# Table of Contents

1. Introduction ................................................................................................................. 3

2. Concept ......................................................................................................................... 5

3. Setup Checklist ............................................................................................................. 7

4. Domain Creation .......................................................................................................... 8

5. Activation ...................................................................................................................... 9

6. Adding Pre-Licensed Models to the Domain ............................................................... 11

7. Managing the Domain ................................................................................................. 12

8. Installing EasyAccess2.0 Application on PC .............................................................. 22

9. Using EasyAccess2.0 Application on PC .................................................................. 25

10. Ethernet Pass-Through ............................................................................................. 34

11. Serial Pass-Through ................................................................................................. 36

Appendix A - Connecting the HMI to EasyAccess2.0 ..................................................... 37

Appendix B - Reference ................................................................................................. 39

Appendix C - Free Trial ................................................................................................. 42

Appendix D - Proxy Server ............................................................................................ 44

Appendix E - Project Backup ......................................................................................... 46

Appendix F - FTP Server ............................................................................................... 47

Appendix G - Push Notification ..................................................................................... 49

Appendix H - Activity Report.......................................................................................... 52
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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Pre-licensed</th>
<th>Activation required</th>
</tr>
</thead>
<tbody>
<tr>
<td>cMT Series</td>
<td></td>
<td></td>
</tr>
<tr>
<td>cMT-SVR-100</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>cMT-SVR-102</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>cMT-SVR-200</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>cMT-SVR-202</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>cMT-FHD</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>cMT-3071</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>cMT-3072</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>cMT-3090</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>cMT-3151</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>cMT-Gxx (IIoT Gateway)</td>
<td></td>
<td>V</td>
</tr>
</tbody>
</table>

iE Series
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MT8050iE</td>
<td>V</td>
</tr>
<tr>
<td>MT8053iE</td>
<td>V</td>
</tr>
<tr>
<td>MT8070iE</td>
<td>V</td>
</tr>
<tr>
<td>MT8071iE</td>
<td>V</td>
</tr>
<tr>
<td>MT8073iE</td>
<td>V</td>
</tr>
<tr>
<td>MT8100iE</td>
<td>V</td>
</tr>
<tr>
<td>MT8101iE</td>
<td>V</td>
</tr>
<tr>
<td>MT8102iE</td>
<td>V</td>
</tr>
<tr>
<td>MT8103iE</td>
<td>V</td>
</tr>
<tr>
<td>XE Series</td>
<td></td>
</tr>
<tr>
<td>MT8090XE</td>
<td>V</td>
</tr>
<tr>
<td>MT8092XE</td>
<td>V</td>
</tr>
<tr>
<td>MT8121XE</td>
<td>V</td>
</tr>
<tr>
<td>MT8150XE</td>
<td>V</td>
</tr>
<tr>
<td>mTV Series</td>
<td></td>
</tr>
<tr>
<td>mTV</td>
<td>V</td>
</tr>
<tr>
<td>eMT Series</td>
<td></td>
</tr>
<tr>
<td>eMT3070B</td>
<td>V</td>
</tr>
<tr>
<td>eMT3105P</td>
<td>V</td>
</tr>
<tr>
<td>eMT3120A</td>
<td>V</td>
</tr>
<tr>
<td>eMT3150A</td>
<td>V</td>
</tr>
</tbody>
</table>

Note: 1. For other HMI models which are not listed above, please refer to the HMI brochure.
2. iP Series HMIs doesn’t support EasyAccess2.0 feature.

**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.

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

![EasyAccess 2.0 Network Overview](image)

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](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**

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

**Setup checklist for User**

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

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://account.ihmi.net/domain/ to create your domain. Click on [Create Domain account].

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://account.ihmi.net/domain/. Click on [Domain].

2. Log in to your domain with the name of your Domain and the admin password.

3. Click on the [Add HMI] at the upper-right corner. Select [Using activation card] within Action type. Fill out Hardware key as well as Activation code and click [Assign].

   **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 know 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 code you purchased.

Once it succeeds, your HMI will be automatically added to this domain.
Note: If you delete the HMI from this domain by [Transfer HMI] action 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 do the steps on Appendix A - Connecting the HMI to EasyAccess2.0.

1. Go to https://account.ihmi.net/domain/. Click on [Domain].

2. Log in to your domain with the name of your Domain and the admin password.

3. Click on the [Add HMI] at the upper-right corner. Select [Add by session id/password] within Action type. Fill out the Session ID and Password of the HMI. The Session ID and Password are displayed on the HMI screen. Click [Assign] to complete.

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

Go to https://account.ihmi.net/domain/. Click on [Domain].

Log in to your domain with the name of your Domain and the admin password.

The toolbar on the top of the user interface is displayed as shown. There are three tabs, **User**, **Devices**, and **Top-up Card**.

The admin icon at the top-right corner shows the name of the administrator. Click this icon to change the admin password if needed.
User tab

The User list displays user information in the domain. When you check on the box near a user, HMIs and HMI groups which are associated with this user will be shown on [HMI] column. The administrator can know HMI information, such as public IP, private IP, HMI Type, and data usage, by clicking the two columns on the right. In this page, the administrator can manage users by the following actions: Add User, Edit User, Delete User, and Copy User. (Edit User, Delete User, and Copy User are available when checking on the box near a user.)

Add User- A new user can be created by clicking on [Add User] button. Specify a user name on [User id] box and enter this user’s email address on [Personal email] box. A confirmation email with essential information will be sent to this email address. A new user must activate the account by clicking on the confirmation link.
A default password comes in the mail the user receives. The password can be changed by the user. To do that, go to the EasyAccess2.0 homepage https://account.ihmi.net/domain/ and select [User]. Follow the guidance on the screen to change the user password.

**Edit User** - This action can assign HMIs or HMI groups to a user.

- **[HMI/HMI Group] tab » HMI**
  Select HMIs you want the selected user to remote access. Click on [Save] to confirm.

- **[HMI/HMI Group] tab » Group**
  Select HMI groups you want the selected user to remote access. Click on [Save] to confirm.

- **[Account Setting] tab**
  View information about this user account, and edit description and email information.
**Delete User** - This action can remove the selected users from the domain. Check on the boxes near users and click on the [Delete user].

**Copy user** - This action can create a new user assigned to the same HMI/HMI Group. For instance, there are two people, Peter and Nina. Peter already has a user account and can access HMI A and HMI Group I. The administrator can use this action to create a new account and assign HMI A and HMI Group I to Nina.

Note: A user whose name has an exclamation mark alongside indicates that the user is not assigned to any HMI.

**Device tab**

**Device tab » HMI List**

The **HMI List** shows all HMIs registered in this domain. The HMI type can be hidden/shown by clicking on the first column from the left. Other columns can be set to show the following information: private IP, public IP, activation date, or Hardware key, data usage, and custom field for comments.
In this page, the administrator can manage HMIs by the following actions: Add HMI, Edit HMI, and Transfer HMI. (Edit HMI and Transfer HMI are available when checking on the box near an HMI.)

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.

Edit HMI- This action can edit the selected HMI.

- **User/HMI Group tab » User**
  Assign users to the selected HMI. Click on [Save] to confirm.

- **User/HMI Group tab » HMI Group**
  Add/Remove the selected HMI from the HMI groups.

- **Activation Information**
  View Hardware key and edit other information about this HMI.
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](image)

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 (WUSA SERVER) to another domain?

Device tab » HMI Group

The HMI Group lists all of the groups created in this domain. In this page, the administrator can manage the HMI group by the following actions: Add Group, Edit Group, and Delete Group. (Edit Group and Delete Group are available when checking on the box near a group.)

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

Edit Group- This action can edit the selected HMI group

- **HMI/User tab » HMI**
  
  Add/Remove HMI from the selected group. Click on [Save] to confirm.

- **HMI/User tab » User**
  
  Assign the user to the selected group. Click on [Save] to confirm.

- **General Setting**
  
  View information about this HMI group and change the group name.

Delete Group- This action can delete the selected group.
Device tab » HMI Folder View

The HMI Folder View allows you to create folders to categorize HMIs.

For example, to categorize HMIs by territories, do the following steps.

1. Click on [Add Folder].

2. Give a name to the folder and then click [Save] to confirm.

The folder is created as below.
3. Move HMIs by clicking on [Move]. Multiple selection is allowed.

4. Choose the destination. In this case, navigate to the **West_coast** folder. Click [Move Here].

Now the HMI is within the **West_coast** folder.
On EasyAccess2.0 application (client)

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

You can make a folder within another folder.
**Top-up Card tab**

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.

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

HMIs and users in the domain will share the top-up data.
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.

![Image of installation process]

8. Click [Finish] to close the window.

![Image of finish button]

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

<table>
<thead>
<tr>
<th>File Name</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>cMT Viewer</td>
<td>The PC application for accessing a cMT HMI.</td>
</tr>
<tr>
<td>EasyAccess 2.0</td>
<td>The main application used to establish a remote</td>
</tr>
<tr>
<td></td>
<td>connection to an HMI.</td>
</tr>
<tr>
<td>gui_30</td>
<td>An essential component when using HMI Viewer</td>
</tr>
<tr>
<td></td>
<td>to monitor a remote HMI.</td>
</tr>
<tr>
<td>PC Activator</td>
<td>The application used to activate EasyAccess 2.0</td>
</tr>
<tr>
<td></td>
<td>for HMIs on the local network.</td>
</tr>
</tbody>
</table>
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 case, 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

<table>
<thead>
<tr>
<th>Icon</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Traffic Usage (data usage)</td>
</tr>
<tr>
<td></td>
<td>HMI search filter</td>
</tr>
<tr>
<td></td>
<td>Tile view/ List view</td>
</tr>
<tr>
<td></td>
<td>Event Logs</td>
</tr>
<tr>
<td></td>
<td>Settings</td>
</tr>
<tr>
<td></td>
<td>Logout of the current user</td>
</tr>
<tr>
<td></td>
<td>Displays connection logs</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>TYPE</th>
<th>TIME</th>
<th>CONTENT</th>
</tr>
</thead>
</table>
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

<table>
<thead>
<tr>
<th>Icon</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="MyHMI" /></td>
<td>HMI name</td>
</tr>
<tr>
<td><img src="image2" alt="IP" /></td>
<td>The virtual IP address (Public IP). Click to copy the IP address to the clipboard.</td>
</tr>
<tr>
<td><img src="image3" alt="Pass-through" /></td>
<td>Set up pass-through IP address.</td>
</tr>
<tr>
<td><img src="image4" alt="Connect" /></td>
<td>Connect to the HMI.</td>
</tr>
<tr>
<td><img src="image5" alt="Disconnect" /></td>
<td>Disconnect from the HMI.</td>
</tr>
<tr>
<td><img src="image6" alt="Access VNC" /></td>
<td>Access the HMI with VNC viewer.</td>
</tr>
<tr>
<td><img src="image7" alt="Access HMI Viewer" /></td>
<td>Access the HMI with HMI Viewer. (non cMT models available)</td>
</tr>
<tr>
<td><img src="image8" alt="Access cMT Viewer" /></td>
<td>Access the HMI with cMT-Viewer (cMT models available)</td>
</tr>
<tr>
<td><img src="image9" alt="Settings" /></td>
<td>Settings of the HMI</td>
</tr>
<tr>
<td><img src="image10" alt="Info" /></td>
<td>HMI information</td>
</tr>
</tbody>
</table>
HMI information

[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.

[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)

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.
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.

  ![cMT-Viewer icon](image1.png)

- **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.

  ![VNC-Viewer settings](image2.png)

  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 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.
Appendix A - Connecting the HMI to EasyAccess2.0

Selecting EasyAccess2.0 Server

In EasyBuilder Pro, create a project which uses a template. Go to [Home] tab on the toolbar» [System Parameter Settings].

On the [Remote] tab, there are two available options: Global and China. The location of the server is set to Global by default. Since the domain you created is in Global, you must choose Global.

Create EasyAccess2.0 setting page

In the template, window no.76 contains the pre-configured objects for EasyAccess2.0 setting. You can
(1) Copy and paste them to window no.10 (Startup window) or

(2) Create a popup window to display this page, as follows:
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

<table>
<thead>
<tr>
<th>Restriction</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Rate and Usage Limit</td>
<td>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.</td>
</tr>
<tr>
<td>Number of Domains an HMI can be registered in</td>
<td>Only 1 domain</td>
</tr>
<tr>
<td>Number of users an HMI can be connected by at a time</td>
<td>Only 1 user. “Occupied” text will be shown in EasyAccess2.0.</td>
</tr>
<tr>
<td>Number of HMI a user can connect to at a time</td>
<td>10 on PC application</td>
</tr>
<tr>
<td>Service Port</td>
<td>HTTPS port (443)</td>
</tr>
<tr>
<td>Ethernet-Ethernet Pass-through</td>
<td>1 IP address</td>
</tr>
</tbody>
</table>
## System Registers

<table>
<thead>
<tr>
<th>System Tag</th>
<th>Function</th>
<th>Descriptions</th>
</tr>
</thead>
</table>
| 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. |  |
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://account.ihmi.net/domain/. Click on [Domain].

2. Log in to your domain with the name of your Domain and the admin password.

3. Click on the [Add HMI] at the upper-right corner. Select [30 days free trial] within Action type. Fill out the hardware key of the HMI. Click [Free trial] to complete.
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 the other domain.
To do this, go to [Devices] tab » [HMI List], select the trial HMI and click [Activate HMI].

Enter the activation code and click on [Activate] button.
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

<table>
<thead>
<tr>
<th>System Tag</th>
<th>Function</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>LW-11170 (16bit)</td>
<td>Proxy Disable/Enable</td>
<td>0: disable &lt;br&gt;1: enable</td>
</tr>
<tr>
<td>LW-11171 (16bit)</td>
<td>Proxy Type</td>
<td>0: HTTP &lt;br&gt;1: SOCKSv4 &lt;br&gt;2: SOCKSv5</td>
</tr>
<tr>
<td>LW-11172 (16bit)</td>
<td>Proxy Server IP0</td>
<td></td>
</tr>
<tr>
<td>LW-11173 (16bit)</td>
<td>Proxy Server IP1</td>
<td></td>
</tr>
<tr>
<td>LW-11174 (16bit)</td>
<td>Proxy Server IP2</td>
<td></td>
</tr>
<tr>
<td>LW-11175 (16bit)</td>
<td>Proxy Server IP3</td>
<td></td>
</tr>
<tr>
<td>LW-11176 (16bit)</td>
<td>Proxy Server Port</td>
<td></td>
</tr>
<tr>
<td>LW-11177 (16bit)</td>
<td>Proxy authentication</td>
<td>0: disable &lt;br&gt;1: enable</td>
</tr>
<tr>
<td>LW-11178 (16 words)</td>
<td>Proxy username</td>
<td></td>
</tr>
<tr>
<td>LW-11194 (16 words)</td>
<td>Proxy password</td>
<td></td>
</tr>
</tbody>
</table>
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.

![Access setting tab]

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

![Password in FTP URL]

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

![Paste FTP URL in file explorer]
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

![EasyBuilder Pro Event Log](image)

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.

![EasyBuilder Pro Message System](image)
4. To select appropriate language codes for multiple languages, go to [Project] tab » [Language].

![Language Setting](image)

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

![Language Table](image)

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.

![Setting Icon](image)


![Notification Setting](image)
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.

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

Domain Administrator can send his/herself reports that show the activities in the domain.

How to send activity reports.
Go to https://account.ihmi.net/domain/. Click on [Domain].
Log in to your domain with the name of your Domain and the admin password.

Click the user icon at the top-right corner and select [Activity report].

Check [subscribe] and make a schedule. Available options are Daily, weekly, and monthly. Click [Save] to confirm. If you just need one-day reports, click on [Send a copy now(1d)].
Founded in 1996, WEINTEK LABS is a global-leading HMI manufacturer and is dedicated to the development, design, and manufacturing of practical HMI solutions. WEINTEK LAB’s mission is to provide quality, customizable HMI-solutions that meet the needs of all industrial automation requirements while maintaining customer satisfaction by providing “on-demand” customer service. WEINTEK LABS brought their innovative technology to the United States in 2016, WEINTEK USA, INC., to provide quality and expedient solutions to the North American industrial market.

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