domain. Hardware key and activation code are required.</p> <p><b>Action type » activate by session id/password</b></p> <p>Add the HMI to the current domain by Session ID/Password. Session ID/Password is required.</p> <p><b>Action type » 30 days free trial</b></p> <p>Activate a 30-day free trial for an HMI. The HMI will be permanently bound to the domain in which the 30 days free trial is activated. Only after the HMI has been activated with an activation code will it be allowed to be deleted from the current domain and added to another one.</p>
	<p>Edit the selected HMI</p> <p><b>User/HMI Group tab » User</b></p> <p>Edit user association with the selected HMI.</p> <p><b>User/HMI Group tab » HMI Group</b></p> <p>Add/Remove the selected HMI from the HMI groups.</p> <p><b>Activation Information</b></p> <p>View Hardware key and other information about this HMI.</p>
	<p>Delete the selected HMI from this domain. Once deleted, the HMI can be added to another domain with a new session id/password.</p>
	<p>Search for HMI by name. Enabling filter function will show only assigned / unassigned or all HMI.</p>

HMI Group Icon	Function
	Create a new HMI group.
	Edit the selected HMI group <b>HMI/User tab » HMI</b> Add/Remove HMI from the selected group. <b>HMI/User tab » User</b> Edit user association with the selected group. <b>General Setting</b> View information about this HMI group.
	Delete the selected HMI group.

*Note: once an HMI is deleted from current domain, it can then be added to another domain. To add it back again, you will need a new set of session id/password.*

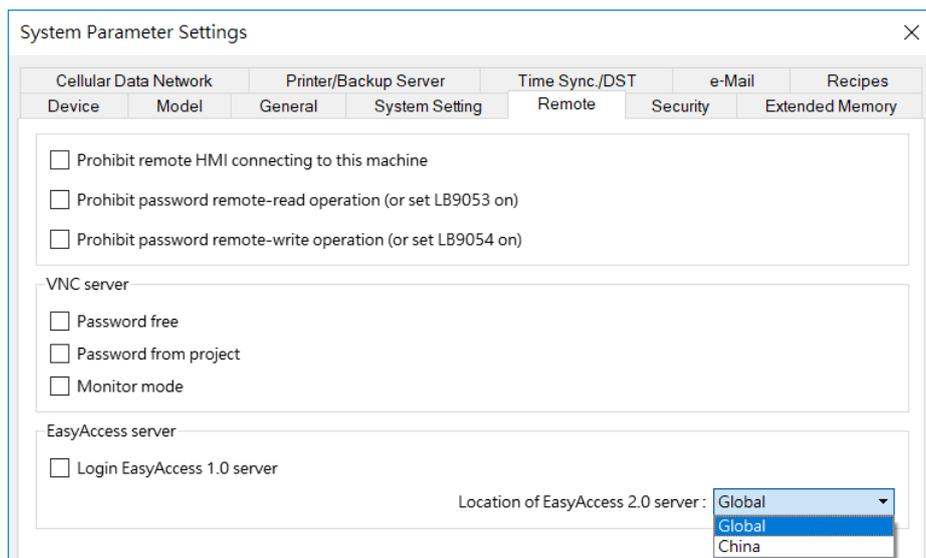
## 8. Connect the HMI to EasyAccess 2.0 Server

### Selection of Server

In EasyBuilder Pro project, select the location of EasyAccess 2.0 server to be used. This setting is found in [System Parameter Settings] » [Remote] tab. Options available are: *Global* and *China*. Alternatively, use system register LW-11296 to make the selection.

### Choosing the server

China and Global domains use different servers, so account and activation information in one will not match those in another. The activation codes obtained through the distributor channel in China are only valid for the China server. All others will be valid for the Global server. Please choose the server setting based on the server where the HMI was originally activated, China or Global.



### Selection of EasyAccess 2.0 Server

### Configure EasyBuilder Pro Project

With an activated HMI, go through the following steps to connect to the EasyAccess 2.0. Ensure that this is done, implicitly or explicitly, in the project in order to use EasyAccess 2.0.

1. Configure the EasyBuilder Pro project. In the EasyBuilder project, the user should be able to write to LW-10820.
2. Write "1" to LW-10820 to go online. HMI's EasyAccess 2.0 status should be "Online". Session id/password will be displayed accordingly, depending on

whether the HMI has been added to a domain.

## 9. EasyAccess 2.0 PC client Program

EasyAccess 2.0 is provided as a standalone program that can be installed on the PC. It can be used independent of the EasyBuilder software suite.

Download the software from Weintek's website at:

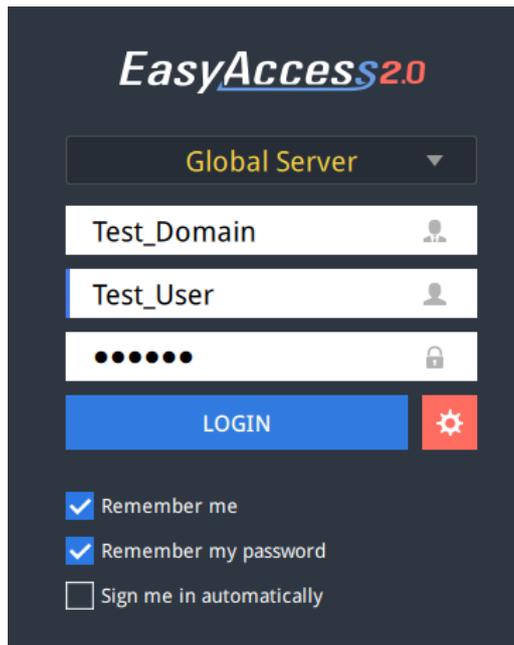
<http://www.weintek.com/globalw/Software/EasyAccess.aspx>

### Installing adaptors

During the first program run, the software will detect whether necessary adaptors are present. If not, they will be installed automatically.

### Log in

Domain name, Domain username and password are required for login.



*Login to EasyAccess 2.0*

### Main screen

Once successfully logged in, the main screen will show all HMIs for the user and their online statuses. HMIs that are online will have a connect button and a setting button. There is no limit on the number of HMIs that can be simultaneously connected from the program. However, once an HMI is connected by a user, it goes into "occupied" state and cannot be connected by another user before the existing connection has been terminated.

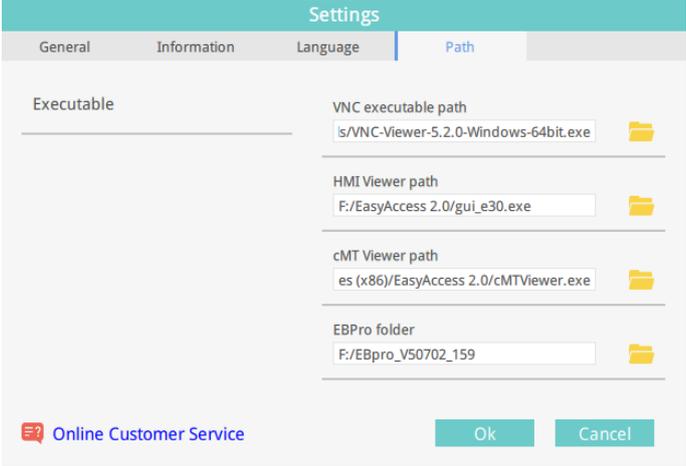


EasyAccess 2.0 Main Screen

Functions of icons on Main screen:

Icon	Function
	Domain Traffic Usage(Top-up Card)
	HMI search filter
	Tile view/ List view
	Event Logs
	Settings
	Logout of current user
	Displays connection logs.

## Settings

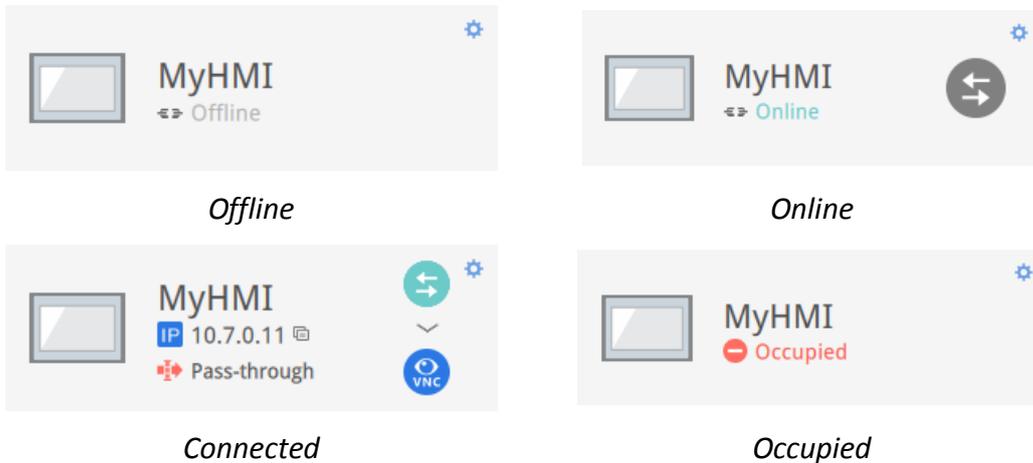
Tab	Description
General » Network traffic	Options: <b>Show all HMI Network traffic</b> <b>Disable Weintek P2P</b> <b>Enable sending log for debug</b>
Information	Software version and the terms of usage
Language	Select the language Languages available: English, French, Italian, Spanish, Russian, Simplified Chinese, Traditional Chinese, Korean, German, Japanese, Polish
Path » Executable	Select executable (*.exe) path for VNC viewer, HMI Viewer, and cMT Viewer, used to launch the viewers when connections are established. 
	<p><b>VNC executable path</b> Location of the .exe executable of the VNC viewer. VNC viewer must be installed separately.</p> <p><b>HMI Viewer path</b> Location of the GUI (gui_e30.exe), for use with iE/XE/eMT/mTV series.</p> <p><b>cMT Viewer path</b> Location of the cMT Viewer, for use with cMT series.</p> <p><b>EBPro folder</b> Location of the EasyBuilder Pro folder, where libraries necessary for PC→HMI transfer are located.</p>

*Note: Please try to keep GUI updated as it is the necessary executable for running the*

*HMI Viewer. A copy of GUI and cMT Viewer which was most current as of the date of EasyAccess 2.0 release is included in the installation. An update of GUI may be required when programming environment of the HMI was updated; in this case, find it in the latest version of EasyBuilder Pro.*

### HMI States and Access Setting

HMI can be in one of the states: Offline, Online, Connected, Occupied.



The usage or meaning of each icon:

Icon	Function
	HMI name
	Virtual IP address. Click to copy the IP address to clipboard.
	Set up pass-through IP address
	Connect to the HMI
	Disconnect from the HMI
	Access the HMI with VNC viewer (installed separately).
	Access the HMI with HMI Viewer
	<b>Events</b> When push notification is enabled, the notification of triggered events will be shown here.

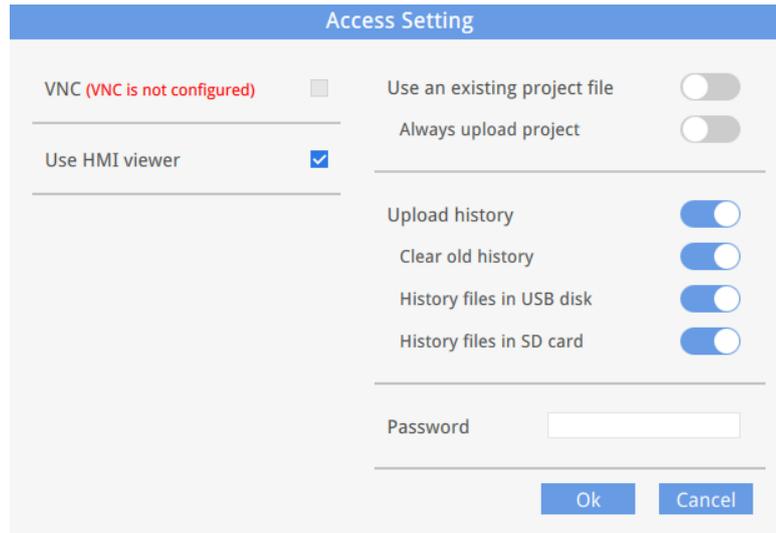
### Access Setting

Access setting of the HMI, which allows using VNC Viewer or HMI Viewer.

To use VNC Viewer, set executable path in Settings page.

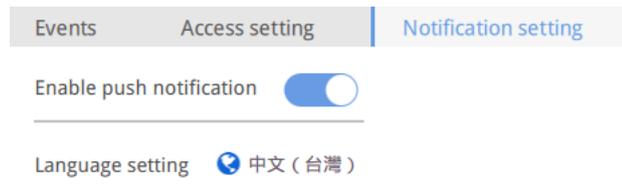
To use HMI Viewer, set executable path in Settings page.

Also, set how project upload and history should be handled.



HMI Viewer setting (only when enabled)

### Notification setting



Enable push notification. When an event is triggered on HMI, EasyAccess 2.0 can send push notification about the event.

The language used by push notification can be selected in [Language & Font], and Label Tag Library in EasyBuilder Pro can be used to configure multiple languages.

### Connection Log

Clicking on the LOG icon brings out the detail connection logs with the VPN, Authentication, and UAC server. The GUI tab shows information relevant to the use of HMI Viewer. In addition to viewing them here, it is also possible to save the logs as a file.

### Activity info

Save log

TYPE	TIME	CONTENT
	2015-03-25 16:35:30 550	user_manual Traffic Usage: 5024 KB
	2015-03-25 16:35:30 277	user_manual EasyAccess version: 2.2.0
	2015-03-25 16:35:30 225	user_manual change state to online
	2015-03-25 16:31:18 099	user_manual Traffic Usage: 26 KB
	2015-03-25 16:31:15 717	weintek-openvpn 54.65.172.205
	2015-03-25 16:31:15 651	weintek-p2p vpn host: 54.65.172.205
	2015-03-25 16:31:15 566	user_manual change state to in_use
	2015-03-25 16:31:14 527	user_manual EasyAccess version: 2.2.0
	2015-03-25 16:31:14 465	user_manual change state to online
	2015-03-25 16:31:01 313	user_manual change state to offline
	2015-03-25 16:27:07 838	user_manual EasyAccess version: 2.2.0
	2015-03-25 16:27:06 980	user_manual EasyAccess version: 2.2.0
	2015-03-25 16:27:06 980	user_manual Traffic Usage: 26 KB
	2015-03-25 16:27:06 944	user_manual change state to online
	2015-03-25 16:27:05 905	choose no. 0 vpn server: TAP vpn server
	2015-03-25 16:27:02 320	Login : Weintek FAE.Peter

### Connection Logs

### Usage Display

The HMI's total data usage to date for the current month will be displayed.

The image shows a UI card for 'user\_manual'. It includes a monitor icon, the text 'user\_manual', 'IP 10.7.0.6', and 'Pass-through'. On the right side, there are icons for refresh, settings, and a close button. At the bottom, a teal bar displays a pulse icon and '7.40MB'.

### Usage Display

## 10. Connect to the HMI by EasyAccess 2.0 on PC

Step-by-step for establishing EasyAccess 2.0 connection.

-  1. Launch EasyAccess 2.0.exe.
-  2. Enter Domain name, Domain user's username and password, and then click [Login].
-  3. Once logged in, the program will list user's HMIs and their statuses.
-  4. Click on connect button to establish connection to an online HMI. Once connected, the virtual IP address will be displayed. It is now possible to connect directly to the HMI by VNC, HMI Viewer, cMT Viewer or other net services.
-  5. When finished, click on disconnect button to terminate the connection.

### VNC Viewer

For models supporting VNC server, one may use VNC viewer to access the HMI. Please install a VNC Viewer of your choice, and provide its executable file (.exe) location to EasyAccess 2.0 application in [Settings] » [Path]. After you have successfully made the connection, should clicking on the VNC icon  yields no response, launch VNC viewer separately and use the virtual IP address obtained in EasyAccess 2.0 as the destination IP address.

### HMI Viewer

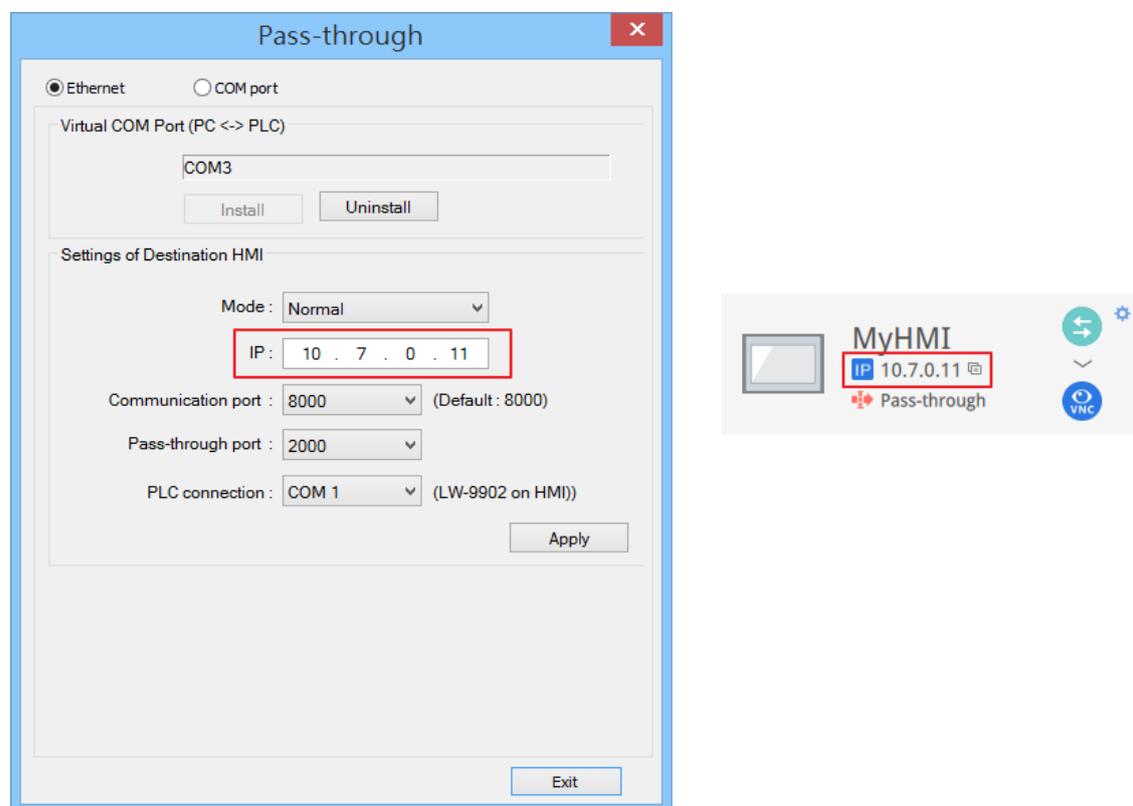
Non-cMT models support using HMI Viewer to access HMI. Provide a suitable gui\_e30.exe location to EasyAccess 2.0 application in [Settings] » [Path]. gui\_e30.exe is contained within EasyAccess 2.0 and EasyBuilder Pro installation folder, where the latter always contains the most up-to-date version.

### cMT Viewer

cMT models support using cMT Viewer to access HMI. cMT Viewer is contained within EasyAccess 2.0 and EasyBuilder Pro installation folder, where the latter always contains the most up-to-date version.

## 11. Pass-through with EasyAccess 2.0

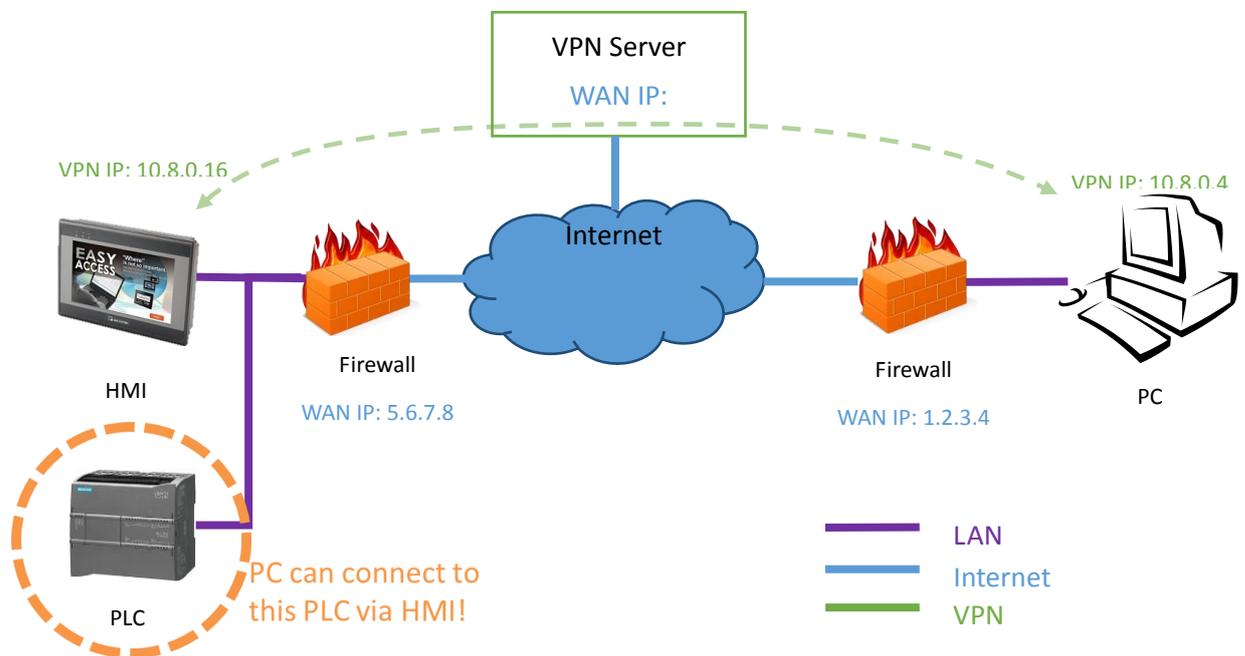
Remote Pass-through is made possible and simple with EasyAccess 2.0. Similar to the traditional way of local pass-through, it is done with a helper program in Utility Manager. Simply enter the virtual IP address obtained in EasyAccess 2.0 in the pass-through program, as shown in the following figure. The remaining steps are the same as local pass-through. In doing remote pass-through, additional port settings are not required.



*Pass-through setting in Utility Manager*

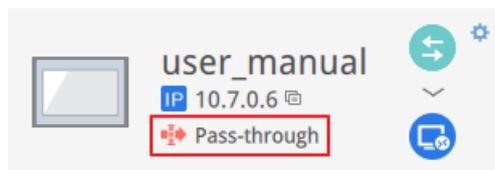
## 12. Pass-through Connect to a remote PLC on the HMI's network (Ethernet pass-through)

EasyAccess 2.0 not only makes possible direct connection to a Weintek HMI, but also provides pass-through function that enables the user to connect to the PLC on the remote HMI's network. Consider an EasyAccess network as shown below where a PLC is within the same LAN network as the HMI. Here, the PC, by first establishing EasyAccess 2.0 connection to the HMI, may use the HMI as the relay and connect to the PLC as well.



### How to setup pass-through to PLC?

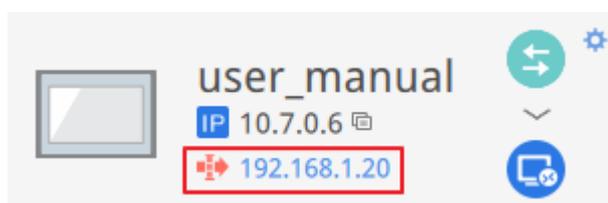
1. On the list of HMI, click on the “Pass-through” icon which appears below the IP address when connection is active.



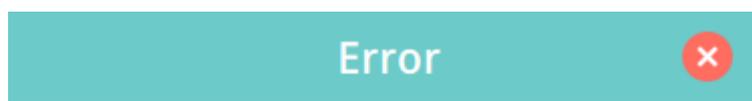
2. Enter the IP address of the target PLC.



3. Once connected, the IP address of the PLC will be shown. The user may now launch the PLC program.



If the remote PLC and the local computer have the same private IP address range, a warning will appear, indicating that subsequent connection to the PLC's IP address will be directed to the remote device instead of the local device if there is any.

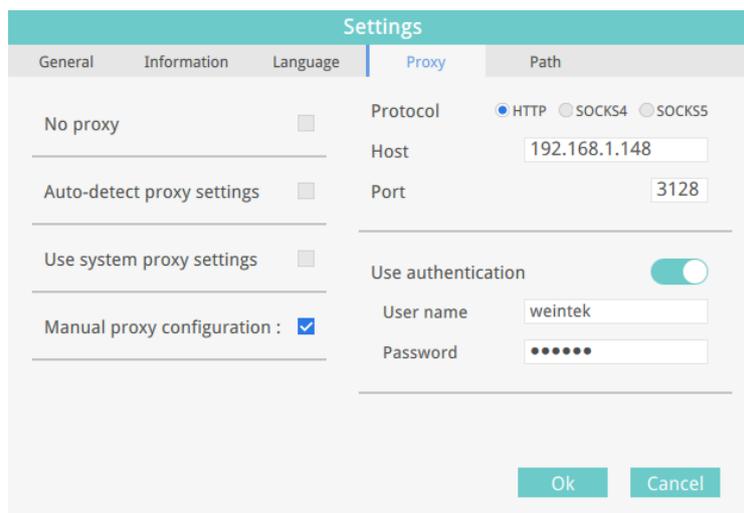
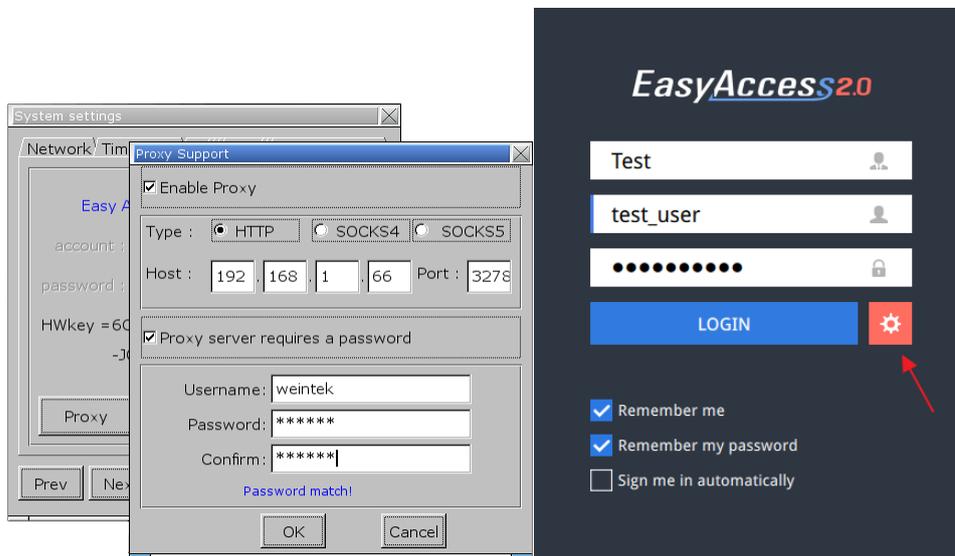


This will override connection to 192.168.1.20 to remote device. You see this message because the IP address (192.168.1.20) is in your local network (192.168.1.0/255.255.255.0).

### 13. Proxy Server

A proxy server acts as an intermediary between clients and servers. In some network infrastructure, especially that of a large scale, proxy servers are used to ensure security, administrative control, and efficiency of the network. To establish connection with EasyAccess 2.0 through proxy, however, requires additional settings in EasyAccess 2.0 client program and/or the HMI.

Proxy settings at PC's EasyAccess 2.0 client side and HMI side are similar. On PC, proxy setting window can be called from the setting button of the login screen. On HMI it is found in the [EasyAccess 2 tab] of system settings. Enter the proxy type, host address, port number and login credentials obtained from the network administrator.



*Proxy Settings*

## Proxy related system tags

The following table lists the system tags reserved for EasyAccess 2.0 proxy settings:

<b>LW-11170</b> (16bit)	Proxy Disable/Enable (0: disable, 1: enable)
<b>LW-11171</b> (16bit)	Proxy Type (0: HTTP, 1: SOCKSv4, 2: SOCKSv5)
<b>LW-11172</b> (16bit)	Proxy Server IP0
<b>LW-11173</b> (16bit)	Proxy Server IP1
<b>LW-11174</b> (16bit)	Proxy Server IP2
<b>LW-11175</b> (16bit)	Proxy Server IP3
<b>LW-11176</b> (16bit)	Proxy Server Port
<b>LW-11177</b> (16bit)	Proxy authentication (0: disable, 1: enable)
<b>LW-11178</b> (16 words)	Proxy username
<b>LW-11194</b> (16 words)	Proxy password

## 14. EasyAccess 2.0 on Android

EasyAccess 2.0 is available for Android devices. With EasyAccess 2.0, users can easily use VNC or cMT Viewer to access remote HMI. Even though the UI and available functionalities on an Android device maybe slightly different from PC, the connection steps are as simple and straightforward.

EasyAccess 2.0 on Android requires Android version 4.1.2 or later.

### App Download

In addition to the main app EasyAccess 2.0, a helper OpenVPN Connector app is required. Please download the apps from Google Play and install the apps, both of which are free.

Icon	App Name	App Provider
	<b>EasyAccess 2.0</b>	<b>Weintek Labs., Inc,</b>
	<b>EasyAccess 2.0 OVPN Connector</b>	<b>Weintek Labs., Inc.</b>

### Step-by-step connection guide



1. Launch EasyAccess 2.0 app.

**LOGIN**

2. Enter Domain name, Domain user's username and password, and then click [Login].



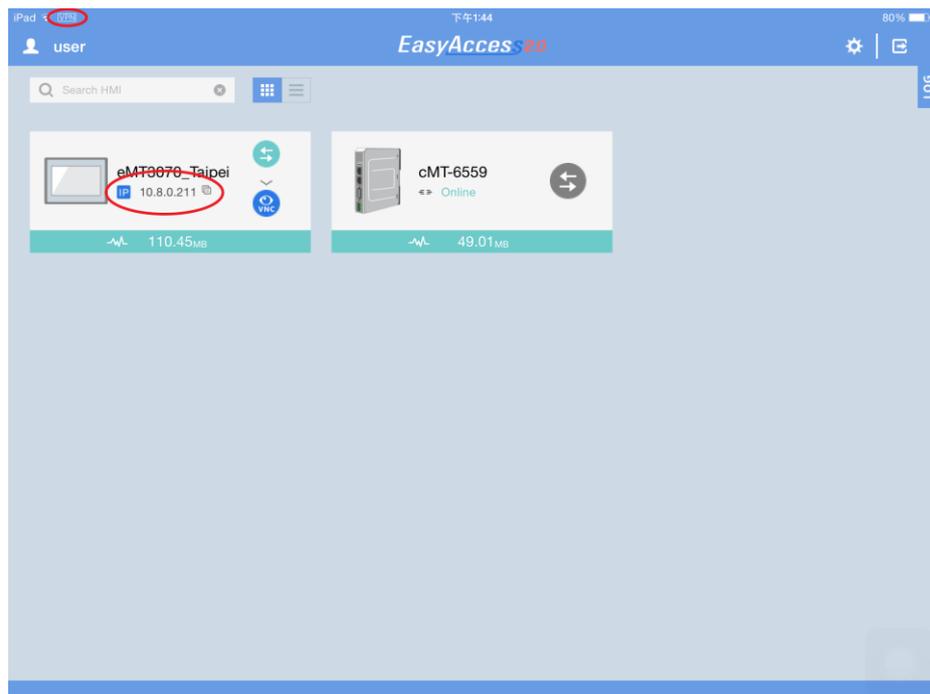
3. Once logged in, the app will list user's HMIs and their statuses.



4. Click on the connect button to establish connection to an online HMI."



5. Once connected, the virtual IP address will be displayed. The top status bar will also display a VPN icon. It is now possible to connect directly to the remote HMI by VNC or cMT Viewer.



6. When finished, return to EasyAccess 2.0 app and click on the disconnect button to terminate the connection.

### VNC Viewer

For models supporting VNC server, one may use VNC viewer to access the HMI. Please install a VNC Viewer of your choice, and set it as the default VNC viewer in EasyAccess 2.0 application. Use the virtual IP address obtained in EasyAccess 2.0 as the destination IP address. After you have successfully made the connection, should clicking on the VNC icon  yields no response, launch VNC viewer separately and use the virtual IP address obtained in EasyAccess 2.0 as the destination IP address.

### cMT Viewer

cMT models support using cMT Viewer to access HMI. cMT Viewer is available for free on Google Play.

## 15. EasyAccess 2.0 on iOS

EasyAccess 2.0 is available on iOS devices. With EasyAccess 2.0, users can easily use VNC or cMT Viewer to access remote HMI. However, due to software restrictions, connection steps are slightly different from those on PC or Android.

EasyAccess 2.0 on iOS requires iOS version 7.0 or later.

### Download from the app store

In addition to the main app EasyAccess 2.0, OpenVPN Connect app is required. Please download the apps from the App store and install the apps, both of which are free.

Icon	App Name	App Provider
	<b>EasyAccess 2.0</b>	<b>Weintek Labs., Inc.</b>
	<b>OpenVPN Connect</b>	<b>OpenVPN Technologies</b>

### Step-by-step connection guide



1. Launch EasyAccess 2.0 app



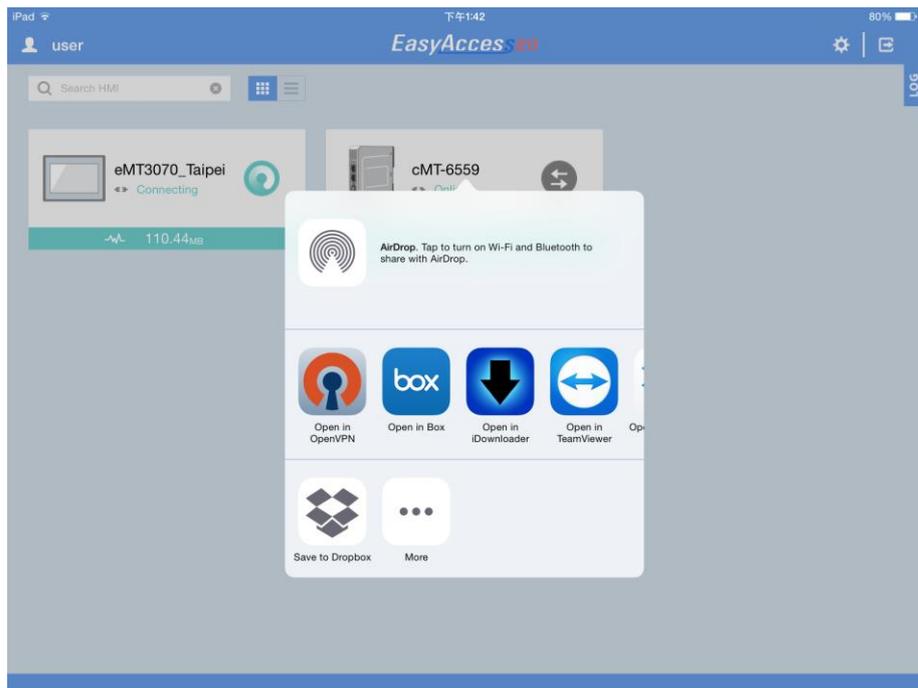
2. Enter Domain name, Domain user's username and password, and then click [Login].



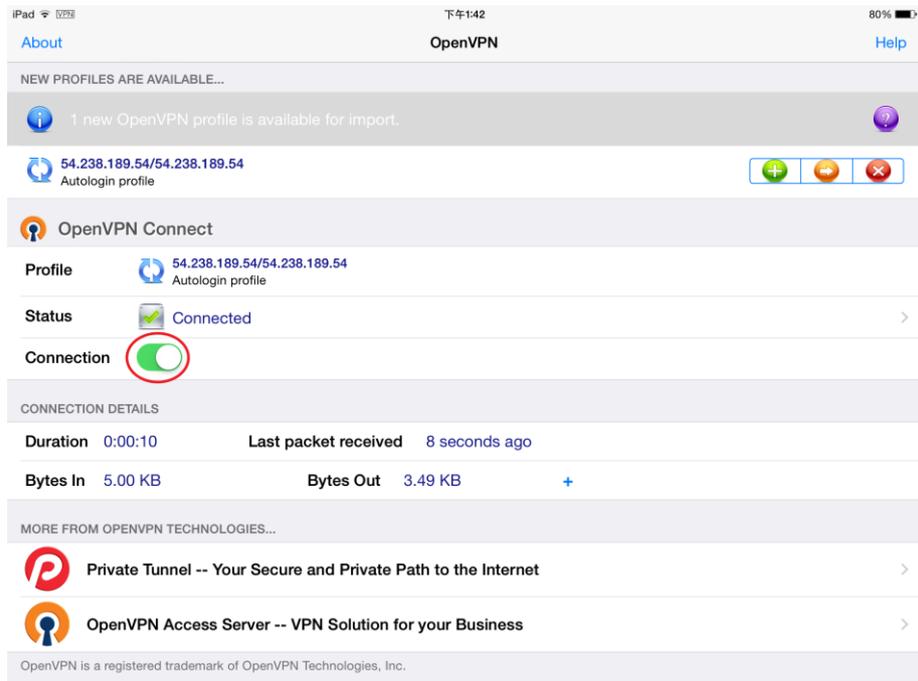
3. Once logged in, the program will list user's HMIs and their statuses.



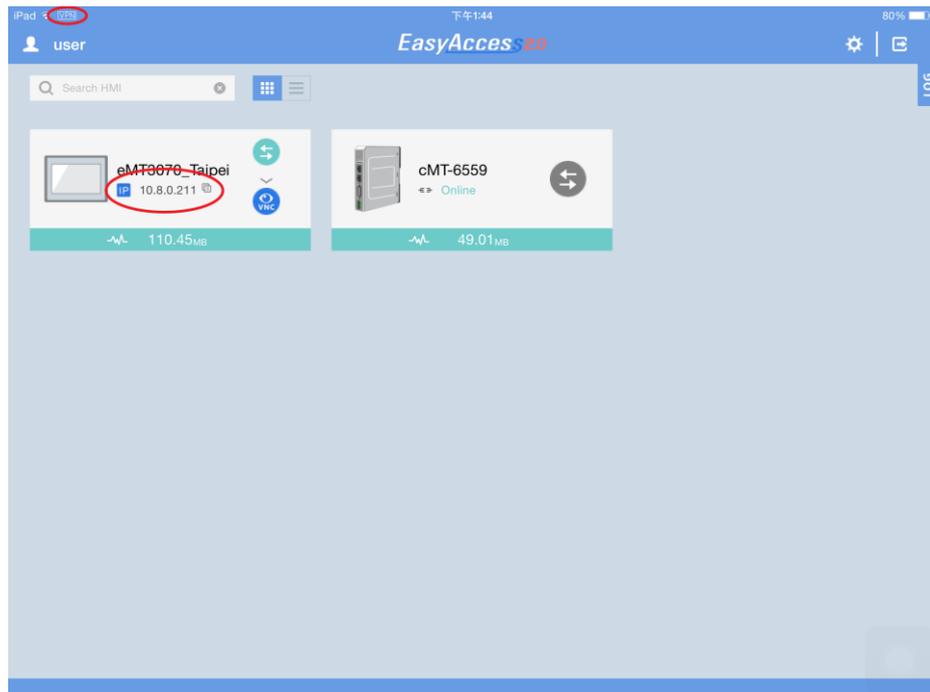
4. Click on connect button to establish connection to an online HMI. Dialogue will show with action buttons. Click "Open in OpenVPN."



5. In OpenVPN app, add the login profile, and toggle the connection button to initiate connection.



6. Once connected, return to EasyAccess 2.0 app and the virtual IP address will be displayed. The top status bar will also display a VPN icon. It is now possible to connect directly to the remote HMI by VNC or cMT Viewer.



7. When finished, click on disconnect button to terminate the connection.

### VNC Viewer

For models supporting VNC server, one may use VNC viewer to access the HMI. Please install a VNC Viewer of your choice, and set it as the default VNC viewer in EasyAccess 2.0 application. Use the virtual IP address obtained in EasyAccess 2.0 as the destination IP address. After you have successfully made the connection, should clicking on the VNC icon  yields no response, launch VNC viewer separately and use the virtual IP address obtained in EasyAccess 2.0 as the destination IP address.

### cMT Viewer

cMT models support using cMT Viewer to access HMI. cMT Viewer is available for free on the App Store.

## 16. PC Activator

The PC activator allows the user to quickly perform HMI activations, which would otherwise have to be done through the web interface. Instead of the often lengthy process of recording and typing hardware keys for activation, with PC Activator, the user now can quickly search for HMI's that are on the network, check their activation statuses, and activate them with the activation code. This is especially useful for bulk activation. In addition, PC Activator also lets users add HMI to a domain without having access to the session ID/ password.

Two main features are supported by the PC Activator

1. HMI activation by activation code
2. Adding an HMI to a domain

### Activation

#### LOGIN

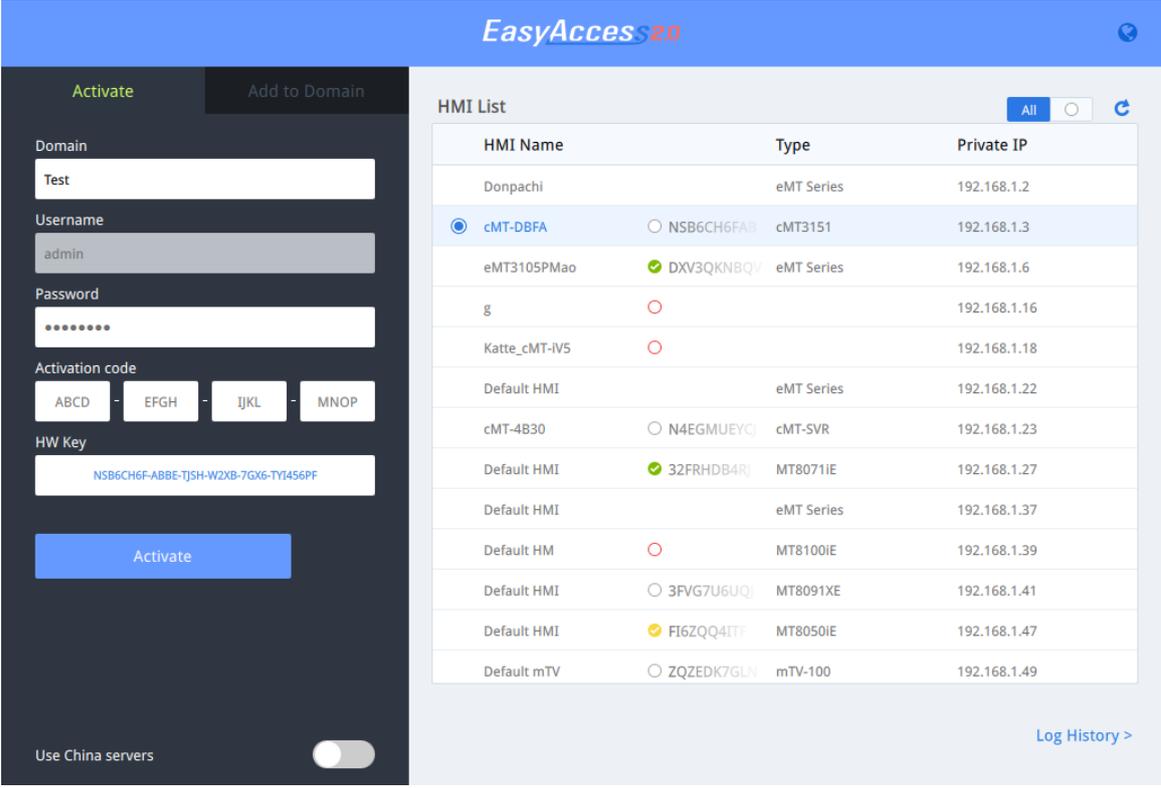
1. Enter Domain name, password, and activation code
- 2. Select an HMI from the HMI list. It is possible to activate ones with a  
○ icon. Its hardware key will be retrieved and shown.

List of icon:

- ✔: HMI is activated and assigned to a domain.
- ✔: HMI is activated but **not** assigned to a domain.
- : HMI is not activated. It can be activated in PC Activator
- : HMI's OS version does not support PC Activator. OS upgrade may solve this problem.
- no icon: HMI does not support PC Activator.

#### Activate

3. Click the Activate button.



The screenshot displays the EasyAccess 2.0 interface. On the left, there are two main sections: 'Activate' and 'Add to Domain'. The 'Activate' section includes input fields for Domain (Test), Username (admin), Password, and Activation code (ABCD, EFGH, IJKL, MNOP). Below these is a 'HW Key' field containing a long alphanumeric string. A blue 'Activate' button is at the bottom of this section. A toggle switch for 'Use China servers' is located at the bottom left. The 'Add to Domain' section is currently empty. On the right, the 'HMI List' table is visible, showing a list of HMI models and their private IP addresses. The table has columns for HMI Name, Type, and Private IP. The 'cMT-DBFA' model is selected, indicated by a blue circle icon. Other models include Donpachi, eMT3105PMao, g, Katte\_cMT-IV5, Default HMI, cMT-4B30, Default HMI, Default HMI, Default HM, Default HMI, Default HMI, and Default mTV.

HMI Name	Type	Private IP
Donpachi	eMT Series	192.168.1.2
<input checked="" type="radio"/> cMT-DBFA	<input type="radio"/> NSB6CH6FAB cMT3151	192.168.1.3
eMT3105PMao	<input checked="" type="radio"/> DXV3QKNBQV eMT Series	192.168.1.6
g	<input type="radio"/>	192.168.1.16
Katte_cMT-IV5	<input type="radio"/>	192.168.1.18
Default HMI	eMT Series	192.168.1.22
cMT-4B30	<input type="radio"/> N4EGMUEYQJ cMT-SVR	192.168.1.23
Default HMI	<input checked="" type="radio"/> 32FRHDB4R1 MT8071IE	192.168.1.27
Default HMI	eMT Series	192.168.1.37
Default HM	<input type="radio"/> MT8100IE	192.168.1.39
Default HMI	<input type="radio"/> 3FVG7U6UQJ MT8091XE	192.168.1.41
Default HMI	<input checked="" type="radio"/> FI6ZQQ4ITP MT8050IE	192.168.1.47
Default mTV	<input type="radio"/> ZQZEDK7GLV mTV-100	192.168.1.49

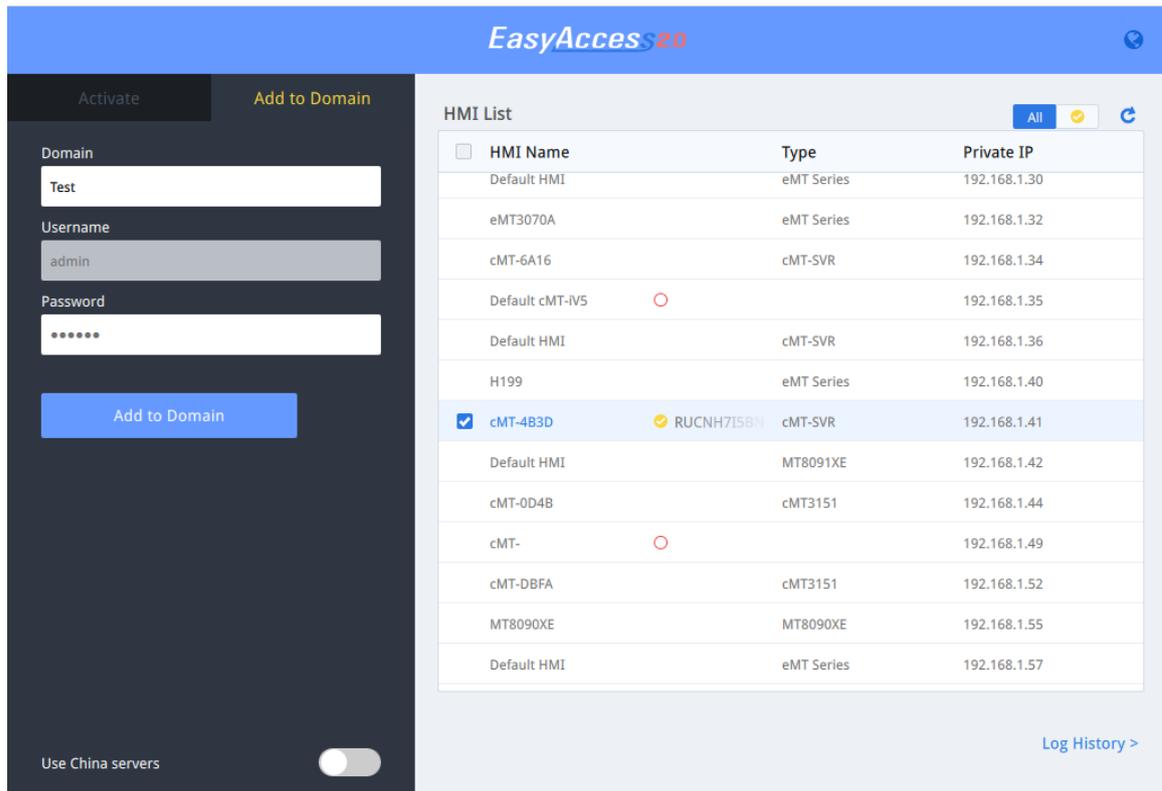
By toggling the option “Use China servers”, PC Activator will check the activation status and perform activation with China servers (<http://www.easyaccess.cn>). so account information registered on global servers cannot be used on China servers, and vice versa.

### Add to Domain

PC Activator also allows the user to Add an HMI to Domain directly without explicitly having gained access to the Session ID/Password. Simply enter the Domain name and admin password, and then select an HMI that can be added.

HMI with an icon of , indicating that it has been activated but **not** assigned to a domain yet, can be selected and added to the Domain.

By toggling the option “Use China servers”, PC Activator will check the activation status and perform activation with China servers (<http://www.easyaccess.cn>). Global and China servers are independent entities, so account information registered on global servers cannot be used on China servers, and vice versa.



## OS Support

HMI and OS that supports **PC Activator** (current as of May 2018)

Model	OS version or later
eMT3070A	TBA
eMT3070B	20150603
eMT3105, eMT3120, eMT3150	TBA
MT8070iE, MT8100iE	20150508
MT8050iE, MT8071iE, MT8101iE	20150527
MT8090XE, MT8091XE, MT8092XE	20150603
MT8121XE, MT8150XE	20150603
mTV-100	20150508
cMT-SVR	20151127
MT8073iE, MT8102iE, MT8103iE	All versions
All cMT models except cMT-SVR	All versions

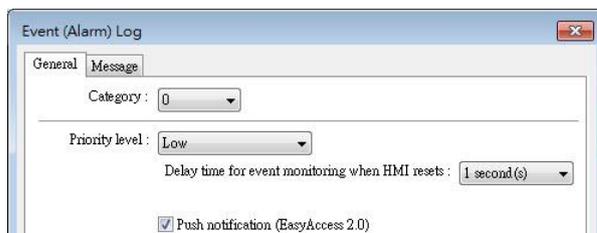
## 17. Push Notification

With push notification, HMI sends selected event messages to EasyAccess 2.0 server, which may be viewed in the EasyAccess 2.0 application. In the case of a mobile device, the device will receive the event messages as push notification and be alerted on the standby screen.

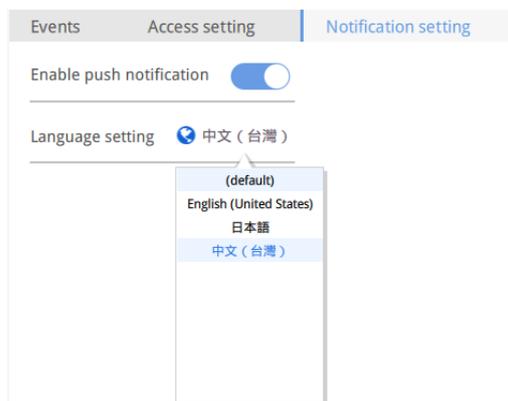
### Requirements

Using push notification requires configurations in both EasyBuilder Pro project and EasyAccess 2.0 application as follows:

1. In the project, for each of the desired event log entry, check the “Push Notification (EasyAccess 2.0)” option.



2. In EasyAccess 2.0 application, toggle ON the push notification option for each desired HMI.



### Receiving notification

As long as EasyAccess 2.0 remains running at least in the background and the user remains logged in, when an event occurs, the device will receive push notification. Nonetheless, the exact device behavior upon receiving push notification depends on each device’s setting regarding push notification.

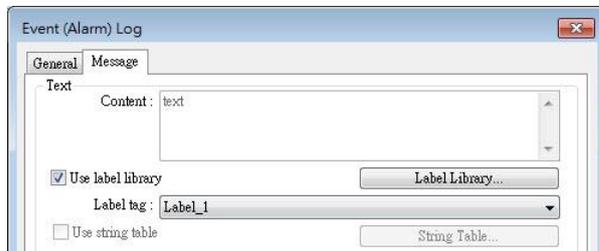
For Apple’s iOS device, push notification goes through Apple Push Notification

Service, whereas Android devices' goes through Google Cloud Messaging. Note that these services may be unavailable in certain regions, and users in those regions are unable to receive push notification on their devices.

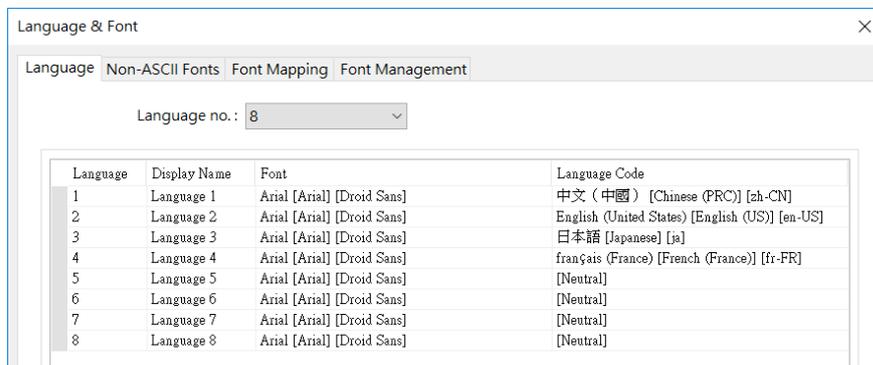
## Language Selection

If the project includes multiple languages and its event log content also does, it is possible to switch the language contained in push notification messages. To do so, all the requirements are the same as regular push notification, plus the following:

1. In EasyBuilder Pro, for the content of event messages, use label tag with multiple language definition from the label library.



2. In EasyBuilder Pro, in [Language & Font], under [Language] tab, assign an appropriate language code to each language.



Having configured as above, the languages defined above can be selected In EasyAccess 2.0 under each HMI's Notification setting. Event messages and push notification message will change to the selected language accordingly.

Events   Access setting   Notification setting

Enable push notification

Language setting 中文 (台湾)

(default)

English (United States)

日本語

中文 (台湾)

Events	Access setting	Notification setting
TIME	CONTENT	
2017-08-18 16:10:08	你好	
2017-08-18 16:10:03	你好	
2017-08-18 16:09:35	你好	
2017-08-18 16:09:31	你好	
2017-08-18 16:09:30	你好	
2017-08-18 16:09:25	你好	
2017-08-18 16:08:58	你好	
2017-08-18 16:08:57	你好	

### Language Selection

## Wechat

For Wechat users, it is also possible to receive push notification in Wechat app.

The following are the requirements for using Wechat push notification:

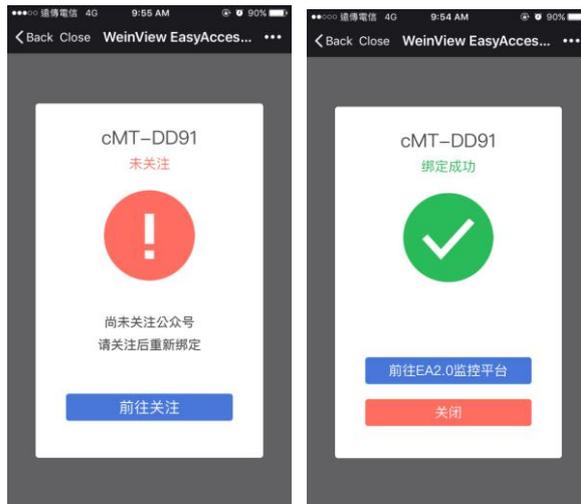
- ✓ HMI with EasyAccess 2.0 activated in China server, and connecting to China server.
- ✓ Event log entries having push notification enabled
- ✓ Wechat account following EasyAccess 2.0 Official account and linked with HMI.

The only way to link Wechat account with HMI is by scanning a QR code in Wechat. In the EasyBuilder Pro, create a Wechat bar code object, and set its address to the system reserved address LW-11770. (also available as a tag in the label library) Then, configure the project so that the bar code object will be visible and has reasonable size for its HMI screen size.



On HMI, navigate to the barcode object on HMI, and then scan the barcode in Wechat, and then follow the in-app instructions to complete linking. You may be requested to follow EasyAccess Official account on Wechat if haven't already done so. In that case, follow EasyAccess Official account and then re-scan the bar code to

proceed with account linking.



Once linked, the device will receive notification in Wechat when an eligible event occurs. In addition, there will also be Wechat messages when HMI connects to the server or disconnects from the server.



To manage the linked HMI, use the HMI management tool located at the bottom of the chat page and follow on screen instructions to unlink HMI.

*Note: Following EasyAccess 2.0 Official account is an essential step for receiving push notification on Wechat. Also, note it is not necessary for an HMI to be added to any domain, nor is a domain user account needed to use Wechat push notification.*

## 18. Data Top-up

Currently, an HMI has 1GB of high-speed data per month for free. Once free data cap has been exceeded, speed will be limited to 5kB/s.

For additional high-speed data, data top-up from a top-up card is required. The card comes in 5GB or 10GB, with one-year validity. When an HMI reaches its data cap for the month, top-up data will kick in and the data from the top-up card will be consumed to maintain high-speed data transfer.

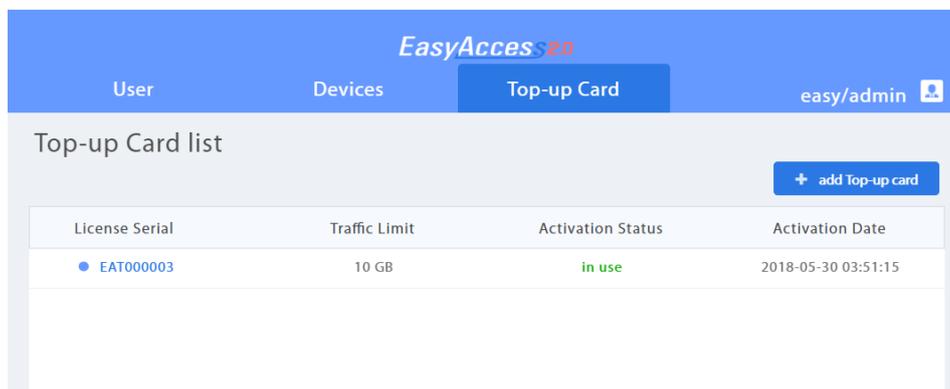
Top-up cards are available for purchase through Weintek's dealer; please contact your dealer for purchase details.

### Loading top-up data

Load up top-up data with the following simple steps:

1. Obtain a Top-up card. It should come in electronic form, containing License Serial and Activation Code.
2. Go to Top-up card section in domain management system.
3. Click on the "add Top-up card" and then enter the License Serial and Activation Code to add the Top-up card.
4. Once successfully loaded, top-up data will be available within a few minutes.

Double-clicking on any one of the cards will display current usage and use history for the card. Similar "Domain Traffic Usage" information is also visible at the top left corner in the EasyAccess 2.0 application.



License Serial	Traffic Limit	Activation Status	Activation Date
● EAT000003	10 GB	in use	2018-05-30 03:51:15

### *Top-up Card List*

As Top-up data is associated with domain, all HMI and users in a domain will share the top-up data purchased. Also, adding multiple cards within a domain is allowed, and data from the card with the earliest expiration date will be used first.

## 19. Frequently Asked Questions

### Activation/ Domain Registration

**Q:** After registering for a domain account, when trying to log in, it says my registration was incomplete?

**A:** After initial registration, an email will be sent to the email address. You must click on the link in the email to complete registration.

**Q:** I cannot activate while using PC Activator. HW Key text field is showing “Not Supported.”

**A:** Please check the HMI’s OS and refer to [16 PC Activator](#) for the list of PC Activator - supported model and OS version.

**Q:** I’ve just updated my OS to the latest release, but my activation disappeared. Do I have to re-activate?

**A:** In the EasyAccess 2 tab, click on the [Refresh] button. EasyAccess 2.0 will be re-activated if the same HMI was previously activated.

**Q:** My HMI is broken down and I am sending back my machine for repair. Can I use my old EasyAccess 2.0 license on my replacement machine?

**A:** Please contact us by service request on our [website](#).

**Q:** I do not see the EasyAccess 2 tab.

**A:** Please check the HMI’s OS and refer to [20\\_References](#) for the list of EasyAccess 2.0 - supported model and OS version.

**Q:** On the EasyAccess 2 tab, it says “connect to the server fails?” in red.

**A:** The HMI cannot connect to the internet. Please make sure Internet access is available to the HMI. Check the IP address, Gateway, and DNS address settings. If the HMI has an OS version prior to 20140814, you might see this message too. This indicates that security certificate on the HMI has expired and cannot work with the EasyAccess 2.0 server. In order to use EasyAccess 2.0 again, you must update the certificate manually. The update procedure is as follows:

1. With the latest EasyBuilder Pro, download the EasyAccess 2.0 [Demo project](#) (or any project which allows LW-10820 to be set to 1) to the HMI. When

- downloading, make sure EasyAccess 2.0 checkbox is ticked.
2. On the HMI, click the “connect” button (or set LW-10820 to 1); security certificate update will begin.
  3. Check the activation status again in the system information page.

### EasyAccess 2.0 Application

**Q: When I run EasyAccess 2.0 on PC, I see weird graphic display like white dots everywhere and missing words.**

A: Your PC may not have full support of graphic rendering method used by EasyAccess 2.0 client program. Run “Display Settings” to select the one that gives the best rendering result.

**Q: When I try to connect to EasyAccess 2.0 by setting LW-10820, nothing happens.**

A: There are many possibilities, here is the list for a few of them:

1. Please make sure that EasyAccess client program is in the HMI. It should have been downloaded to the HMI during project download. If not, check the version of EasyBuilder Pro used and whether easy\_access\_client.e30 is in the firmware folder.
2. The time setting of HMI may be incorrect. If time setting on HMI vastly different from the current time, its security certification will be considered expired and connection will fail.

**Q: How do I update EasyAccess 2.0? Do you provide regular updates?**

A: Yes, Weintek will provide feature and bug fixing updates on a regular basis. For the latest PC, iOS, Android software, please download from our website, the App Store, and Google Play Store, respectively.

HMI’s EasyAccess client program is updated when you download any new program with EasyBuilder Pro. When EasyBuilder Pro detects that HMI has an EasyAccess 2.0 client program older than the one bundled to that EasyBuilder Pro version, it will download and update the one in HMI automatically.

**Q: All my settings seem correct, and I see my HMI online in China. However, I just cannot make a connection sometimes! Is EasyAccess 2.0 service available everywhere?**

A: Due to possible restriction of VPN traffic imposed by Chinese authorities, EasyAccess 2.0 connection may sometimes fail when network traffic has to travel

across the “borders”.

Access Location	Server in use	HMI Location	Connection Quality
Outside of China	Global	Outside of China	OK
China	Global	Outside of China	May be Affected
Outside of China	Global	China	May be Affected
China	Global	China	May be Affected
Outside of China	China	Outside of China	May be Affected
China	China	Outside of China	May be Affected
Outside of China	China	China	May be Affected
China	China	China	OK

As a rule of thumb, network traffic that needs to traverse across China’s firewall may be affected. In this case, do not disable Weintek P2P.

**Q: I notice that VPN IP address can change between sessions. Is it normal?**

A: Yes, it is perfectly normal. EasyAccess 2.0 connections are established on demand, so VPN IP address may change. The application will determine the proper mode to use based on current network conditions.

**Q: When I try to log in with my user account, I always get incorrect username/password error.**

A: Make sure that you are logging in to the right server. Currently there are Global and China servers and they are independent of each other. Their domain management web URL are different, and in EasyAccess 2.0 application, there is an option to choose the server to connect to.

## Mobile App

**Q: When using EasyAccess 2.0 mobile client, I get “EasyAccess 2.0 OPVN Connector” Error. (Android)**

A: Make sure that OVPN is installed. Also, make sure that OVPN is authorized and trusted.

**Q: When using EasyAccess 2.0 mobile client, I get “cannot open VNC” related error.**

A: Make sure that VNC Viewer is installed and that the correct VNC Viewer app has been designated in the VNC setting page.

## 20. References

### System Parameters

Restriction	Description
<b>Data Rate and Usage Limit</b>	Data rate at 100 kB/s for the first 1GB and 5 kB/s after. Usage count restarts on the 1st day of each calendar month.
<b># of Domain an HMI can be registered in</b>	1
<b># of users an HMI can be connected by at a time</b>	1. See "Occupied" status in Appendix.
<b># of HMI a user can connect to at a time</b>	3 (Mobile) / 10 (PC)
<b>Service Port</b>	HTTPS port (443)
<b>Ethernet-Ethernet Pass-through</b>	1 IP

### Model and OS Support

#### HMI OS versions that support **EasyAccess 2.0**

Model	OS version or later
<b>eMT3070A</b>	20140624
<b>eMT3070B</b>	All versions
<b>eMT3105, eMT3120, eMT3150 *</b>	20140701
<b>MT8070iE, MT8100iE</b>	20140626
<b>MT8050iE, MT8071iE, MT8101iE</b>	20140624
<b>MT8090XE, MT8091XE</b>	All versions
<b>MT8121XE, MT8150XE</b>	20140624
<b>mTV-100</b>	20140815
<b>cMT-SVR</b>	20140715
<b>All other models</b>	All OS versions

\* EasyAccess 2.0 is not available for eMT3105, eMT3120 and eMT3150 shipped prior to June, 2012.

## 21. Appendix

### Terminology

#### (Online Status) Online:

When an HMI goes online, it sends keep-alive information to a keep-alive server and lets all EasyAccess 2.0 clients know it is ready for connection. There is still no connection in this state unless one EasyAccess 2.0 client connects to it.

#### (Online Status) Occupied:

When an EasyAccess 2.0 client connects to the HMI, then the HMI is **occupied** and no other EasyAccess 2.0 client can connect to it until it is disconnected.

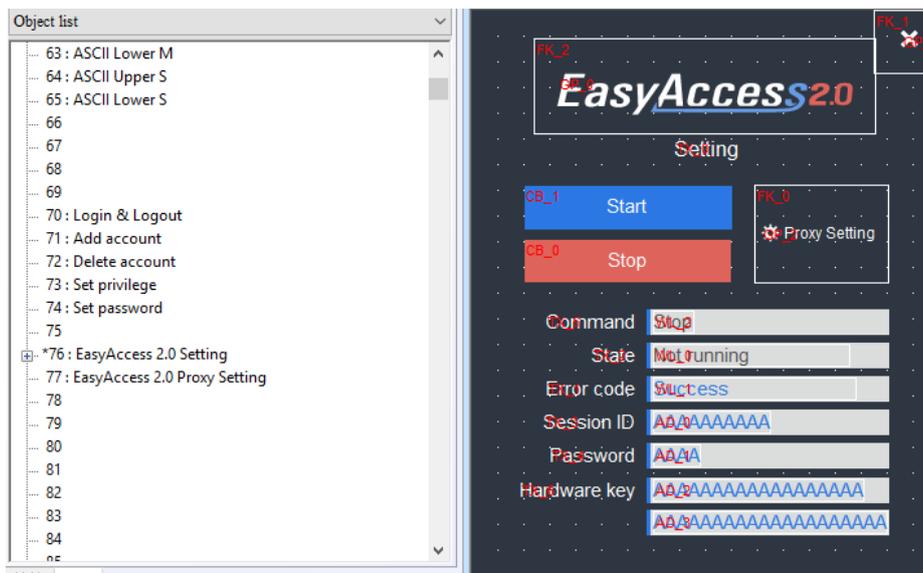
### EasyBuilder Pro System Tags

A number of system tags are added to EasyBuilder Pro for exclusive use of EasyAccess 2.0.

System Tag	Function
<b>LW-10820 (16bit)</b>	Connect/Disconnect EasyAccess 2.0
	<i>0: Disconnect</i> <i>1: Connect</i>
<b>LW-10828 (16bit)</b>	EasyAccess 2.0 <a href="#">Online Status</a>
	<i>0: Disable</i>
	<i>1: Offline</i>
	<i>2: Online</i>
	<i>3: Occupied</i>
<i>4: Download client update</i>	
<b>LW-10829 (16bit)</b>	Error code provides information about error status while the HMI is going online on EasyAccess 2.0.
	<i>0: Success.</i> <i>(Connection successful)</i>
	<i>1: Not activated.</i> <i>( EasyAccess 2.0 function is not activated on the HMI)</i>
	<i>2: Log-in timeout</i> <i>(Outbound connection is broken or the server is down)</i>
	<i>3: Certificate expired</i> <i>(License Key has expired. Please check with distributor.)</i>

	<p>4: HMI client not ready (Open and close client too frequently)</p> <p>5: HMI client will update (Update is downloaded and ready)</p> <p>6: HMI client does not exist (Client program does not exist in HMI memory)</p>
<b>LW-10821</b> <b>(5words, ASCII)</b>	Session ID. This is used to add an HMI to a Domain.
<b>LW-10826</b> <b>(2words, ASCII)</b>	Session Password. This is used to add an HMI to a Domain
<b>LW-11210</b> <b>(20words)</b>	Hardware Key
<b>LW-11296</b> <b>(16bit)</b>	<p>Location of EasyAccess 2.0 server</p> <hr/> <p>0: Global</p> <p>1: China</p>

*Note: Demo pages using these system registers have been added to the template file in EasyBuilder Pro. Look for them when opening a new file to save time in your project design. Refer to Appendix for an example.*



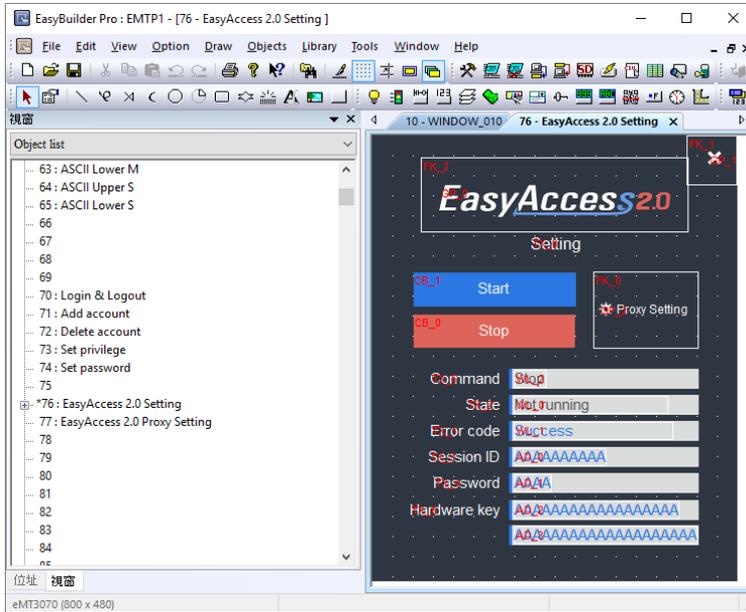
*EasyAccess Page in the Template File*

### Example for preparing EasyAccess 2.0 page

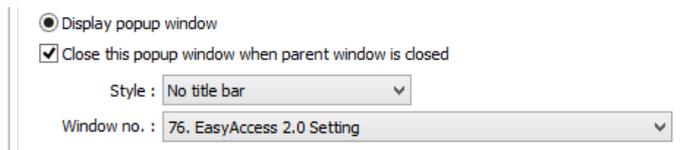
Here are the steps for preparing EasyAccess 2.0 page from the new template file in

EasyBuilder Pro.

1. Create a new project using templates, and you can see window #76 as below:



2. In window #10, add a [Function Key] object to popup window #76.



3. Download the project to HMI.
4. On HMI, click the [Function Key] object which was just added.
5. Click "Start" button.

If the network setting of the HMI is correct, the state will be online like the following:

