



Weintek USA, Inc.
www.WeintekUSA.com
(425) 488-1100

User Manual

EasyAccess2.0 Startup Guide

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1. Introduction

Overview

Traditionally, HMI was dedicated to communicating with local industrial controllers such as PLCs on the plant floor. People from a remote location is difficult to remote access HMIs and PLCs for troubleshooting, maintaining, or reconfiguring the machines because establishing communication such as network parameters setup is tricky. Moreover, security is the biggest concern for plant managers even though network departments can do the proper network setting. EasyAccess 2.0, which is exclusively designed for Weintek's HMIs, provides a way for remote access and manage HMIs from anywhere in the world. With EasyAccess 2.0, it becomes straightforward to monitor and troubleshoot HMIs and PLCs that are at a remote location as long as the Internet connection is available. EasyAccess 2.0 already manages network settings and addresses security issues, so authorized users out of the plant can reach to the machines as if they were on the local network

Consider a machine builder that sells machines with Weintek HMIs installed. One of its overseas customers reports an issue by phone call and requires troubleshooting. Instead of having a plane flight to plants of the customers, an engineer can remotely connect to the HMI through EasyAccess 2.0 to investigate the problem. He can also update the HMI project, monitor the PLC through Ethernet Pass-through, or even update the PLC program.

License

The license of EasyAccess2.0 is activating the EasyAccess2.0 feature on your HMI. Activation Card, which is a license card for EasyAccess2.0, can be purchased from Weintek USA to enable this feature. The activation status can be found from System settings toolbar of the HMI screen » [EasyAccess2.0] tab. Some HMI models are pre-licensed, so you don't have to purchase an Activation Card to activate your HMI if the model is pre-licensed.

Model	Pre-licensed	Activation required
cMT Series		
cMT-SVR-100		√
cMT-SVR-102	√	
cMT-SVR-200		√
cMT-SVR-202	√	
cMT-Gxx (IIoT Gateway)		√
cMT-CTRL01		√
cMT-X Series		
cMT-FHDX-220		√
cMT2078X		√
cMT2108X		√
cMT2158X		√
cMT3072X		√

cMT3072XH		V
cMT3092X	V	
cMT3102X		V
cMT3152X	V	
cMT3161X		V
cMT3162X		V
iP Series		
MT8051iP		V
MT8071iP		V
MT8071iP2		V
MT8102iP		V
iE Series		
MT8050iE		V
MT8053iE	V	
MT8070iE		V
MT8071iE		V
MT8073iE	V	
MT8101iE		V
MT8102iE		V
XE Series		
MT8090XE		V
MT8092XE	V	
MT8121XE3		V
MT8150XE		V
eMT Series		
eMT3070B		V

Note: For other HMI models which are not listed above, please refer to the HMI brochure.

System Requirement

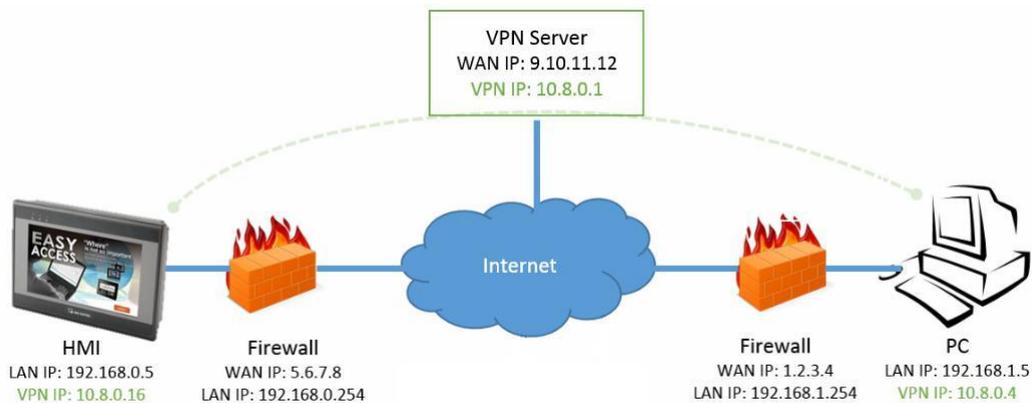
- PC Operation System: Windows® 7, Windows® 10 (32 / 64bit) (Administrator privilege required)
- Weintek HMI with EasyAccess 2.0 license
- Internet connection
- EasyAccess2.0 application
- EasyBuilder Pro (for serial pass-through, transfer HMI project)

2. Concept

Understanding EasyAccess2.0 technology

EasyAccess 2.0 technology is quite different from the traditional method of establishing remote access. Here is the comparison table.

Traditional remote connection (blue links)	EasyAccess 2.0 (green dotted links)
Connection traffic must pass through a number of firewalls, which means there are layers of network settings.	PC and HMI both connect to a dedicated VPN server, through which data are exchanged, or by P2P.
Network/Router setting is mandatory; therefore, coordination with the IT department is crucial.	No additional network setting is required.
For one WAN IP, only one device can be connected.	For one WAN IP, multiple devices can be connected.
For a device behind two or more routers, the connection might not be possible.	Being behind several routers does not affect EasyAccess 2.0 connectivity at all.



EasyAccess 2.0 Network Overview

Understanding Domain, HMI Group, and User in EasyAccess2.0

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

Domain and Domain Administrator- The basic block of HMI management. One Domain account may contain several Users, HMIs and HMI groups. However, each HMI can belong to only one Domain. The Domain Administrator manages all aspects of the domain through the web-based portal at (<https://account.ihmi.net>). The domain administrator account can also be used for logging in to the EasyAccess 2.0 server.

HMI- HMIs within a domain. The Domain Administrator can add HMIs to its Domain.

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

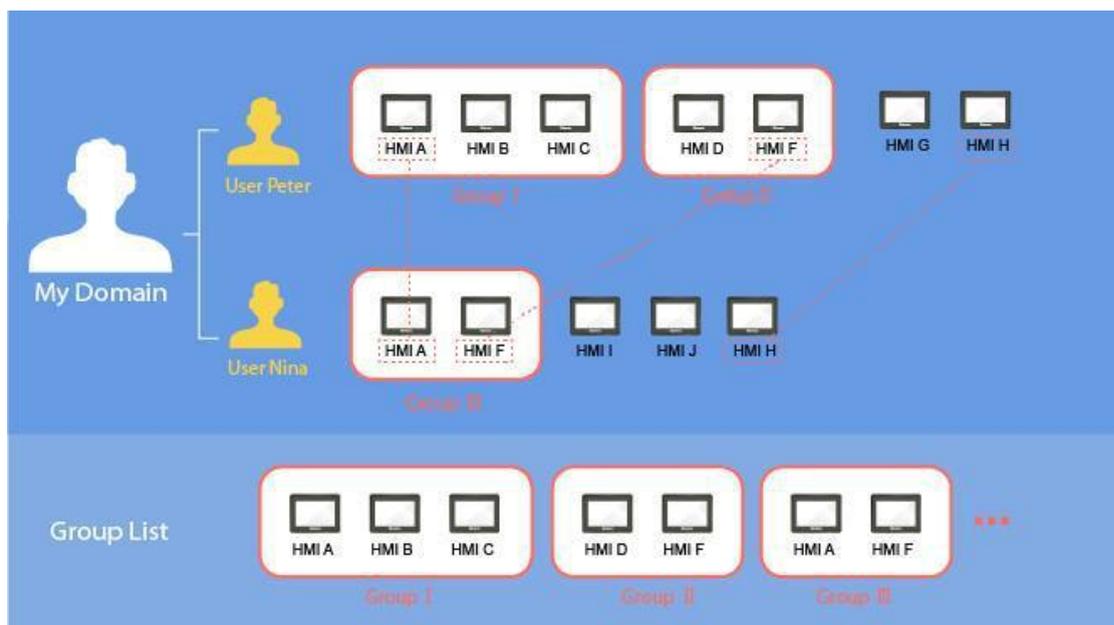
User- A user holds the account used to login in to the EasyAccess 2.0 server. They are allowed to access HMIs for which it has a direct association, and also HMIs within the group it is associated. User’s relationship with HMIs and HMI Groups are managed by the Domain Administrator.

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, there are two users, Peter and Nina, in this domain. (The domain is named “MyDomain”)
- HMIs are grouped as Group I, Group II, Group III, and HMI A belongs to more than one group. (Group I and Group III)
- Users have access to HMIs in the group they’re associated with. (Peter can access HMIs in the Group I and Group II.)
- Users can be directly associated with HMIs and have access to them. (Nina can access HMI I, J, and H.)
- Multiple users can access the same HMI, whether by assigning users to groups (HMI A) or by assigning HMIs to users (HMI H).

All of the above are managed by the Domain Administrator.

3. Setup Checklist

The following checklist is used to make sure if setups are completed before using EasyAccess2.0. For more information, please refer to the relevant sections.

Setup checklist for Domain Administrator

Items	Relevant Sections
1. The HMI must be activated. (if your model is not pre-licensed)	Chapter 5 - Activation
2. The HMI must be added to a Domain	Chapter 5 - Activation (Licensed required models) Chapter 6 - Adding Pre-Licensed Models to the Domain (Pre-licensed models)
3. You must have a user account which is associated with the HMI or use the admin account directly.	Chapter 7 - Managing the Domain
4. EasyAccess2.0 application must be installed on the PC.	Chapter 8 - Installing EasyAccess2.0 Application on PC
5. The HMI must be connected to the EasyAccess2.0 Server.	Appendix A - Connecting the HMI to EasyAccess2.0

Setup checklist for User

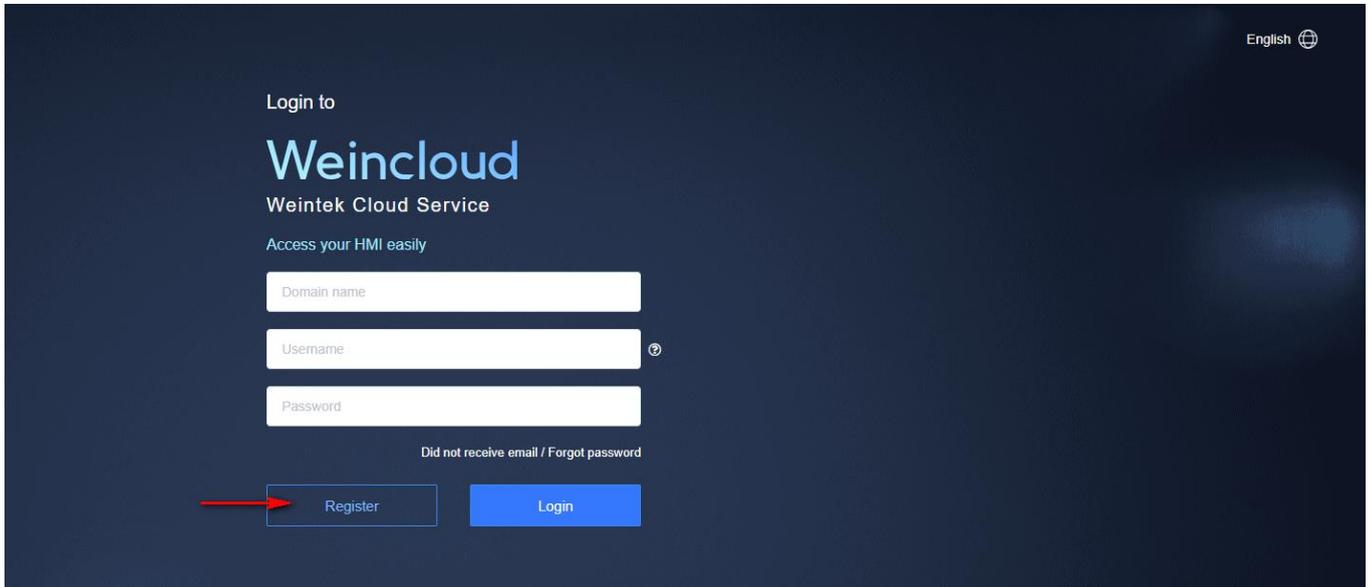
Items	Relevant Sections
1. You must have a user account which is associated with the HMI.	Ask your Domain Administrator Chapter 7 - Managing the Domain
2. EasyAccess2.0 application must be installed on the PC.	Chapter 8 - Installing EasyAccess2.0 Application on PC
3. The HMI must be connected to the EasyAccess2.0 Server.	Ask the machine operator on the site Appendix A - Connecting the HMI to EasyAccess2.0

Once the above setups are completed, you can start to remote access the HMI.

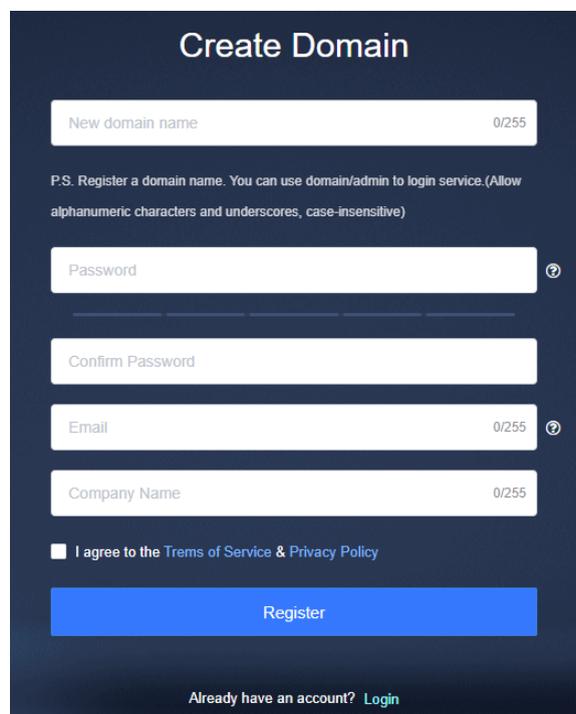
4. Domain Creation

An administrator can create a domain for free.

1. Go to <https://www.weincloud.net/account/login?from=easyaccess&redirect=%2Ftopup-card> to create your domain. Click on the [Register] button.

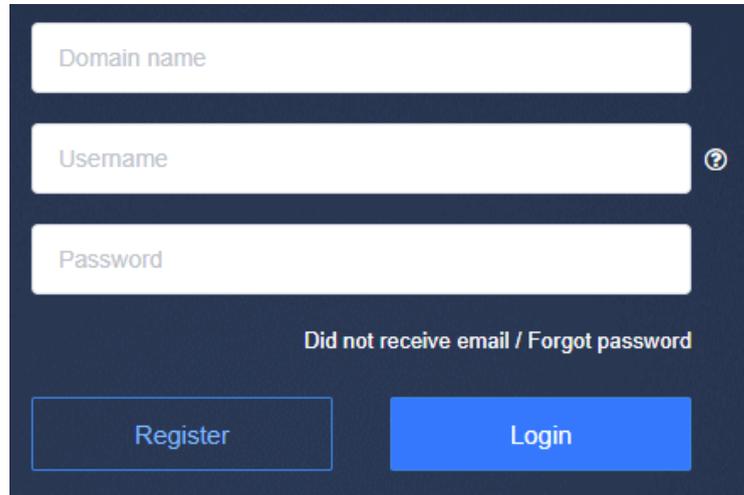


2. Fill out the following boxes. The valid e-mail address is required to receive emails sent from the EasyAccess2.0 team. You must activate your domain via that email.



5. Activation

1. Go to <https://www.weincloud.net/account/login?from=easyaccess&redirect=%2Ftopup-card>
2. Log in to your domain with the name of your Domain and the admin password.

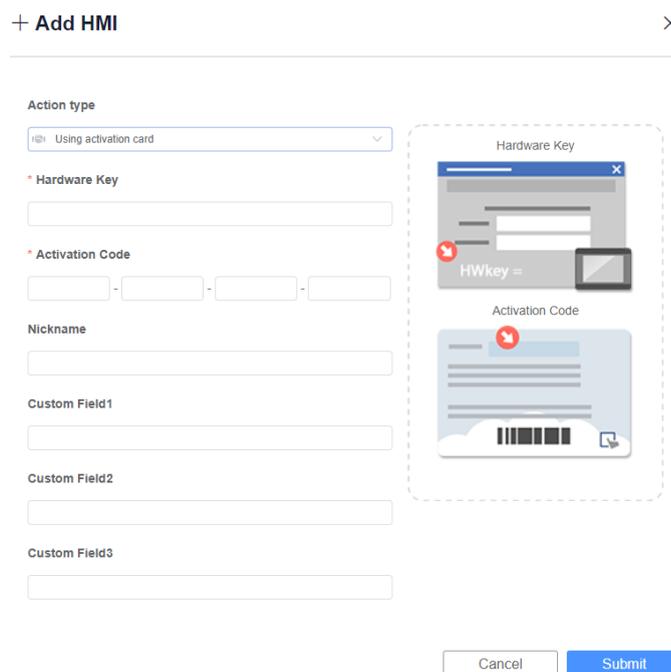


3. Click [Device] on the navigation pane. Within the [HMIs] tab, select [Add HMI].
4. Select [Using activation card] within the “Action type” and fill out **Hardware Key** as well as **Activation Code**. Click [Submit].

Hardware Key- This can be found from System settings toolbar of the HMI screen » [EasyAccess2.0] tab. You will have to enter the password to access this tab. The default password is 111111.

Note: If your model is cMT-SVR, which is a screenless HMI, use a web browser to find the Hardware key. Please refer to cMT-SVR User Manual (Chapter 2 Web Interface » EasyAccess2.0)

Activation Code- This code is displayed on the activation card you purchased.



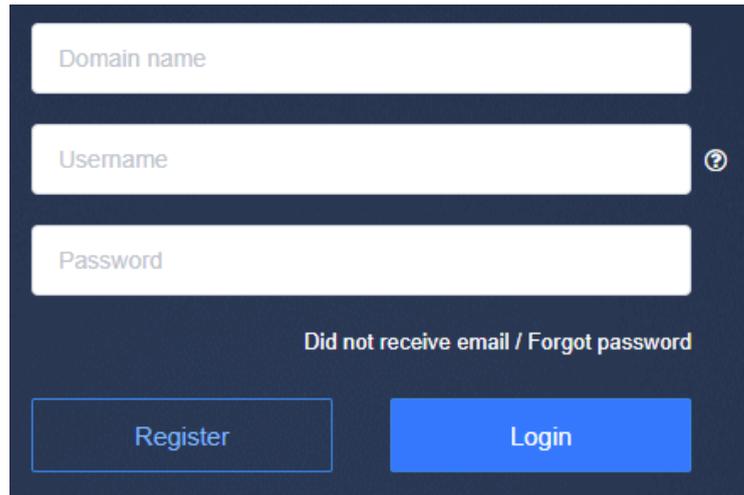
Once the activation succeeds, your HMI will be automatically added to this domain.

Note: If you delete the HMI from this domain by [**Transfer HMI**] and want to add it to another domain, you will have to use [Add by session id/password]. Please refer to chapter 6 **Adding Pre-Licensed Models to the Domain** in this user manual.

6. Adding Pre-Licensed Models to the Domain

Before beginning to add your HMI to the domain, please follow the steps on **Appendix A - Connecting the HMI to EasyAccess2.0**.

1. Go to <https://www.weincloud.net/account/login?from=easyaccess&redirect=%2Ftopup-card>
2. Log in to your domain with the name of your Domain and the admin password.



Domain name

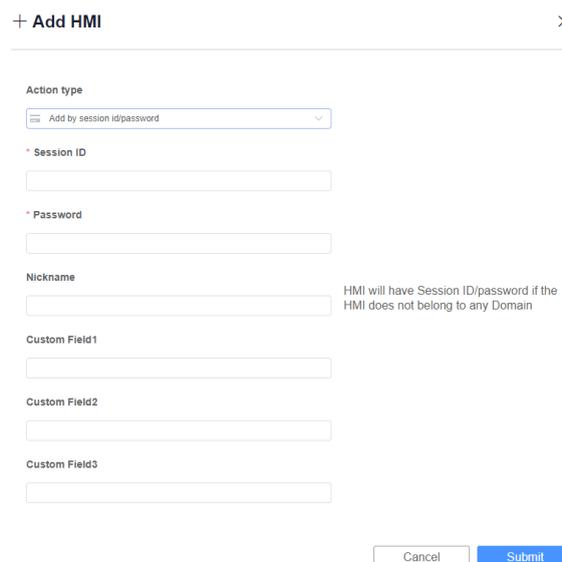
Username ?

Password

Did not receive email / Forgot password

Register Login

3. Click [Device] on the navigation pane. Within the [HMIs] tab, select [Add HMI].
4. Select [Add by session id/password] within the “Action type”. Fill out the Session ID and Password of the HMI. The Session ID and Password are displayed on the HMI screen. Click [Submit] to complete.



+ Add HMI ×

Action type

Add by session id/password

* Session ID

* Password

Nickname HMI will have Session ID/password if the HMI does not belong to any Domain

Custom Field1

Custom Field2

Custom Field3

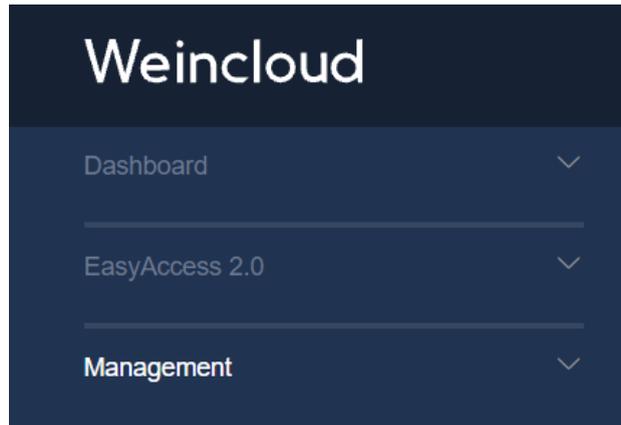
Cancel Submit

Once it succeeds, your HMI will be added to the domain.

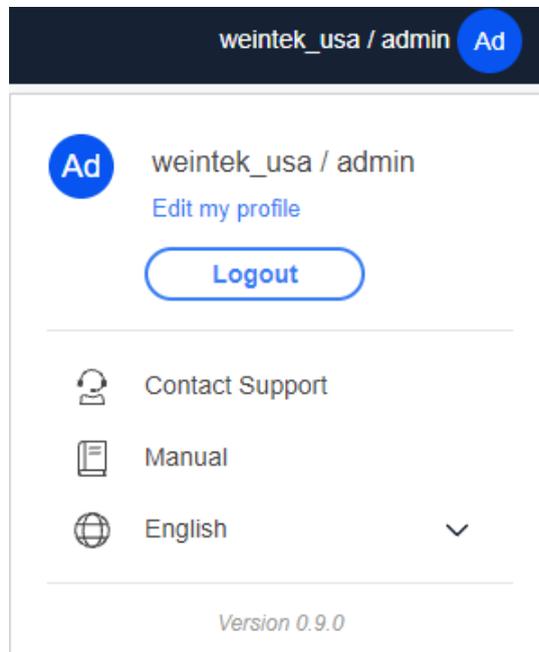
7. Managing the Domain

Go to <https://www.weincloud.net/account/login?from=easyaccess&redirect=%2Ftopup-card>
Log in to your domain with the name of your Domain and the admin password.

The menu list on the left is displayed as shown. There are three sections, including **Dashboard**, **EasyAccess2.0**, and **Management**.



The admin icon in the top right corner shows the name of the administrator. Click [Edit my profile] to change the admin password if needed.



User Management

The **User management** page displays user information in the domain. In this page, the administrator can manage users by the following actions: create user, edit user, and delete user.

User Management			
View and update your account details, profile and more			
Quick Search			
+ Create			
User Name/Email Address	Role	Company Name	Status
 admin	admin	Weintek USA	Activated 
 client	user		Activated 
 tim	superuser	WUSA	Activated 

Add User- A new user can be created by clicking on the [Create] button in the top right corner. Within the popup window, give the user name and password. Enter user's email address on the "Email" entry box. A confirmation email with essential information will be sent to this email address. The user must activate the account by clicking on the confirmation link.

Add User

User Name

Password

Confirm Password

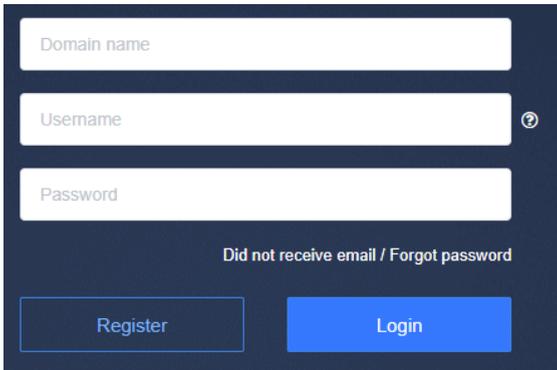
Email

Roles User Superuser

Company Name

"Superuser" has the ability to create "users", add HMIs, and manage the HMIs as well as users, but don't have the right to create or delete another "superuser". The administrator still has complete control over the domain.

The password can be changed by the user himself. To do this, go to WeinCloud login page and select [Forgot password]. Follow the screen guidance to change the user password.

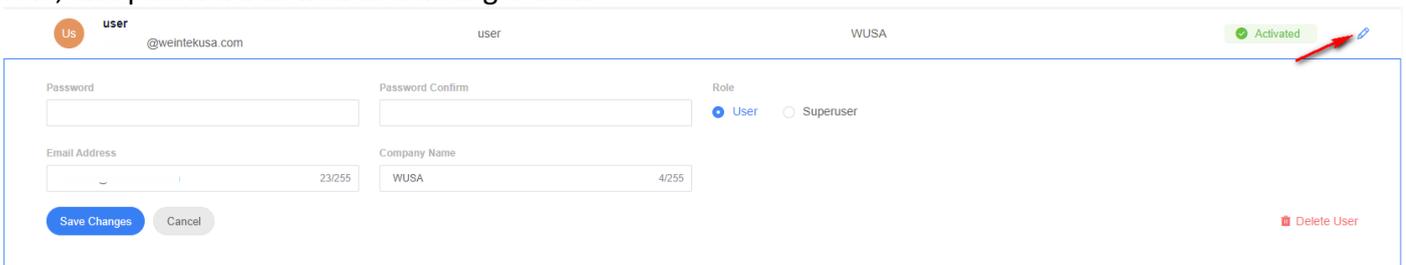


The login form features three input fields: 'Domain name', 'Username', and 'Password'. Below the fields is a link that reads 'Did not receive email / Forgot password'. At the bottom, there are two buttons: 'Register' and 'Login'.



The 'Forgot password' dialog box contains two required input fields: '* Domain Name' and '* User Name'. It includes 'Submit' and 'Cancel' buttons at the bottom.

Edit User & Delete User- The administrator can edit user information such as changing the email address, role, and password as well as deleting a user.

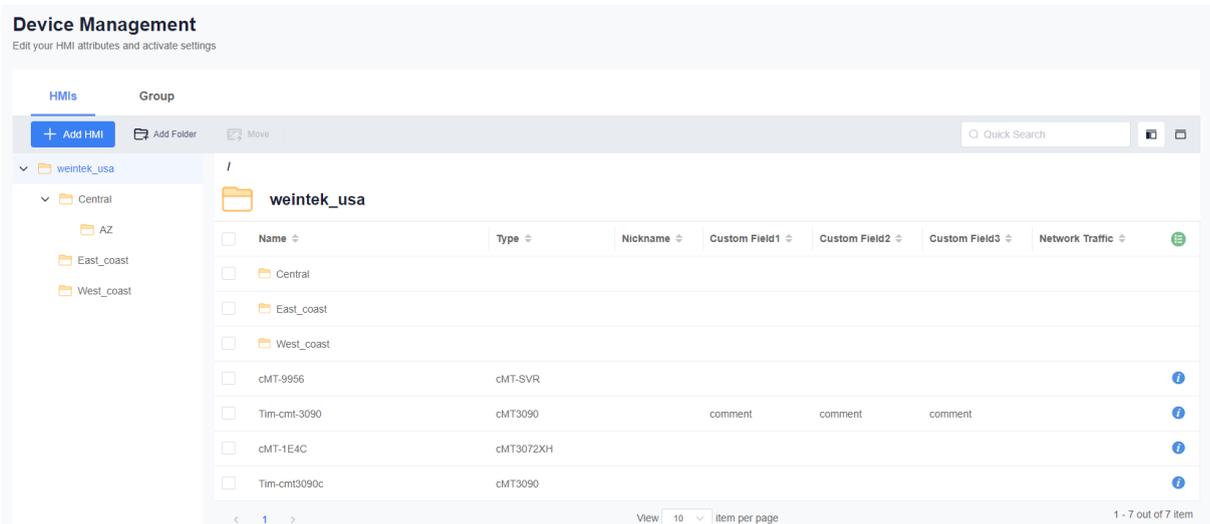


The user management interface shows a user profile for 'user' with email '@weintekusa.com' and company 'WUSA'. The user is currently 'Activated'. The interface includes fields for 'Password', 'Password Confirm', 'Email Address', and 'Company Name'. The 'Role' is set to 'User'. There are 'Save Changes', 'Cancel', and 'Delete User' buttons.

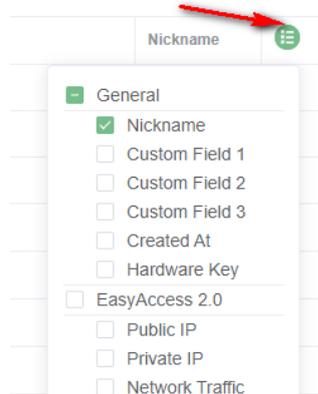
Device Management

Device Management» HMIs

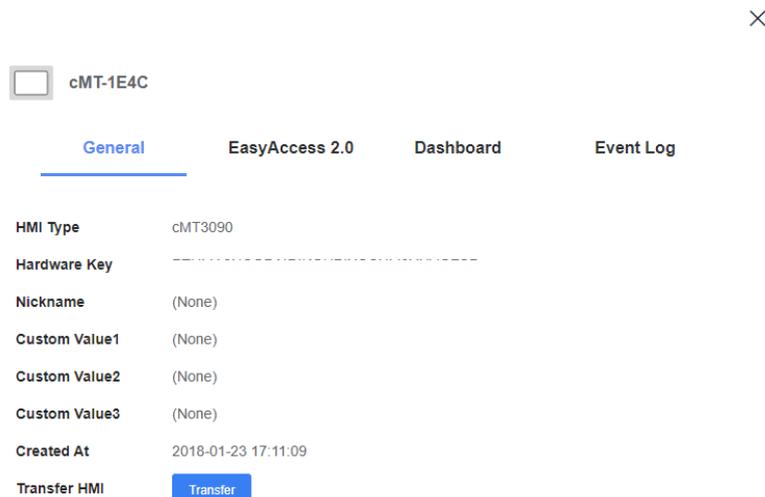
The **HMIs** page shows all HMIs registered in this domain. Click the **info** icon and navigate to the [EasyAccess2.0] tab to see the HMI information including private IP, public IP, activation date, hardware key, nickname and so on.



Or click on the “green” button to insert new columns into the table.



On the [General] tab, the administrator can click the [Edit] button to write comments within “Custom Field1”, “Custom Field2”, and “Custom Field3”.



Transfer (Transfer HMI)- This action can delete the selected HMI from this domain. Once deleted, the HMI can be added to another domain with a new session id and password.

Delete HMI



 You can transfer HMI to another domain.

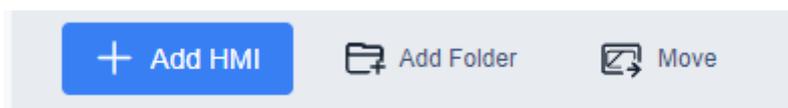
This action will remove HMI from this domain and then it can be added to another domain by using Session ID and password.

Are you sure to transfer this HMI (Tim-cmt-3090) to another domain?

Cancel

Delete

In the **HMIs** page, the administrator can manage HMIs by performing the following actions: Add HMI, Add Folder, and Move.



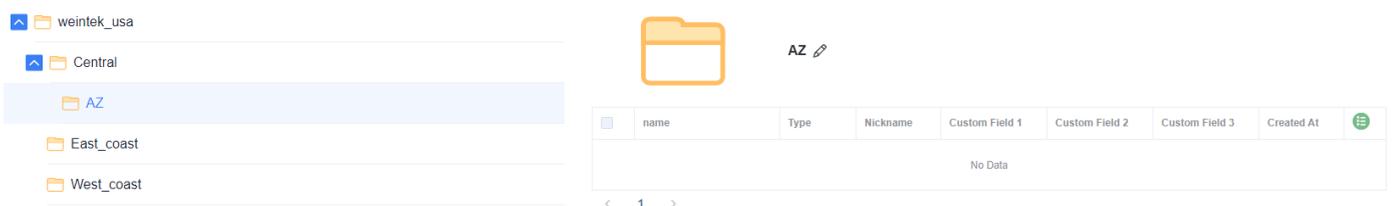
Add HMI- This action can add a new HMI to the domain.

- **Action type » Using activation card**
Activate the HMI and adds it to the domain. Hardware key and activation code are required.
- **Action type » activate by session id/password**
Add the HMI to the domain by Session ID and Password. Session ID and Password are required.
- **Action type » 30 days free trial (For more information, please see Appendix C - Free Trial)**
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. The HMI will be allowed to be deleted from the domain and added to another one until it has been activated with an activation code.

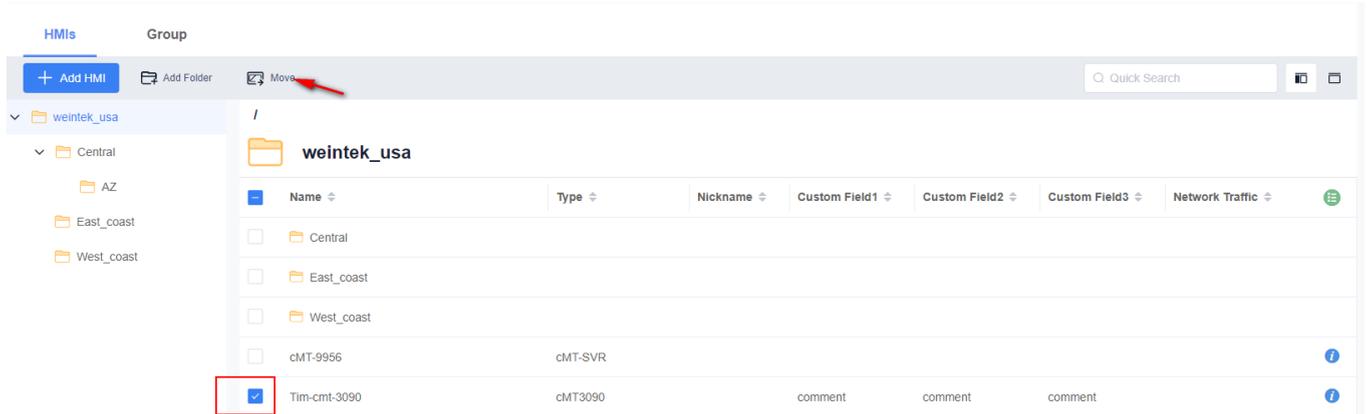
Add Folder- This action can create folders in order to classify HMIs.

For example, to classify HMIs by territories, follow these steps.

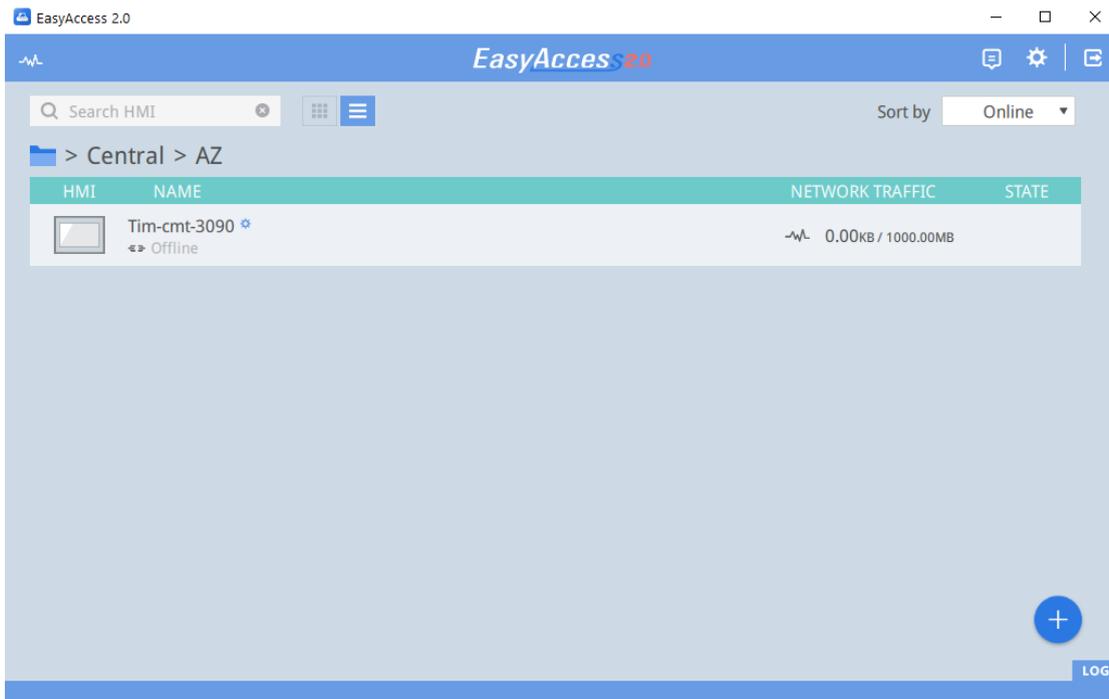
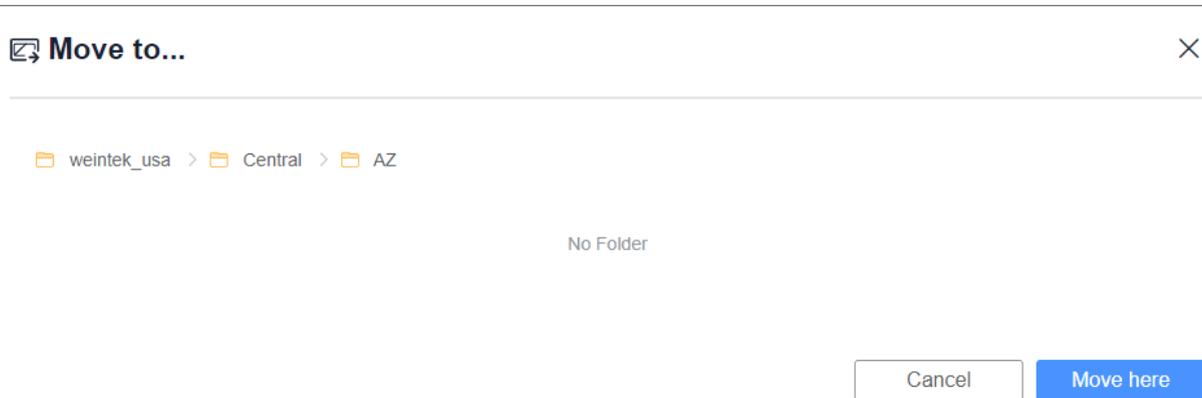
1. Click on the [Add Folder] button on the toolbar.
2. Give a name to the folder and then click [Save] to confirm. The new folder will be created.



3. Select the desired HMI and click the [Move] button.



4. Within the popup window, navigate to the desired directory and then click the [Move here] button. In this example, navigate to the **Central>AZ**.

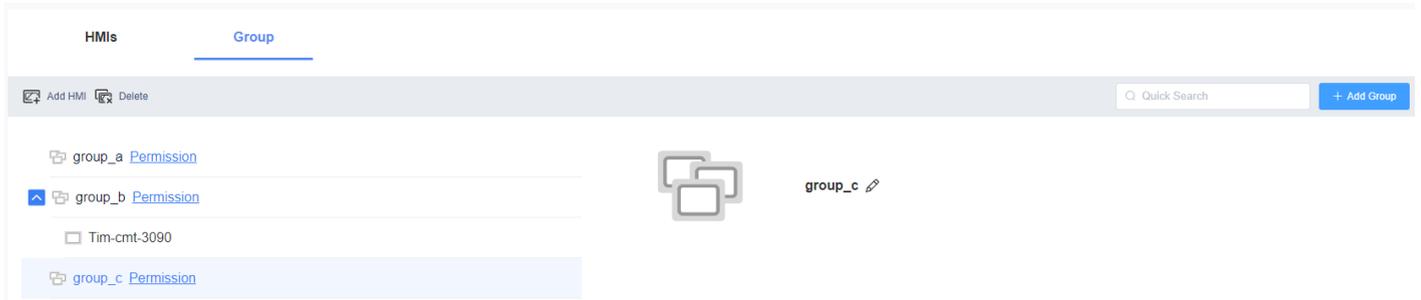


On EasyAccess2.0 application (client)

Note: This feature requires version 2.7 or greater of EasyAccess2.0 (client).

Device Management » Group

The **HMI Group** lists all HMI groups created in this domain. The administrator can assign a group to users. In this page, the administrator can manage the HMI group by the following actions: add group, add HMI, and delete group.



Add Group- This action can create a new HMI group.

A dialog box titled '+ Add Group' with a close button (X) in the top right corner. Below the title is a text input field labeled '* New Group Name'. At the bottom of the dialog, there are two buttons: 'Cancel' and 'Save'.

Add HMI- This action can add the selected HMIs to a group.

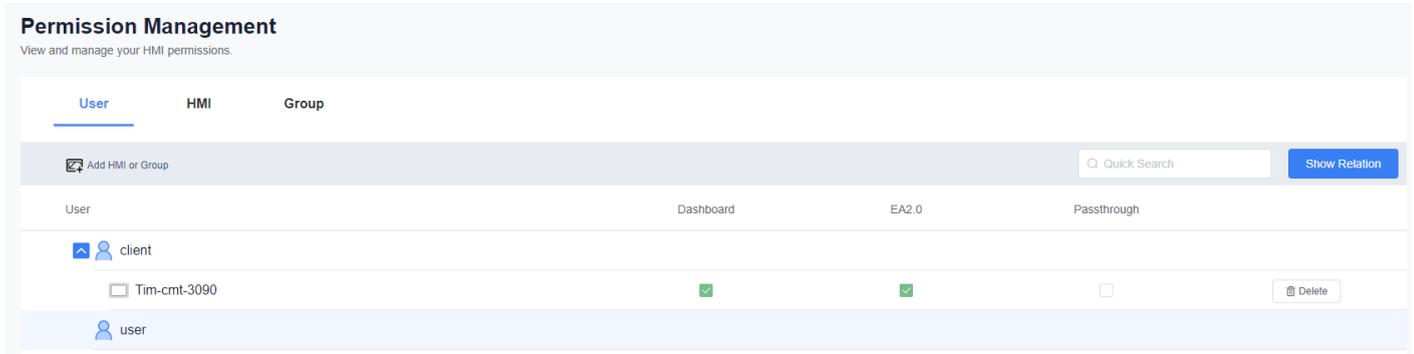
A dialog box titled '+ Add HMI' with a close button (X) in the top right corner. Below the title is the label 'HMI'. There is a 'Quick Search' input field. Below the search field, there is a list of HMI items, with 'Tim-cmt-3090' visible and a checkbox next to it. At the bottom of the dialog, there are two buttons: 'Cancel' and 'Save'.

Delete (Delete group)- This action can delete the selected group.

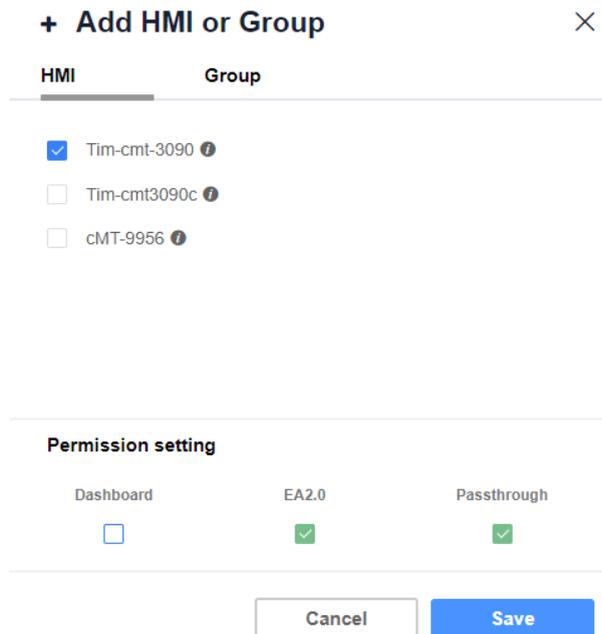
A warning dialog box titled 'Warning' with a close button (X) in the top right corner. Below the title is an orange warning icon followed by the text 'Are you sure you want to delete group_c?'. At the bottom of the dialog, there are two buttons: 'Cancel' and 'Yes'.

Permission Management

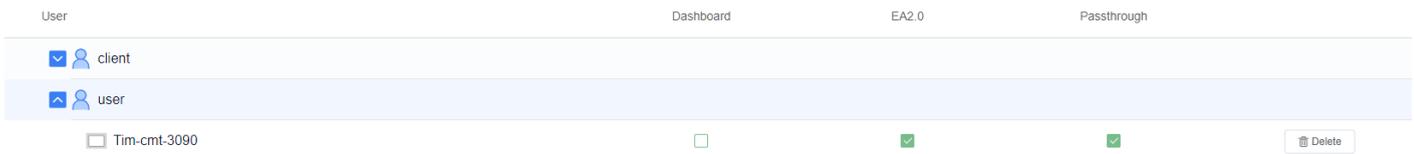
In this page, permission can be granted to perform WeinCloud's services. On the User tab, the administrator can assign an HMI or a group to a user. To do this, select a user from the list and click the [Add HMI or Group] button. In this example, "user" is selected.



On the HMI tab of the popup window, select the HMI and check the permission options within [Permission settings]. "user" will need to access the EA2.0 app and the passthrough functionality, so the following two options are checked.



Permission settings can be changed anytime by clicking on the checkboxes.



Top-up Card

Each 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. Top-up cards must be purchased to obtain additional high-speed data. The card comes in 5GB or 10GB, with one-year validity. When an HMI reaches its data cap for the month, top-up data from cards will be consumed to maintain high-speed data transfer.

The electronic form you purchase from Weintek USA contains the License Serial and Activation Code.

1. Click on [Add Top-up card]. The dialog will prompt you to enter the License Serial and Activation Code.



2. Click on [Assign] to complete.

+ add Top-up card ×

* License Serial

* Activation Code

Assign Cancel

HMI's in this domain will share the top-up data.

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

8. Installing EasyAccess2.0 Application on PC

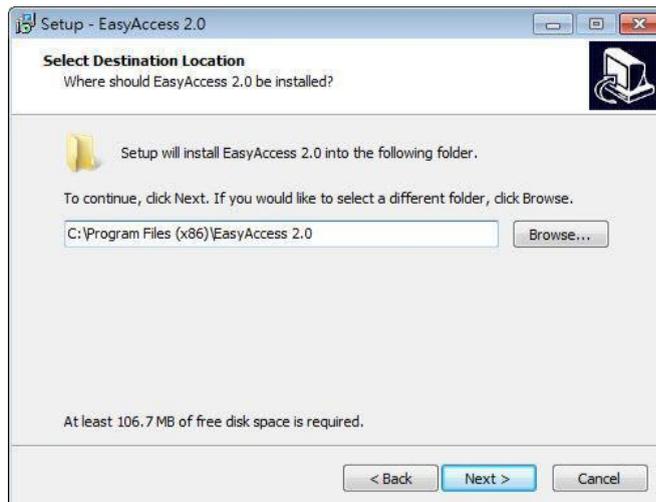
1. Download the setup.exe file from EasyAccess 2.0 homepage (<https://account.ihmi.net/domain/>). If there is a previous version of EasyAccess 2.0 on the PC, please uninstall the previous version before the latest installation.



2. Launch the setup.exe file and then select the language for the installation process. Click [Next].



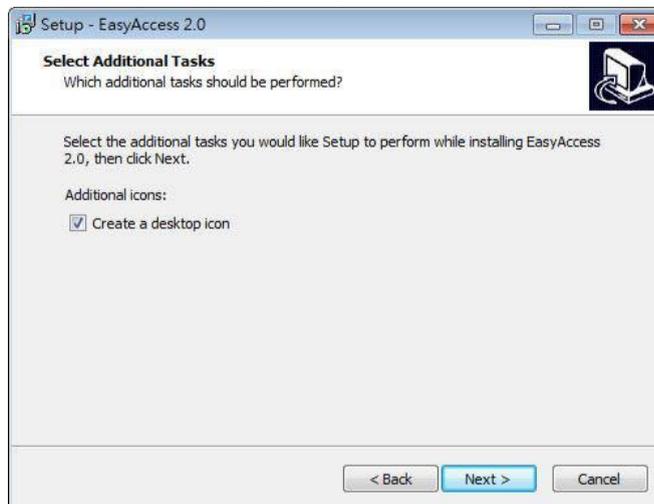
3. Browse a folder for EasyAccess 2.0 installation or use the default folder. Click [Next].



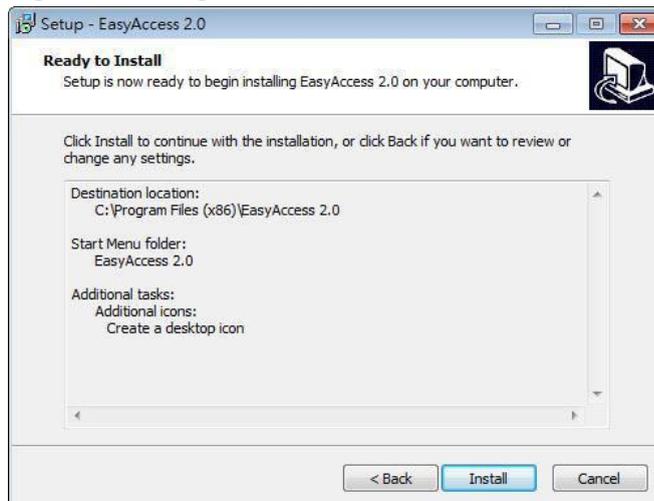
4. Select a start menu folder or use the default folder. Click [Next].



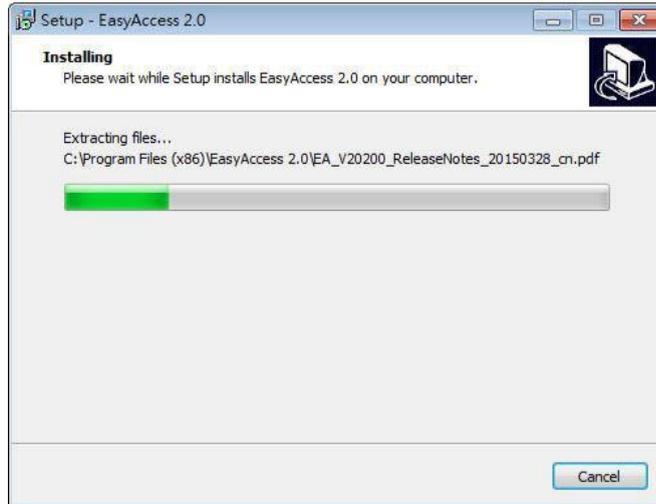
5. Check [Create a desktop icon] if needed. Click [Next].



6. Confirm all settings. To change the settings, click [Back]. To start the installation, click [Install].



7. It will take minutes to complete the installation.



8. Click [Finish] to close the window.



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

File Name	Descriptions
cMT Viewer	The PC application for accessing a cMT HMI.
EasyAccess 2.0	The main application used to establish a remote connection to an HMI.
gui_30	An essential component when using HMI Viewer to monitor a remote HMI.
PC Activator	The application used to activate EasyAccess 2.0 for HMIs on the local network.

9. Using EasyAccess2.0 Application on PC

Note: The version 2.5.10 of EasyAccess2.0 is used in this user manual.

Launch EasyAccess2.0 application and log in with your user account.



EasyAccess2.0 Server: Select Global server

Domain: Enter your domain name

User name: Enter your user account

Password: Enter the password of your user account

“Gear” button: Settings

Settings

Path tab

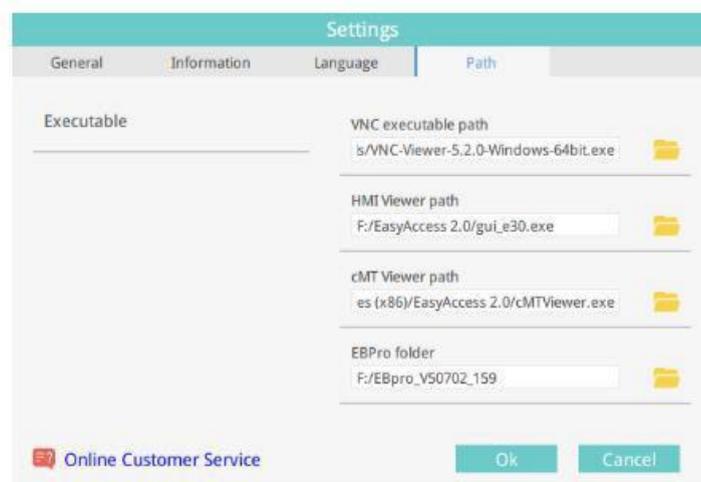
Browse the paths for the essential applications.

VNC executable path -Location of the .exe executable of the VNC viewer. VNC viewer must be installed separately, such as TightVNC and RealVNC.

HMI Viewer path- Location of the GUI (gui_e30.exe), which is used for iE/XE/eMT/mTV series HMI.

cMT Viewer path- Location of the cMT Viewer, which is used for cMT series HMI.

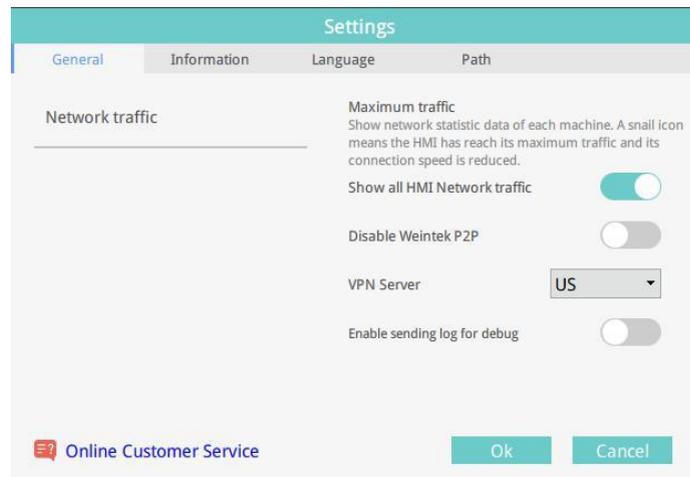
EBPro folder- Location of the EasyBuilder Pro folder.



Note: Please keep GUI updated since 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 the programming environment of the HMI was updated; in this example, find it in the latest version of EasyBuilder Pro.

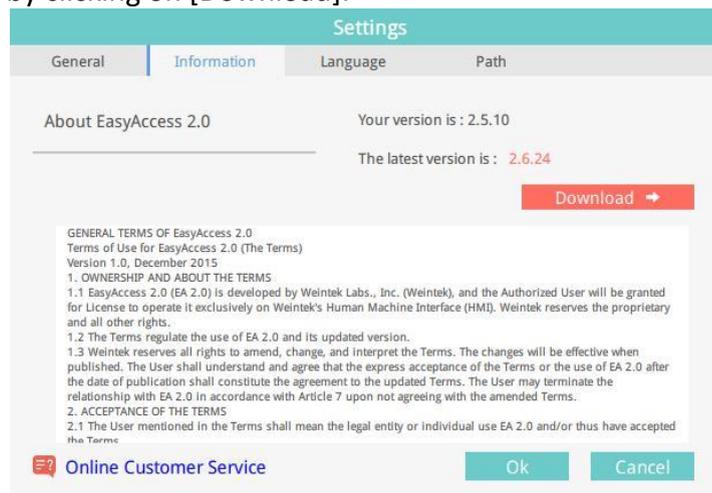
General tab

All of the options on this page would be set by default. You can enable [Show all HMI Network traffic] to know data usage.



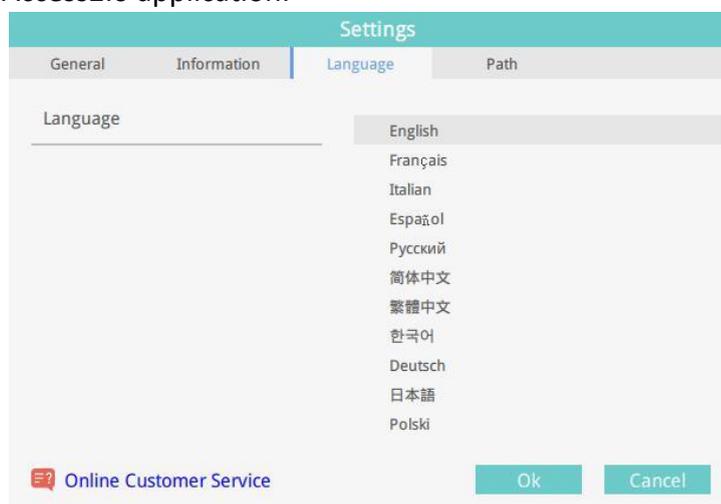
Information tab

It shows the current version of EasyAccess2.0 application. You can download the latest EasyAccess2.0 application by clicking on [Download].



Language tab

Select a language for EasyAccess2.0 application.



Once successfully logged in, the main screen will display HMIs this user is associated with. HMIs that states online state will have a “connect” button and a “gear (setting)” button. An HMI connected by another user will be indicated occupied state and cannot be accessible before the first connection has been terminated.

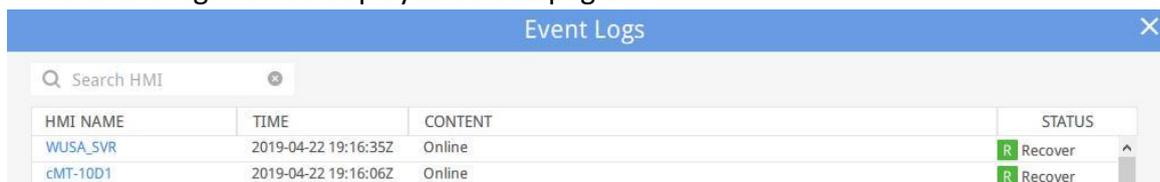


The usage of icons on the Main screen

Icon	Descriptions
	Traffic Usage (data usage)
	HMI search filter
	Tile view/ List view
	Event Logs
	Settings
	Logout of the current user
	Displays connection logs

Event logs

All of the HMIs’ event logs will be displayed on this page.



Connection logs

Clicking on the LOG icon will bring up 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 the logs, you can save these logs by clicking on [Save log] button.

Activity info Save log

ALL VPN Authentication UAC GUI

TYPE	TIME	CONTENT
⊕	2019-04-15 16:57:19 607	17701360 @ 2019-04-15 16:57:19.601001: weintek-p2p: mana recved cmd: 9001
⊕	2019-04-15 16:57:18 620	17701360 @ 2019-04-15 16:57:18.600477: weintek-p2p: mana recved cmd: 9001
⊕	2019-04-15 16:57:18 087	17701360 @ 2019-04-15 16:57:18.024010: VPNService fps: 59
⊕	2019-04-15 16:57:17 607	17701360 @ 2019-04-15 16:57:17.599254: weintek-p2p: mana recved cmd: 9001
⊕	2019-04-15 16:57:16 704	17701360 @ 2019-04-15 16:57:16.598946: weintek-p2p: mana recved cmd: 9001
⊕	2019-04-15 16:57:16 588	17701360 @ 2019-04-15 16:57:16.514155: comm_tun_read fps: 59
⊕	2019-04-15 16:57:15 606	17701360 @ 2019-04-15 16:57:15.581008: weintek-p2p: mana recved cmd: 9001
⊕	2019-04-15 16:57:14 611	17701360 @ 2019-04-15 16:57:14.580428: weintek-p2p: mana recved cmd: 9001
⊕	2019-04-15 16:57:13 607	17701360 @ 2019-04-15 16:57:13.580103: weintek-p2p: mana recved cmd: 9001
		17701360 @ 2019-04-15 16:57:13.570104: weintek-p2p:

HMI States

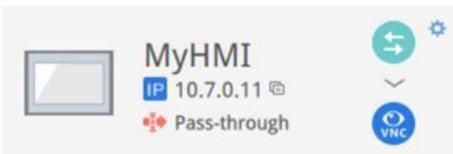
Online (On-line Status)- The HMI which states online continuously sends packages to EasyAccess2.0 server and lets all EasyAccess 2.0 clients know the HMI is ready for connection. There is still no connection between the HM and a client.



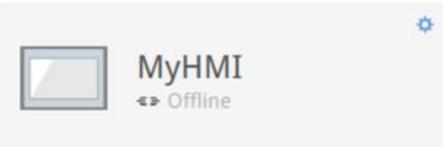
Occupied (On-line Status)- When an EasyAccess 2.0 client connects to the HMI, the HMI is occupied, and no other EasyAccess 2.0 client can connect to it until it is disconnected.



Connected (On-line Status)- The HMI is occupied and accessed by you.



Offline (Off-line Status)- The HMI is not connected to EasyAccess2.0 server.



The usage of icons on HMI

Icon	Descriptions
MyHMI	HMI name
IP 10.7.0.6	The virtual IP address (Public IP). Click to copy the IP address to the clipboard.
Pass-through	Set up pass-through IP address.
↔	Connect to the HMI.
↕	Disconnect from the HMI.
VNC	Access the HMI with VNC viewer.
🖥️	Access the HMI with HMI Viewer. (non cMT models available)
🗣️	Access the HMI with cMT-Viewer (cMT models available)
⚙️	Settings of the HMI
🖥️	HMI information

HMI information

The screenshot shows the 'Info' tab of the HMI interface. At the top, it displays 'WUSA_SVR' with a private IP address of 10.7.159.115 and a 'Pass-through' status. Below this, a list of system details is provided:

- Private IP: 192.168.1.13
- Network traffic: 8.00KB
- Runtime version: 2.6.27
- OS version: cMT-SVR OS build 20160920
- Hardware key: LQCA2JQMBCO3LFW...
- Ping value: 9ms

[Private IP]- IP address of the HMI on the local network
 [Network traffic] - Data usage
 [Runtime version] - The version of Easybuilder Pro
 [OS version] - The OS version of the HMI
 [Hardware key] - HMI hardware key [Ping value] - Response time of a ping

Settings of the HMI

[Events tab]- the event logs of the HMI.

Events		Access setting	Notification setting
TIME	CONTENT		STATUS
2019-04-22 19:16:06Z	Online		R Recover
2019-04-20 00:26:51Z	Offline		R Recover

[Accessing setting] tab- This function allows you to use VNC Viewer, cMT-Viewer, or HMI Viewer each time. To use VNC Viewer, check its box and click OK. The executable path in Settings page must be set in advance. To use cMT-Viewer, check its box and click OK. The executable path in Settings page must be set in advance. (cMT-Viewer is not available for non cMT HMIs)

The screenshot shows the 'Access setting' tab. It contains two options:

- Use VNC viewer:
- Use cMT Viewer:

To use HMI Viewer, check its box and click OK. The executable path in Settings page must be set in advance. (HMI Viewer is not available for cMT HMIs) Also, set whether the project should be uploaded (**Use an existing project file** or **Always upload project**) and history files should be handled or not.

The screenshot shows a dialog box for configuring viewer settings. It includes the following options:

- VNC (VNC is not configured):
- Use HMI viewer:
- Use an existing project file:
- Always upload project:
- Upload history:
- Clear old history:
- History files in USB disk:
- History files in SD card:
- Password:

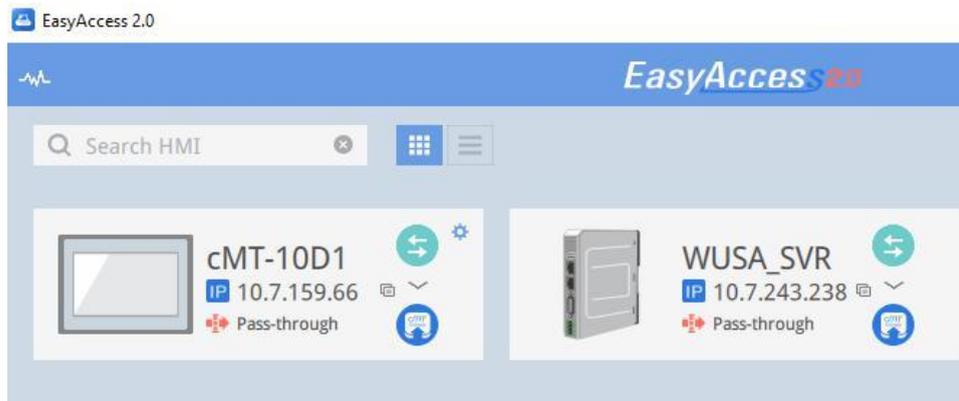
Buttons for 'Ok' and 'Cancel' are located at the bottom.

Notification setting tab- You can 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. For more information, please see **Appendix G - Push Notification**



Connecting to remote HMIs

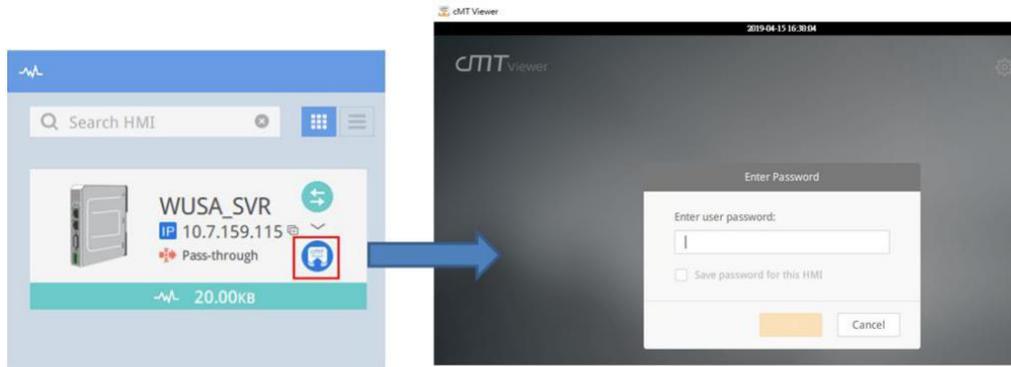
Click on a “Connect” icon. EasyAccess2.0 application will build the connection to the remote HMI. Once connected, the virtual IP address will be shown as below. Having multiple connections at the same time allows you to monitor more than one HMI.



Monitoring & controlling HMI project

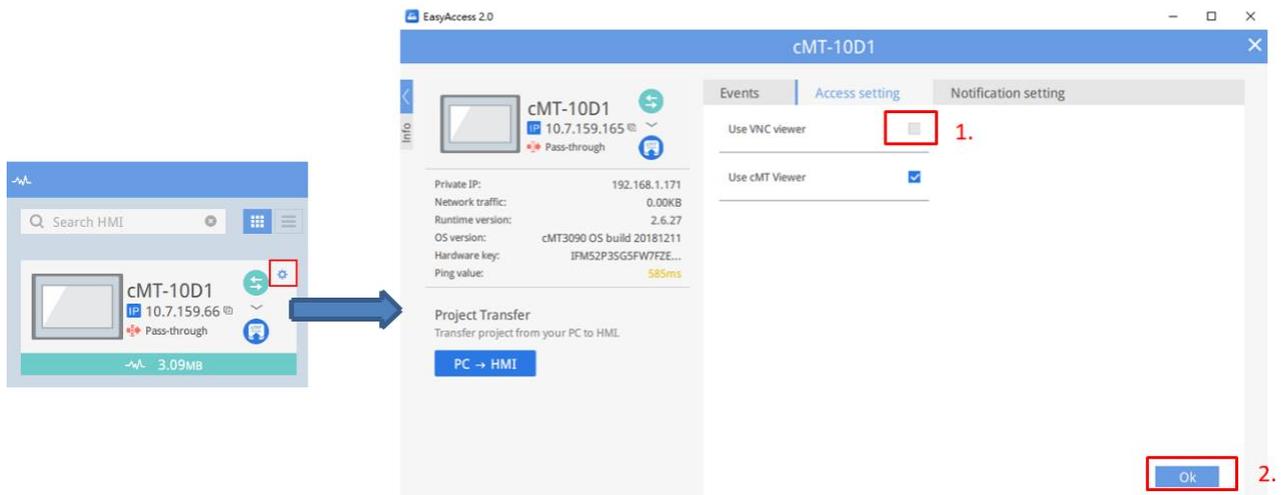
- **Using cMT-Viewer to remote access HMI project**

When connecting to the HMI, click on the cMT-Viewer icon and then enter the password on the popup window.

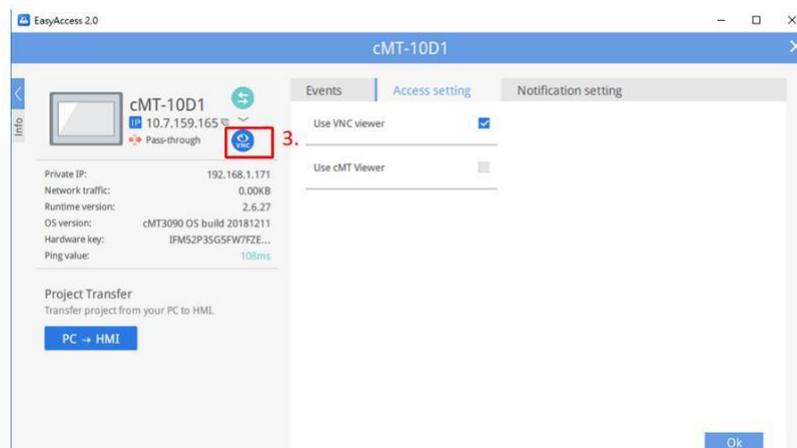


- **Using VNC-Viewer to remote access HMI project**

Go to HMI Settings. On the [Access setting] tab, check [Use VNC Viewer] and click on OK.

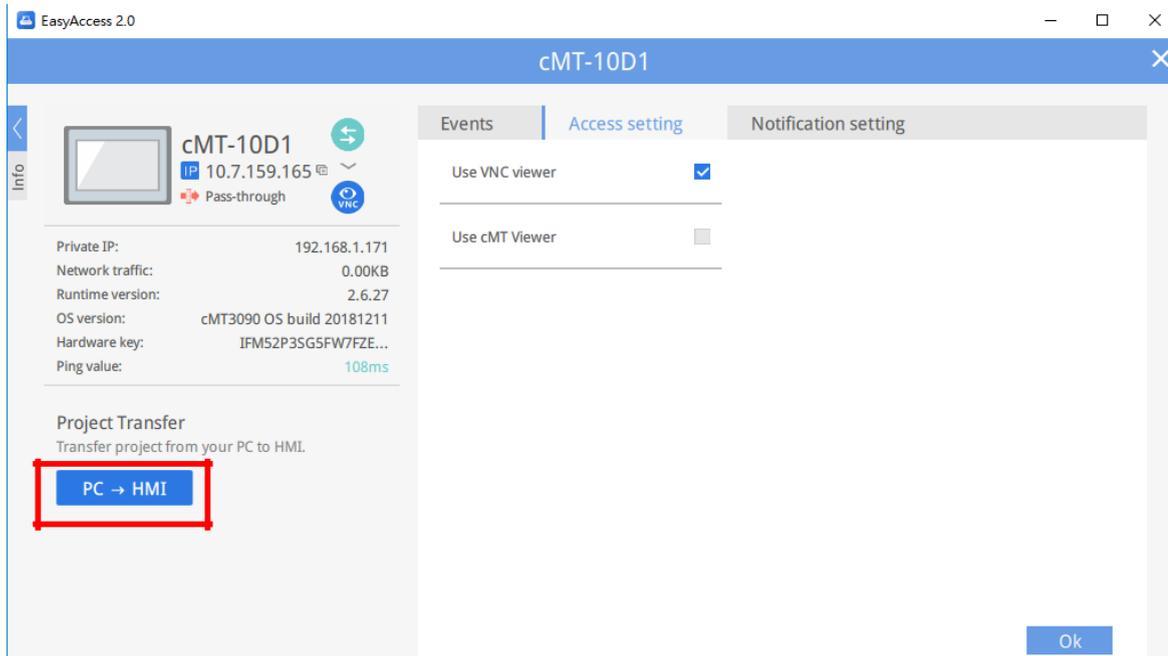


Click on the VNC-Viewer icon to open the VNC client application.

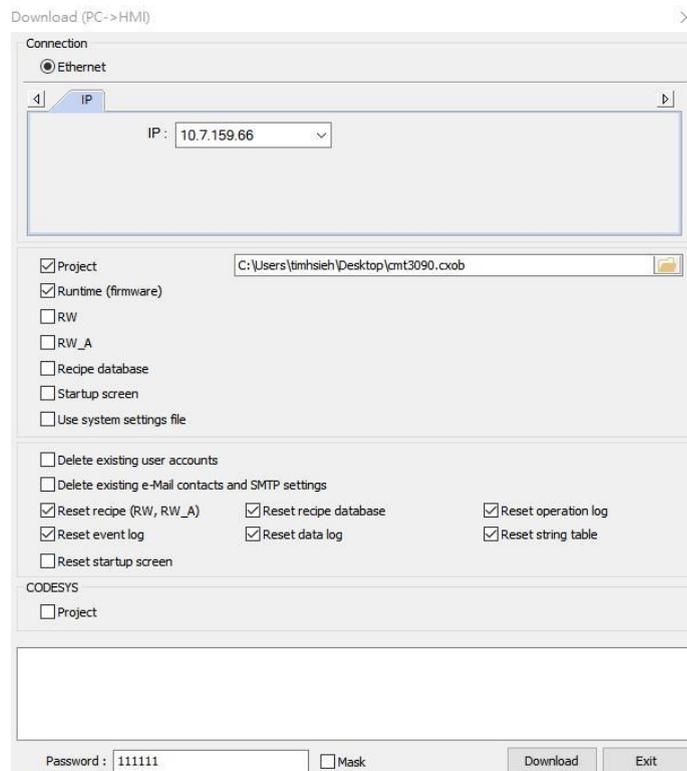


Updating HMI project

When connecting to the HMI, go to HMI Settings. Click on [PC -> HMI] button.

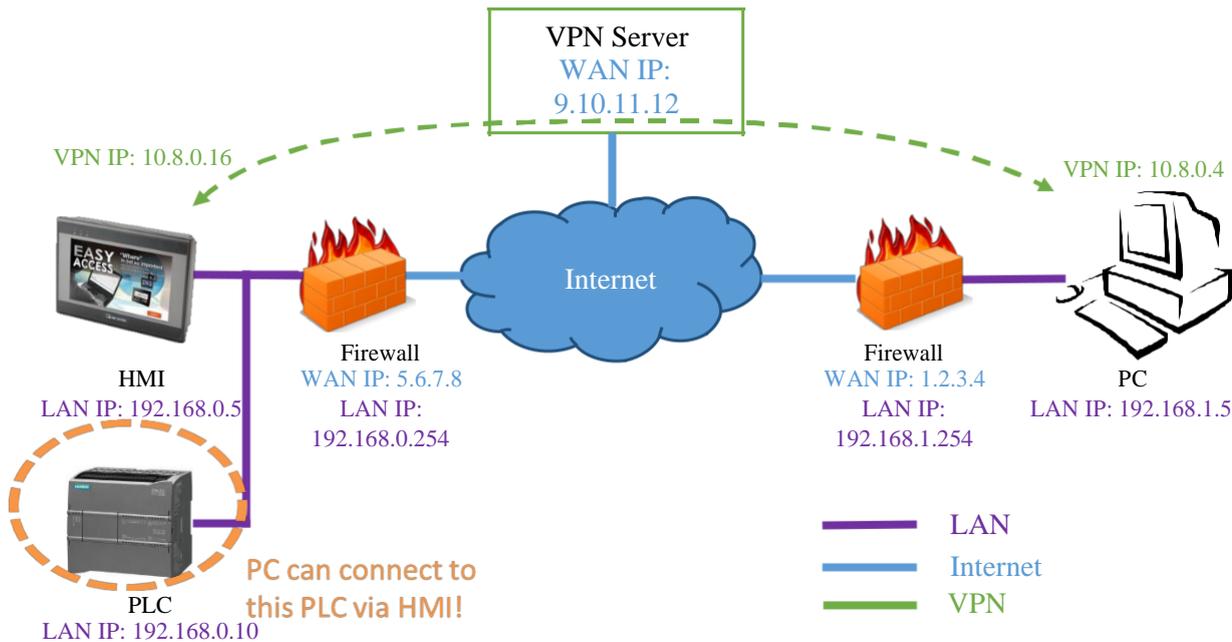


The download dialog will come up. The [IP] is set to the virtual IP address by EasyAccess2.0 application. Browse the project you want to update and click [Download].



10. Ethernet Pass-through

EasyAccess 2.0 makes not only possible direct connection to a Weintek HMI, but also provides pass-through functionality 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.

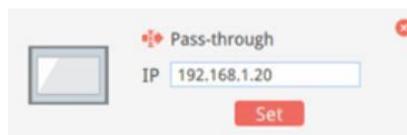


How to set up Ethernet pass-through to PLC

1. In EasyAccess 2.0 application, click on the [Pass-through] icon which appears below the virtual IP address when the connection is in action.



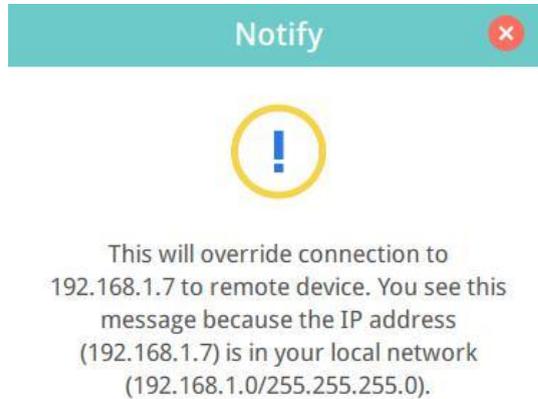
2. Enter the IP address of the PLC. Click [Set].



3. Then launch the PLC software on the PC.



Note: 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.



Multiple Pass Through (available in version 2.7 or greater)

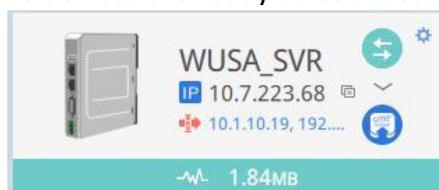
1. In EasyAccess 2.0 application, click on the [Pass-through] icon which appears below the virtual IP address when the connection is in action.



2. Enter the IP address of the target PLC. The number of the addresses is up to 6. After that, click [Set] to confirm and then click “x” button to exit.



The addresses listed below indicate the devices are ready to be accessed.

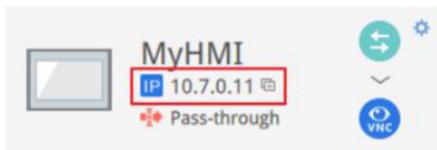


11. Serial Pass-through

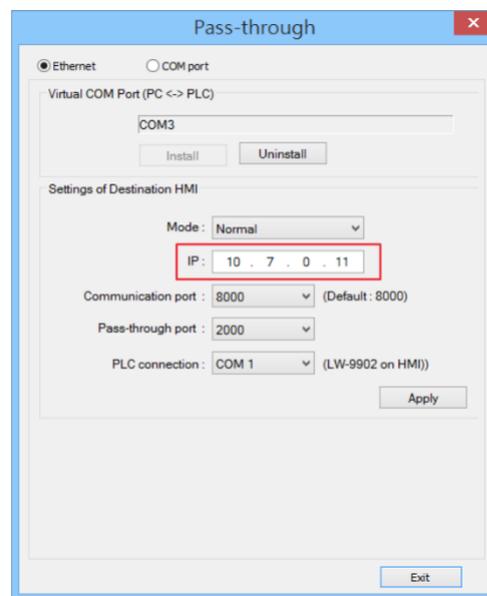
Remote Pass-through is made possible and simple with EasyAccess 2.0. Similar to the traditional way of local pass-through, it is done with a pass-through application in Utility Manager. Merely enter the virtual IP address obtained in EasyAccess 2.0 into the pass-through application, as shown in the following figure. The remaining steps are the same as local pass-through.

How to set up serial pass-through to PLC

1. Launch **Utility Manager** and go to [Analysis & Testing] » [Pass-Through]. Copy the virtual IP address from EasyAccess2.0 application to the Pass-through application. Click [Apply].



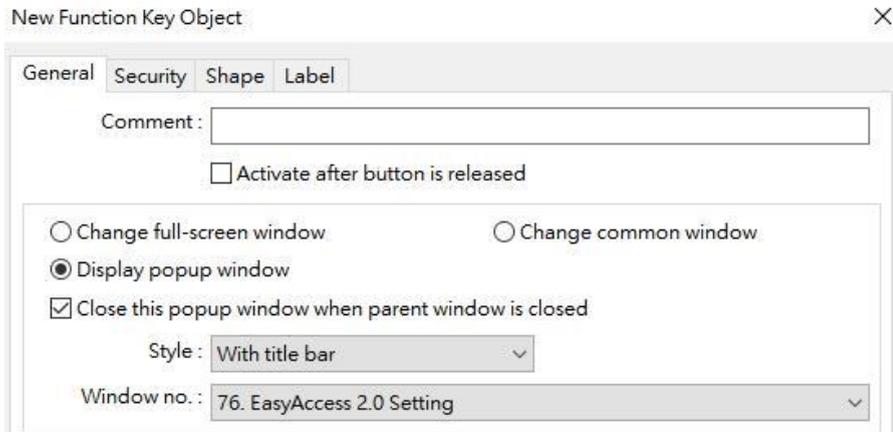
Virtual IP address in EasyAccess2.0 application



Pass-through application in Utility Manager

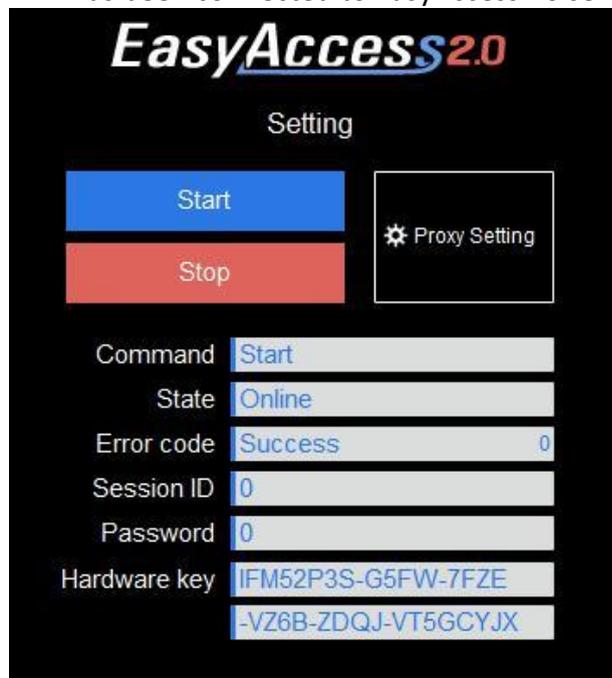
2. Then launch the PLC software on the PC.

In window no.10, add a [Function Key] object. On [General] tab, select [Display popup window] and select window 76. on the [window no.].



Transfer this project to the HMI by going to [Project] on the toolbar » [Download]. After the project is loaded to the HMI, the EasyAccess2.0 setting page will be displayed on the screen. If you use popup window for this page, please click the Function Key you added.

Click on the Start button. If the network setting of the HMI is correct, the “Online” text will be shown on the State box, which indicates the HMI has been connected to EasyAccess2.0 server.



Note: If you are not required to use static IP for the WAN (Wide Area Network) port of the HMI, set the HMI to DHCP mode is recommended.

Appendix B - Reference

System Restrictions

Restriction	Descriptions
Data Rate and Usage Limit	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.
Number of Domains an HMI can be registered in	Only 1 domain
Number of users an HMI can be connected by at a time	Only 1 user. "Occupied" text will be shown in EasyAccess2.0.
Number of HMI a user can connect to at a time	10 on PC application
Service Port	HTTPS port (443)
Ethernet-Ethernet Pass-through	1 IP address

System Registers

System Tag	Function	Descriptions
LW-10820 (16bit)	Connect/Disconnect to EasyAccess 2.0 server	0: Disconnect 1: Connect
LW-10828 (16bit)	EasyAccess 2.0 Online Status	0: Disable 1: Offline 2: Online 3: Occupied 4: Download client update
LW-10829 (16bit)	Error code provides information about error status while the HMI is going online on EasyAccess 2.0.	0: Success. (Connection successful) 1: Not activated. (EasyAccess 2.0 function is not activated on the HMI) 2: Log-in timeout (Outbound connection is broken or the server is down) 3: Certificate expired (License Key has expired. Please check with distributor.) 4: HMI client not ready (Open and close client too frequently) 5: HMI client will update (Update is downloaded and ready) 6: HMI client does not exist (Client program does not exist in HMI memory)
LW-10821 (5words, ASCII)	Session ID. This is used to add an HMI to a Domain.	
LW-10826 (2words, ASCII)	Session Password. This is used to add an HMI to a Domain.	
LW-11210 (20words)	Hardware Key	
LW-11296 (16bit)	Location of EasyAccess 2.0 server	0: Global 1: China

Troubleshooting

If HMI cannot connect to the EasyAccess2.0 server, please check error code shown in "EasyAccess 2.0 Setting" page or System tag LW-10829 (16bit).



- Error code 1 (Not activated!): Please check if your HMI is already activated or not.
- Error code 2 (Log-in timeout!): Your HMI cannot connect to the server. Please check your network settings (Ex: firewall).
- Error code 201 (NetworkGatewayError): Please check your network settings. The Gateway setting might be wrong.
- Error code 202 (NetworkDNSError): Please check your network setting. The DNS setting might be wrong.
- Error code 203 (ProxyError): Please check your proxy setting if you don't use proxy, please keep the Proxy setting "Disable."



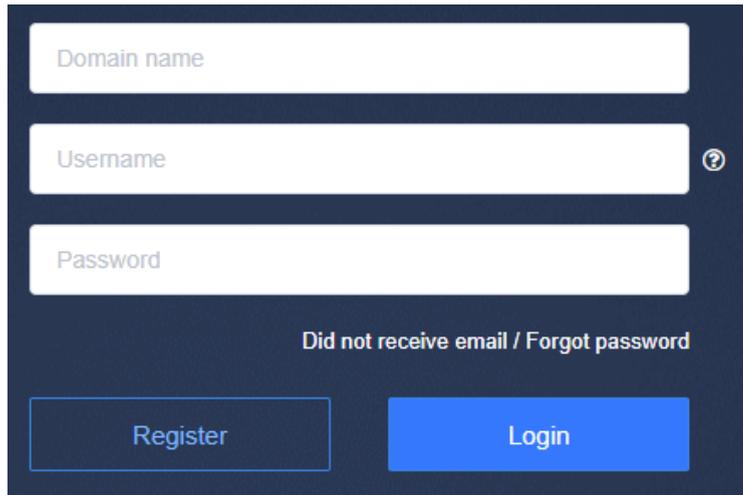
- Error code 204 (PingAuthServerFail): Your HMI cannot connect to the server. Please check your network settings (Ex: firewall).
- Error code 205 (SSLCertificateError): Please check if "Time/Date" setting in your HMI system setting is calibrated or not.

Appendix C - Free Trial

Free Trial is an option which allows you to enable EasyAccess2.0 feature on licenses required models 30 days for free.

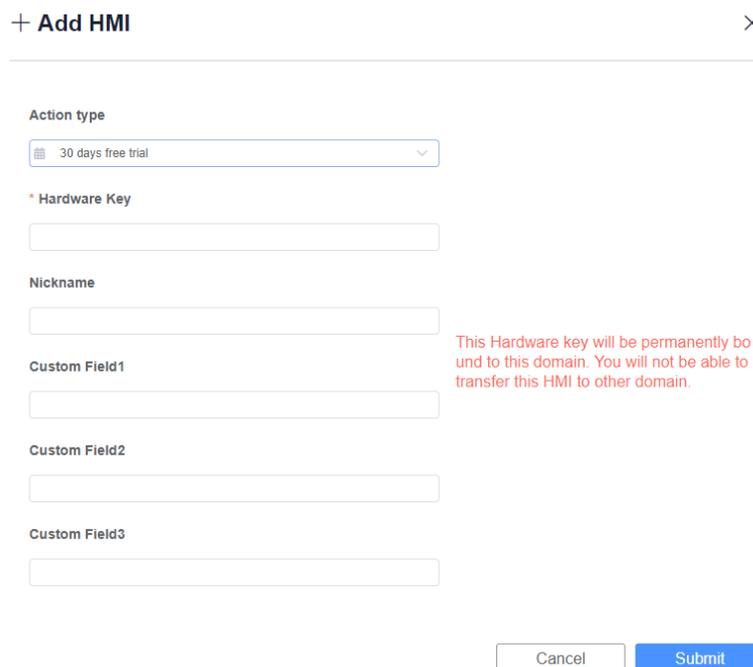
How to use free trial

1. Go to <https://www.weincloud.net/account/login?from=easyaccess&redirect=%2Ftopup-card>
2. Log in to your domain with the name of your Domain and the admin password.



The image shows a login form with a dark blue background. It contains three input fields: 'Domain name', 'Username' (with a help icon), and 'Password'. Below the fields is a link that says 'Did not receive email / Forgot password'. At the bottom are two buttons: 'Register' and 'Login'.

3. Click on [Add HMI]. Select [30 days free trial] within the “Action type”. Enter the hardware key of the HMI. Click [Submit] to complete.



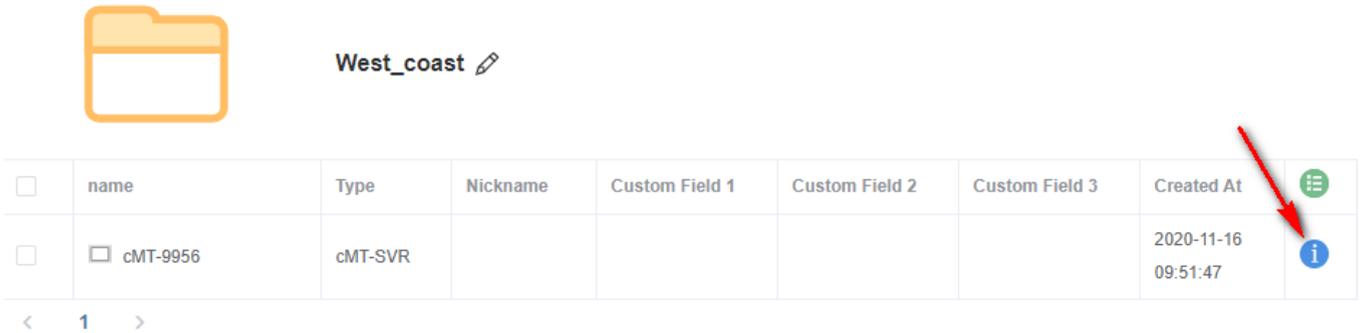
The image shows a modal window titled '+ Add HMI' with a close button (X). It contains the following fields and options:

- Action type:** A dropdown menu with '30 days free trial' selected.
- * Hardware Key:** A required text input field.
- Nickname:** A text input field.
- Custom Field1:** A text input field.
- Custom Field2:** A text input field.
- Custom Field3:** A text input field.

At the bottom right, there is a red warning message: 'This Hardware key will be permanently bound to this domain. You will not be able to transfer this HMI to other domain.' Below the message are two buttons: 'Cancel' and 'Submit'.

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 card. Then you are allowed to delete this HMI from the domain and transfer to another domain.

To do this, go to the [Device Management] » [HMIs] tab » info icon



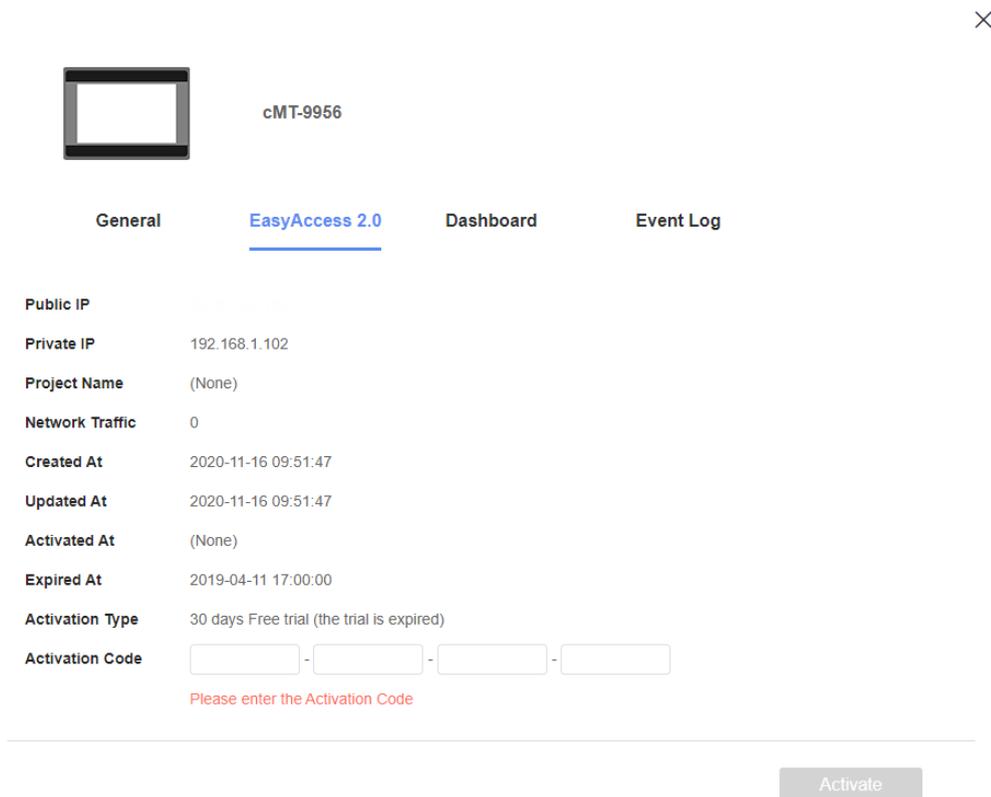
West_coast 

<input type="checkbox"/>	name	Type	Nickname	Custom Field 1	Custom Field 2	Custom Field 3	Created At	
<input type="checkbox"/>	 cMT-9956	cMT-SVR					2020-11-16 09:51:47	

< 1 >

On the [EasyAccess2.0] tab, enter the activation code and click on the [Activate] button.

×



 cMT-9956

General EasyAccess 2.0 Dashboard Event Log

Public IP

Private IP 192.168.1.102

Project Name (None)

Network Traffic 0

Created At 2020-11-16 09:51:47

Updated At 2020-11-16 09:51:47

Activated At (None)

Expired At 2019-04-11 17:00:00

Activation Type 30 days Free trial (the trial is expired)

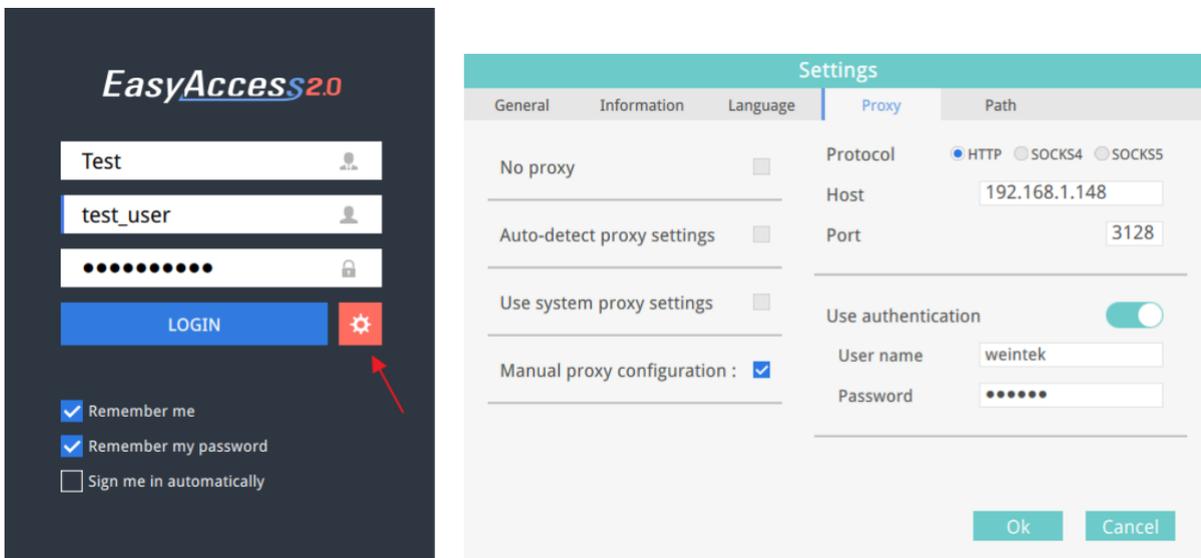
Activation Code - - -

Please enter the Activation Code

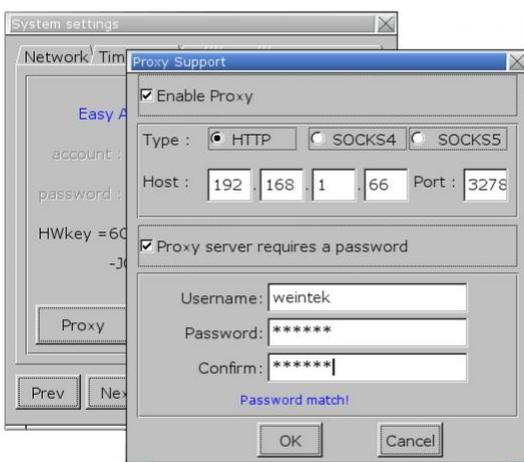
Appendix D- Proxy Server

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. Establishing connection with EasyAccess 2.0 through proxy requires additional settings in EasyAccess 2.0 client application or in the HMI.

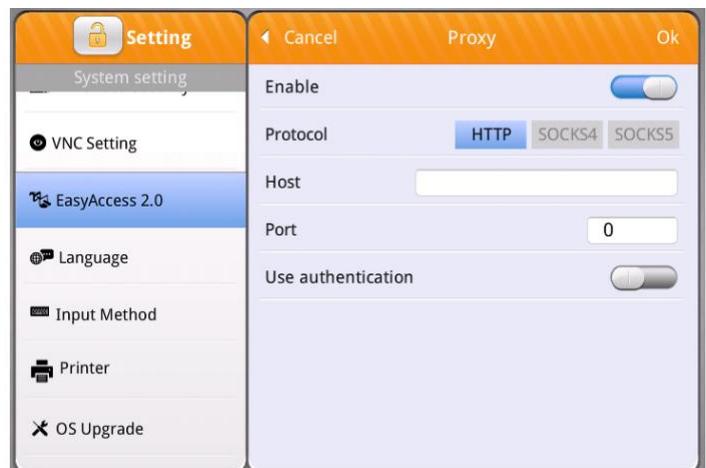
Proxy settings at EasyAccess 2.0 client side (PC) and HMI side are similar. On PC, the proxy setting page can be called from the Setting button of the login screen. On HMI, the proxy setting can be found in the [EasyAccess 2.0] tab of System settings. Enter the proxy type, host address, port number, and login credentials obtained from the network administrator.



Proxy Settings in EasyAccess2.0 application



*Proxy Settings on the HMI screen
(Non cMT HMI)*



*Proxy Settings on the HMI screen
(cMT HMI)*

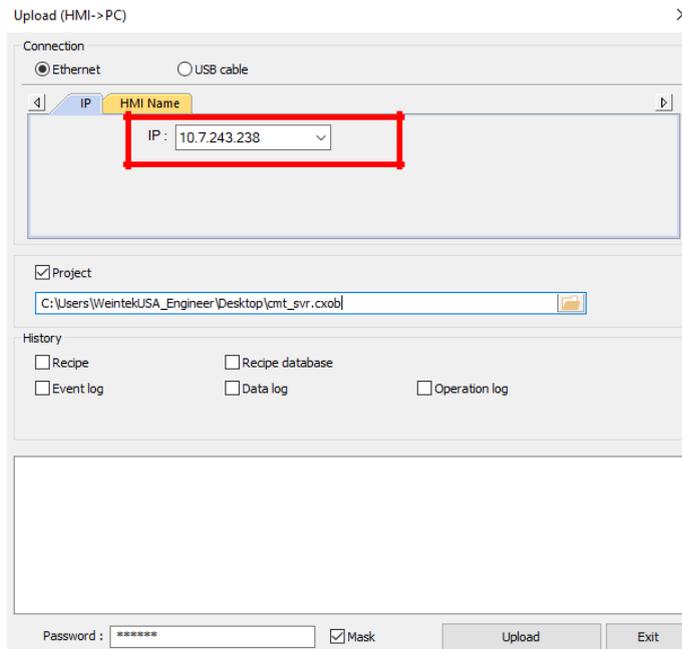
System tags for EasyAccess2.0 proxy settings

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

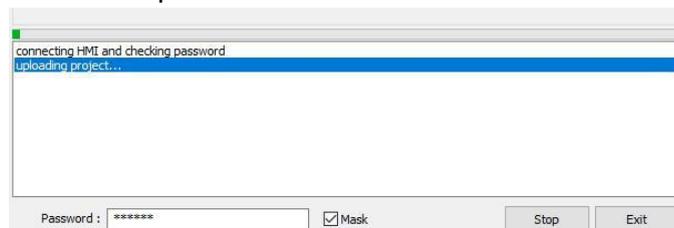
Appendix E - Project Backup

This Upload application is used to retrieve a compiled project file (*.cxob or *.exob) stored in HMIs. Users can remotely retrieve a project with EasyAccess2.0.

1. Launch Upload application. (Select xxx Series in **Utility Manager** » [Publish] tab » [Upload])
2. Select Ethernet connection.
3. To upload the project file, select the Project checkbox and click on the “Folder” button to the right of the Project checkbox. Navigate to where the *.cxob file or *.exob will be saved. Specify the name of the project file and add the file extension .cxob or *.exob depending on your HMI model.
4. Copy the virtual IP address of the HMI from EasyAccess2.0 application to the Upload application.
5. Enter the password to the Password box. The default password is 111111.
6. Click on Upload button to begin.



7. The process will take minutes to complete.



Appendix F - FTP Server

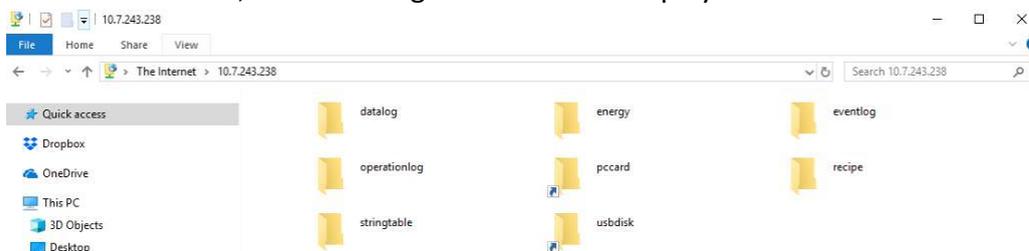
FTP (File Transfer Protocol) Server in Weintek HMIs allows users to access data log files, event log files, operation log files, Recipe files (**RW**, **RW_A**), Recipe database files stored in the HMI internal flash memory or on an USB drive, as well as SD card. Users can remotely backup these files with EasyAccess2.0.

1. Copy the virtual IP address of the HMI from EasyAccess2.0 application.
2. On the PC, open the file explorer and enter the following address:
ftp://uploadhis: [FTP password]@[the virtual IP address of the HMI]

For instance, enter ftp://uploadhis:111111@10.7.243.238. 111111 is the default FTP password. 10.7.243.238 is the virtual IP address of the HMI.



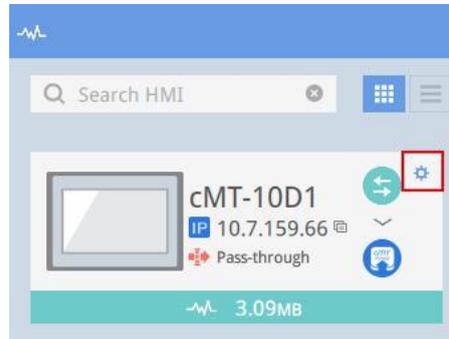
3. Press “Enter” on your keyboard.
4. When the password is correct, the following folders will be displayed as shown.



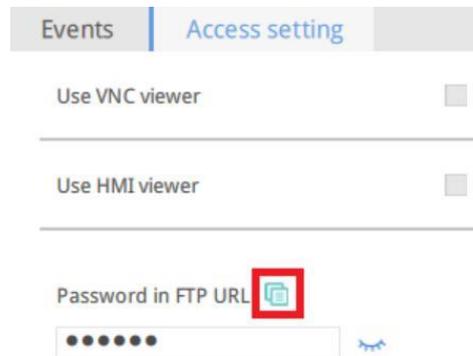
- Steps to backup data log files
 1. Click “datalog” folder to view the files.
 2. Copy and paste the files to the PC.
- Steps to backup event log files
 1. Click “eventlog” folder to view the files.
 2. Copy and paste the files to the PC.

FTP URL with Password Shortcut (available in version 2.7 or greater)

1. Click on the “gear” button and go to the [Access setting] tab.



2. Enter the FTP password into the input box. Then click the copy button next to [Password in FTP URL].



3. On the PC, open the file explorer and paste the FTP URL.



Appendix G - Push Notification

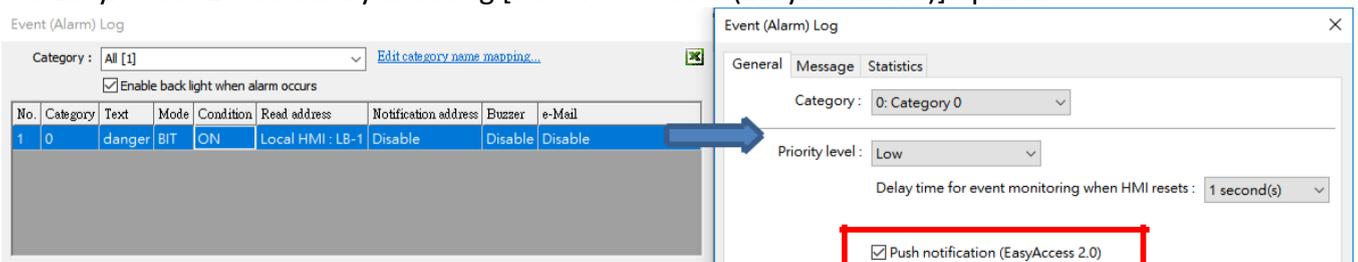
With push notification, HMI sends selected alarm messages to the EasyAccess 2.0 server, which can be viewed in the EasyAccess 2.0 application. This feature requires configurations in both HMI project in EasyBuilder Pro and EasyAccess 2.0 application.

Configuration in EasyBuilder Pro

1. Go to [Data/History] tab » Even(Alarm) Log.

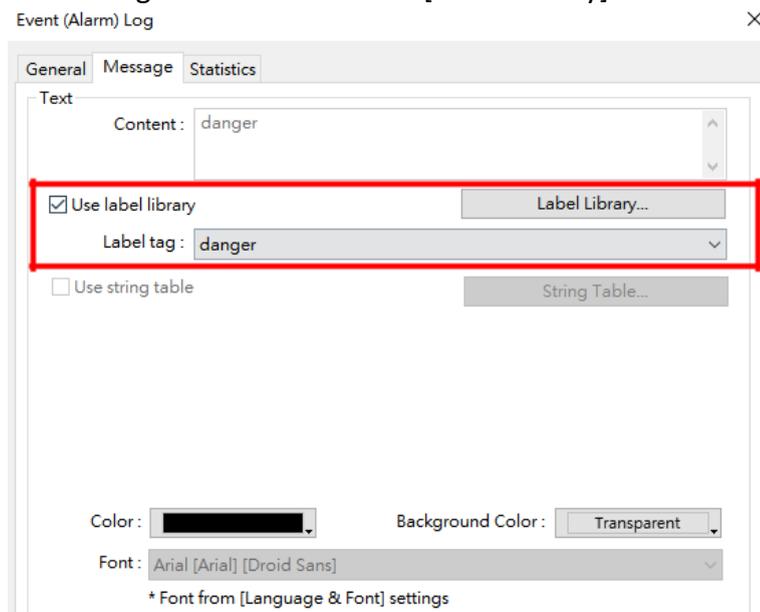


2. The Event Log lists the events you configured. For each event, you can determine if it should be sent to the EasyAccess 2.0 server by checking [Push notification(EasyAccess2.0)] option.

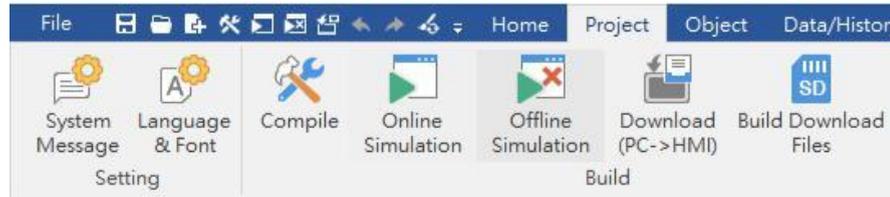


Selection of multiple languages

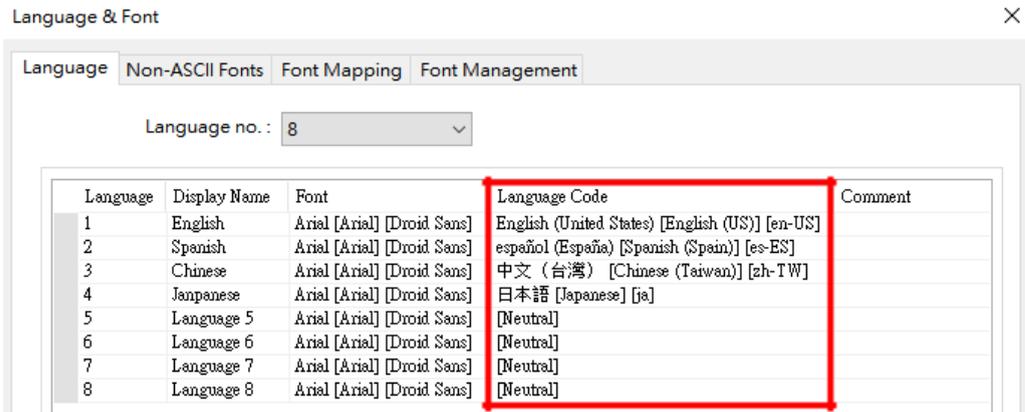
3. If multiple languages for events are required, go to the [Message] tab. Check [Use label library] and then select a label tag. The label tags must be defined in [Label Library] for the selection.



4. To select appropriate language codes for multiple languages, go to [Project] tab » [Language].



5. On [Language] tab, select language codes one by one.



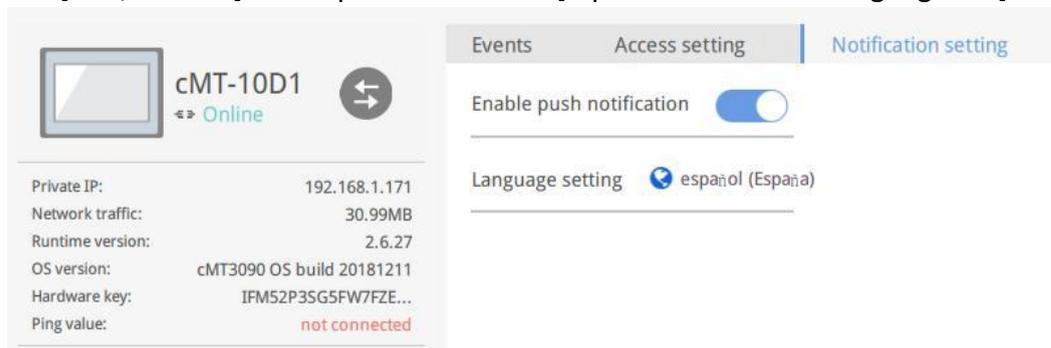
6. Transfer the project to your HMI.

Setup in EasyAccess2.0

1. Log in the EasyAccess2.0 application with your user account. Click on the setting icon of the HMI.



2. On [Notification] tab, enable [Enable push notification] option and select a language on [Language setting].



How push notification works

After completing the above, the EasyAccess2.0 server can receive the alarm messages sent from the HMI. Once alarms are triggered, there will be a small indicator which shows the number of alarms.



Then you can click on the HMI icon to check the alarm messages with the language you selected.

Events		Access setting	Notification setting
TIME	CONTENT	STATUS	
2019-04-24 11:27:03	peligro	T	Trigger
2019-04-24 11:26:56	peligro	R	Recover
2019-04-24 11:26:51	peligro	T	Trigger
2019-04-24 11:26:48	peligro	R	Recover

Note: The status of HMI have to be on-line status (either Online, Connected, or Occupied), so the EasyAccess2.0 server is able to receive the alarms from the HMI.

Appendix H - Activity Report

The domain administrator can email a report that contains the activity information.

Activity Report (2019-07-09 to 2019-07-10)

Dear EasyAccess 2.0 Customer,

Domain () related activity reports are shown below:

HMI Activities

Name (HW Key)	Online	Offline
cMT-10D1 (IFMS...)	2019-07-09 17:13:55	2019-07-09 17:13:59
cMT-10D1 (IFMS...)	2019-07-09 17:14:28	2019-07-09 19:15:07
cMT-10D1 (IFMS...)	2019-07-09 19:15:28	2019-07-09 19:22:10
cMT-10D1 (IFMS...)	2019-07-09 19:22:32	2019-07-09 19:27:30

VPN Activities

Name (HW Key)	User	Result	Begin	End
cMT-10D1 (IFMS...)	CLIENT	Success	2019-07-09 17:15:49	2019-07-09 17:16:39

Domain User Online Activities

User	From (Platform)	Online	Offline
CLIENT	WIN10 (windows)	2019-07-09 17:15:40	2019-07-09 17:16:39
CLIENT	WIN10 (windows)	2019-07-09 23:23:14	2019-07-09 23:26:18

Best regards,

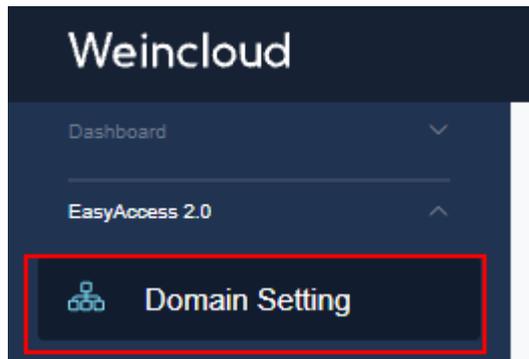
EasyAccess 2.0 Team

How to send activity reports.

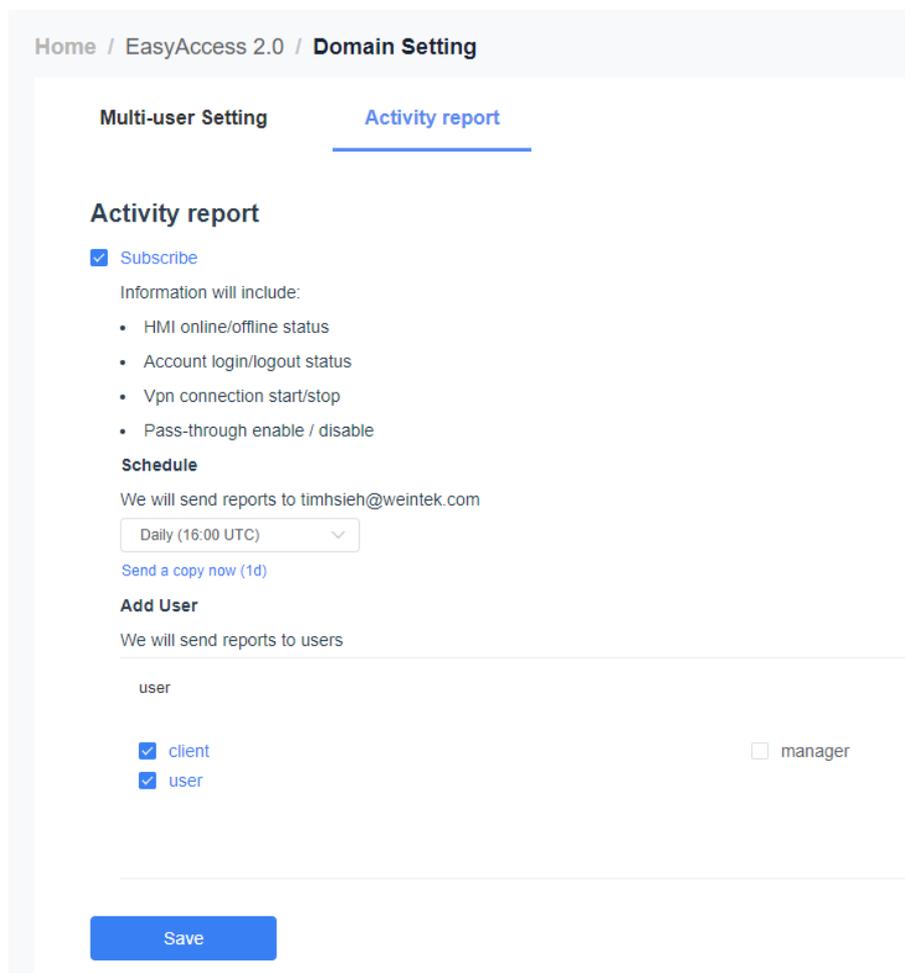
1. Go to <https://www.weincloud.net/account/login?from=easyaccess&redirect=%2Ftopup-card>
2. Log in to your domain with the name of your Domain and the admin password.

The image shows a login form with three input fields: 'Domain name', 'Username', and 'Password'. Below the fields is a link that says 'Did not receive email / Forgot password'. At the bottom, there are two buttons: 'Register' and 'Login'.

3. Click [Domain Setting] on the navigation pane.



4. On the [Activity report] tab, check [subscribe] and make a schedule. The available options are Daily, weekly, and monthly. Click [Save] to confirm. If you just need a one-day report, click on [Send a copy now(1d)].



Reference Link:

Weintek Labs website: <http://www.weintek.com>

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6219 NE 181s Street STE 120
Kenmore, WA 98028
425-488-1100