

cMT 2000/3000x Series

User Manual

Your industrial control solutions source

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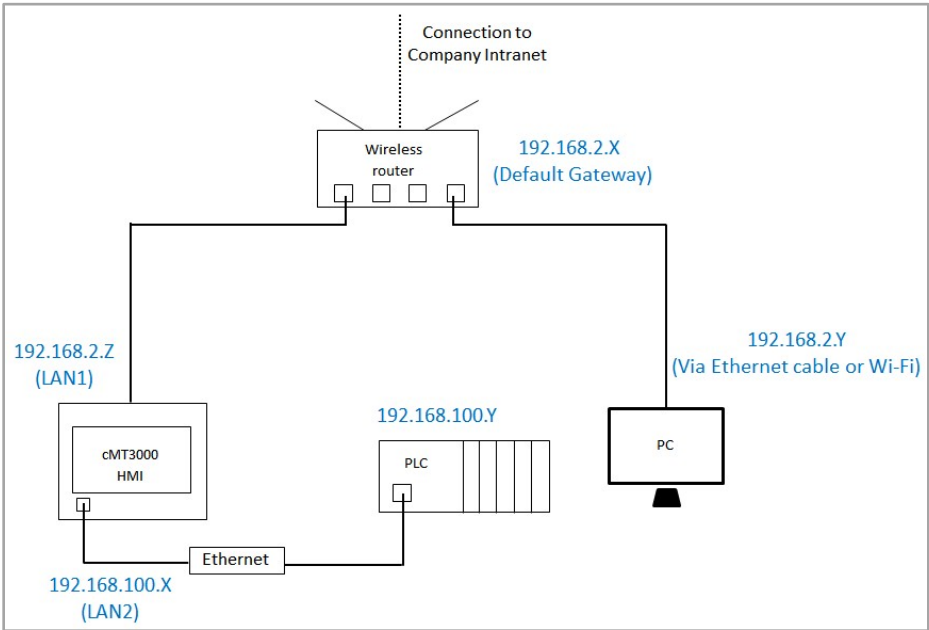
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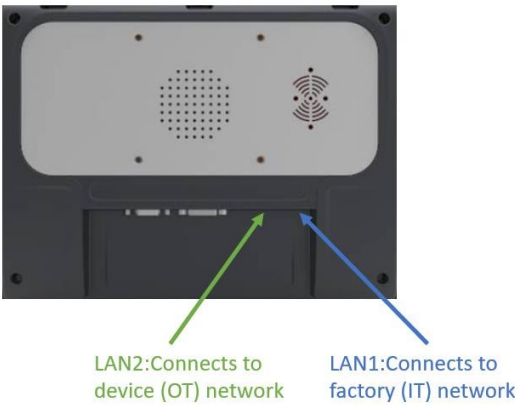
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Chapter 1 - Network Wiring Diagram

Connect a cMT2000/3000x HMI to a router by an Ethernet cable as the diagram shows below. The default IP address of LAN 1 is DHCP. The default IP address of LAN 2 is the static IP 192.168.100.1. The IP addresses of LAN 1 and LAN 2 must be configured to different subnets, except for cMT2000/3000x HMIs which have been activated with a CODESYS license.



cMT2000/3000x LAN ports: cMT2000/3000x HMIs are equipped with two independent Ethernet ports which isolate the device network from the company/factory network. LAN1 is a WAN (Wide Area Network) port which is allowed to connect to a public network or another network via a gateway. LAN2 is a LAN (Local Area Network) port.



Chapter 2 - Setup

Tap the system toolbar button in the top left corner to open the setup menu.

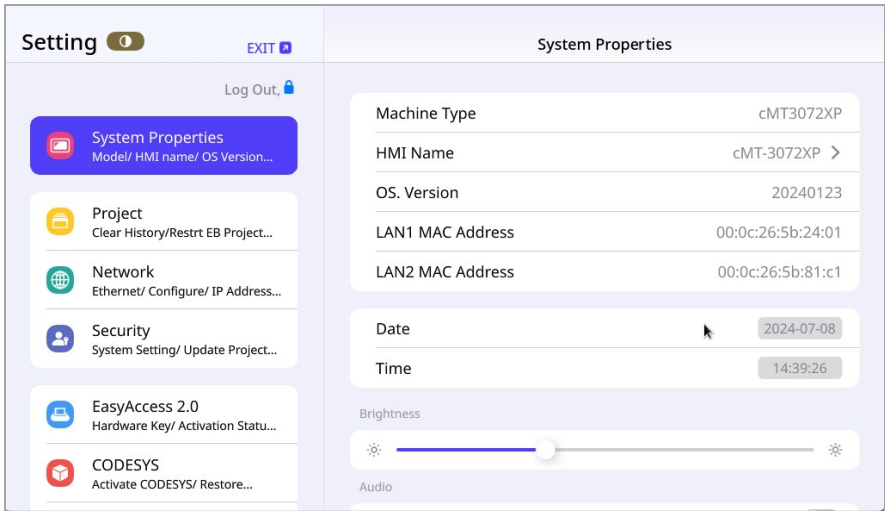


System Properties

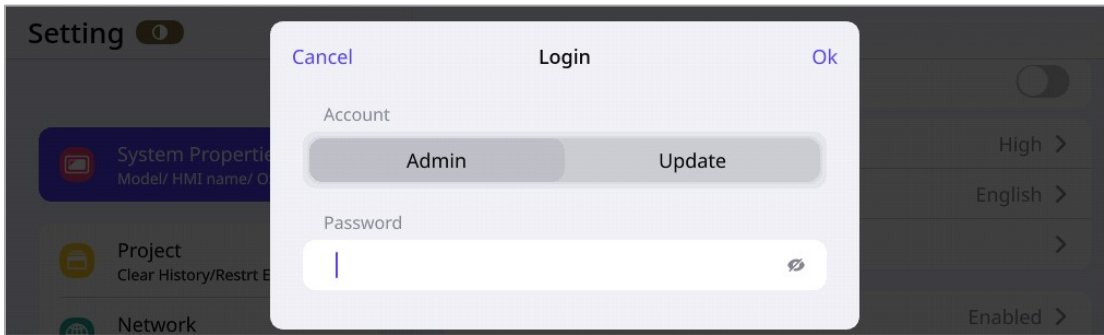
This menu shows general information about the cMT2000/3000x HMI and its Date & Time (RTC).

HMI Name - You can change the name of a cMT2000/3000x HMI to identify this HMI when retrieving historical data or loading a project from a PC. This saves time remembering the IP address of each cMT2000/3000x HMI.

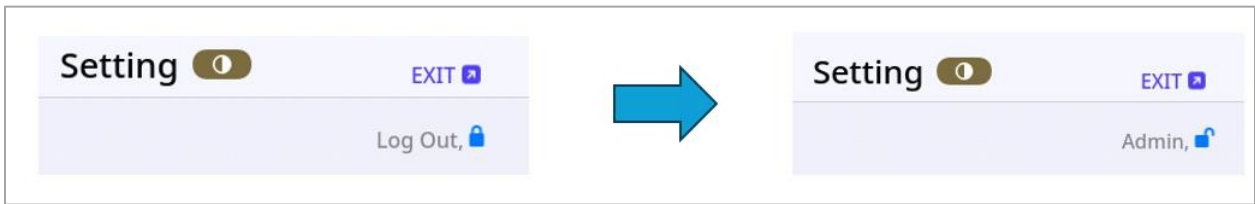
Date, Time - You can adjust a cMT2000/3000x HMI's RTC manually.



Note regarding the password requirement for some advanced settings: Changing some settings will require you to enter the password in advance. Generally, there are two different levels of password protection. **Admin** can be used to change all advanced settings. Select **Admin** and enter the admin password. By default, the password of **Admin** is 111111.



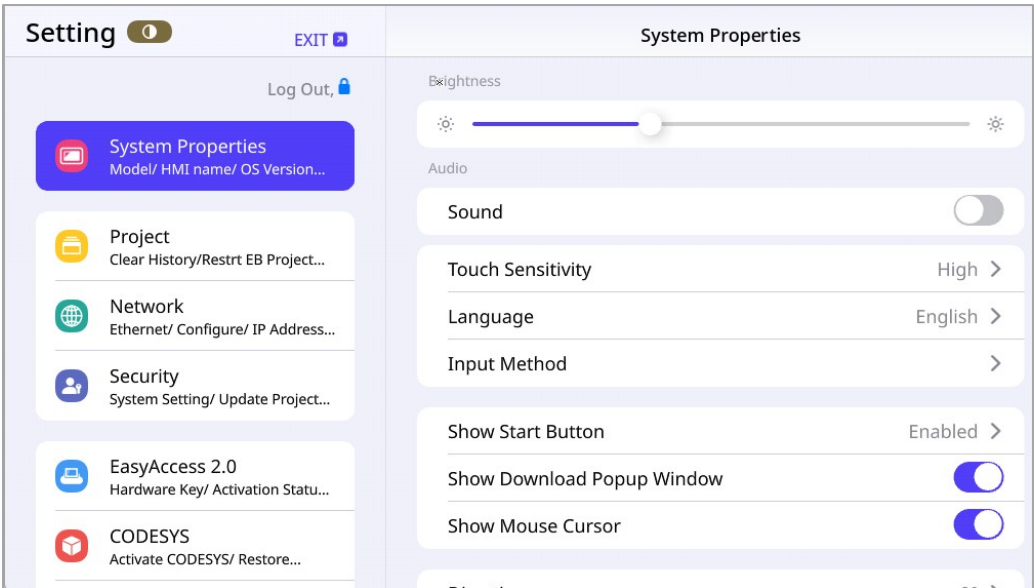
After login, the icon will become unlocked, and the text will become "Admin."



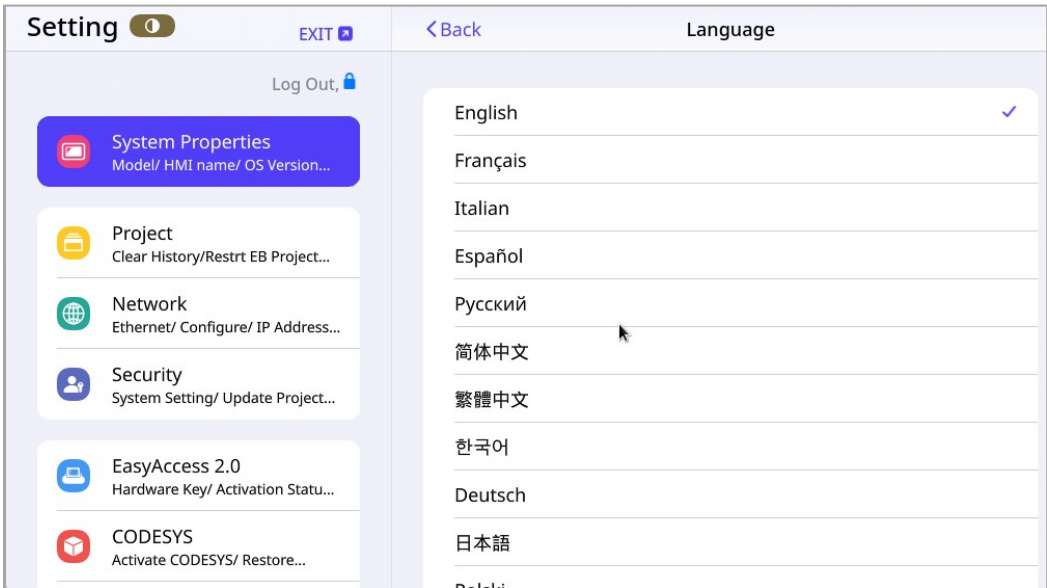
Brightness - You can adjust the brightness of the screen. For some HMI models, there is a setting that allows you to adjust audio volume for the built-in speaker.

Sound - You can activate the built-in beeper of the HMI.

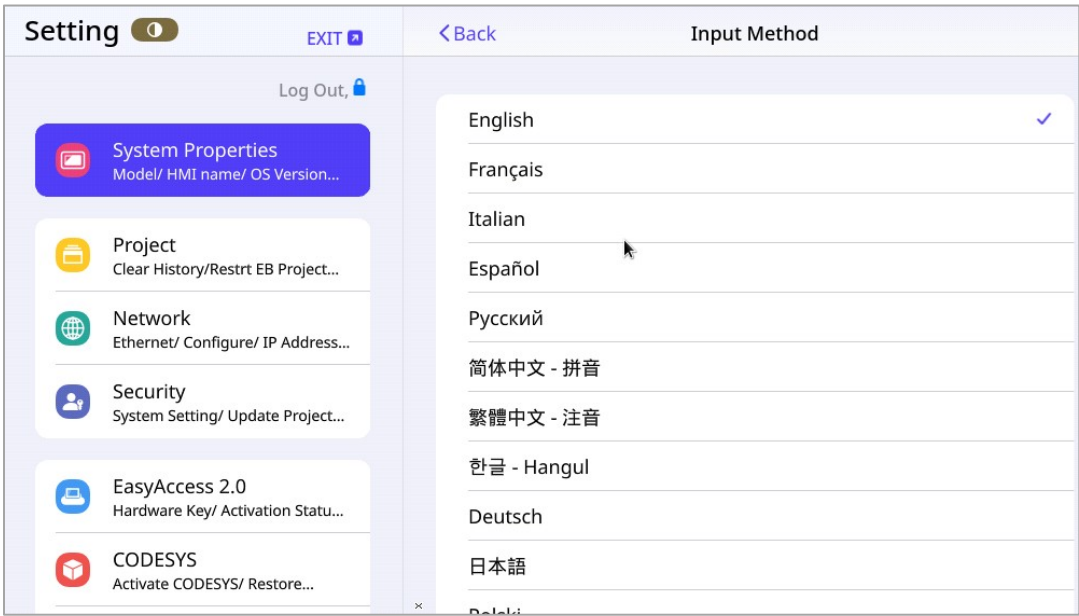
Touch Sensitivity - If the HMI is equipped with a capacitive touchscreen, you can change the level of touch sensitivity if needed. By default, the level is set to High.



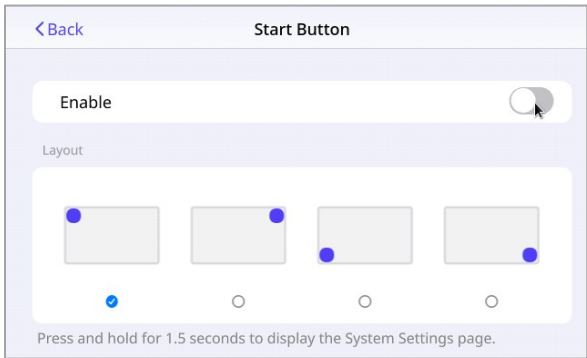
Language - Select a language for the system settings menu. The language selected on the EBPro project of the cMT2000/3000x HMI won't be affected by this language setting.



Input Method - Select a language or multiple languages for the system keyboard input.



Show Start Button - You can hide the system toolbar button if needed.

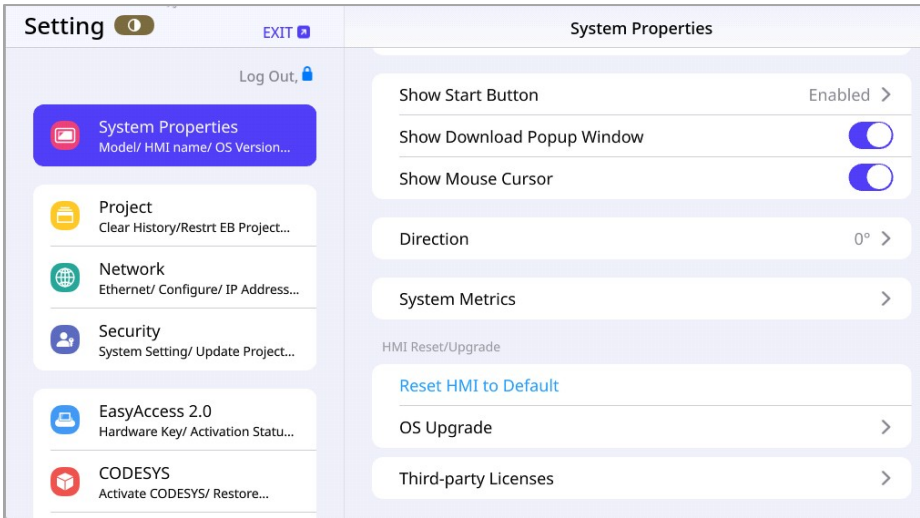


Show Download Popup Window - If enabled, after inserting a USB disk (or SD card) to the USB host port (or SD card slot) of the cMT2000/3000x HMI, the Upload/Download dialog prompt window will pop up on the HMI screen.

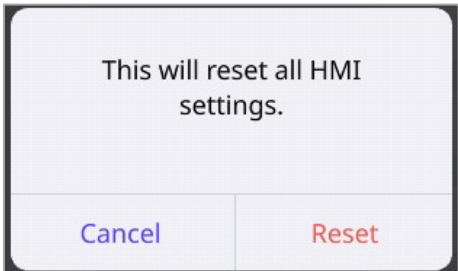
Show Mouse Cursor - You can display a mouse cursor on the HMI screen.

Direction- You can change the screen display to portrait orientation or landscape orientation.

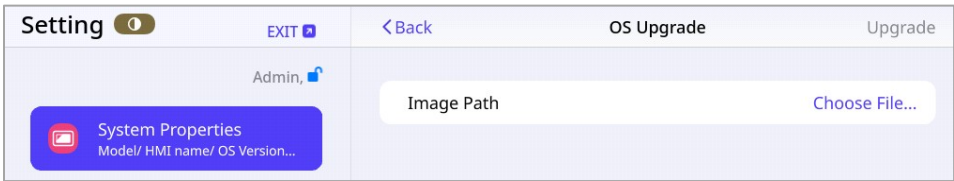
System Metrics - displays CPU loading and information about RAM memory usage, flash reading/writing rate, ethernet usage, and eMMC health status.



Reset HMI to Default - This option is used to reset the cMT2000/3000x HMI to its factory default settings. Tap the **Reset** button to confirm this process.

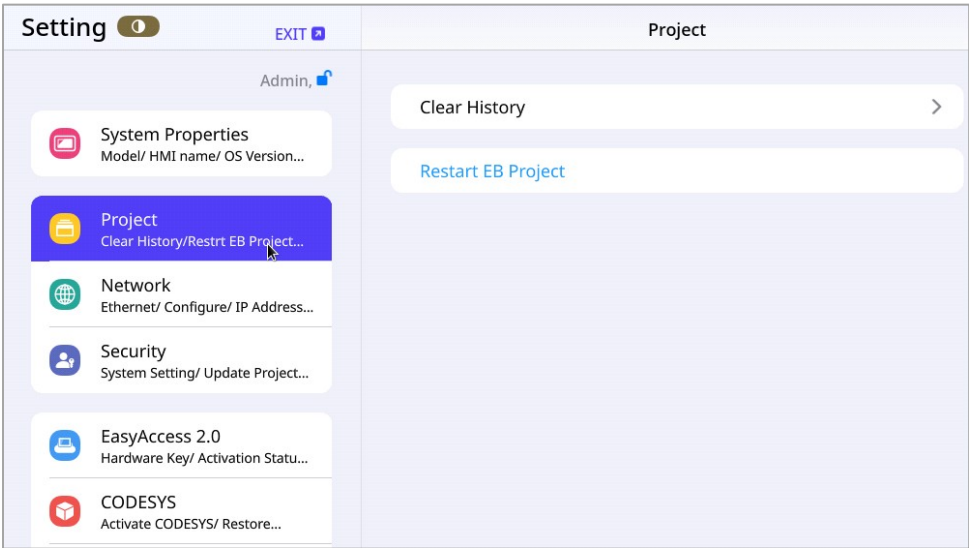


OS Upgrade - This option is used to upgrade the OS version of the cMT2000/3000x HMI.

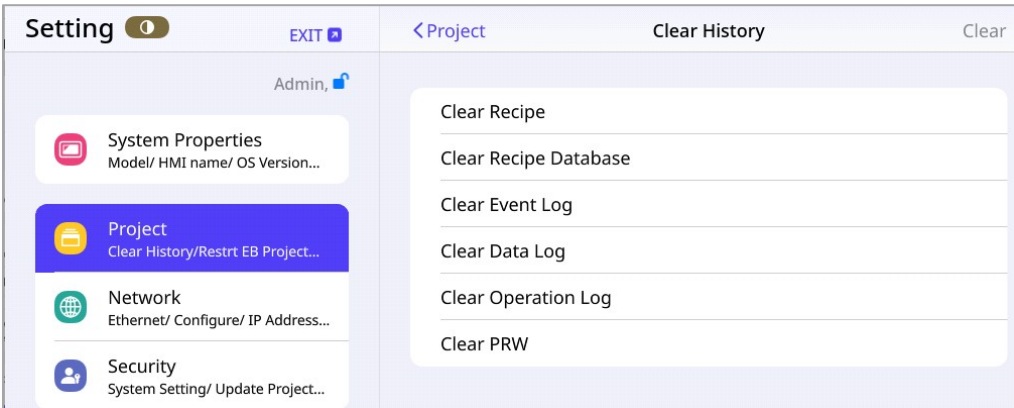


Project

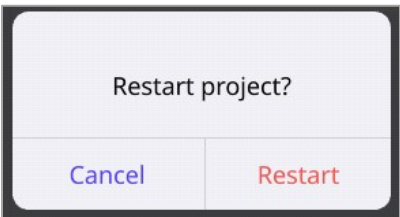
This menu shows you options regarding your EBPro project.



Clear History - This option is used to clear historical data, recipes, and recipe database stored in the internal memory of the cMT2000/3000x HMI.



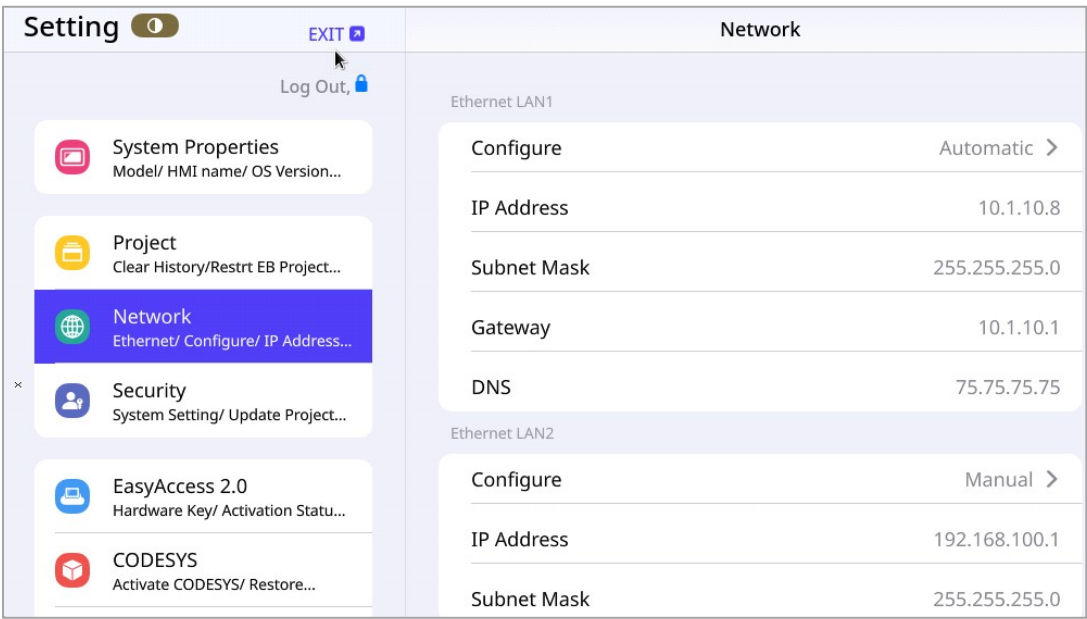
Restart EB Project - Restarts the project of the cMT2000/3000x HMI and restores it to its initial state without cycling power. Tap the **Restart** button to confirm this process.



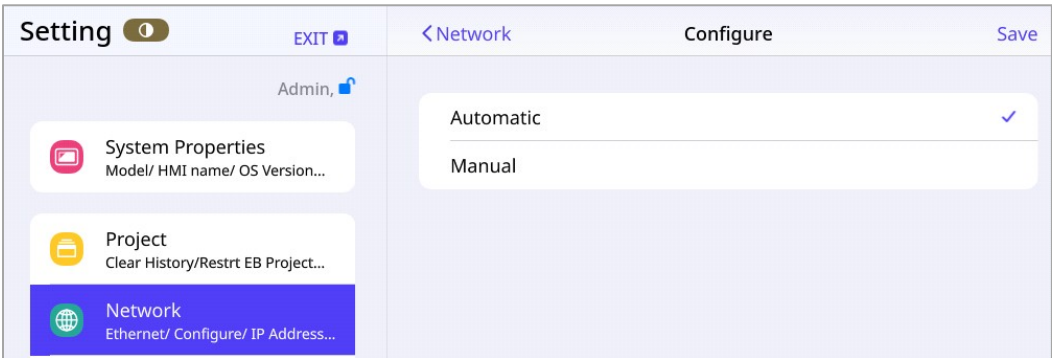
Network

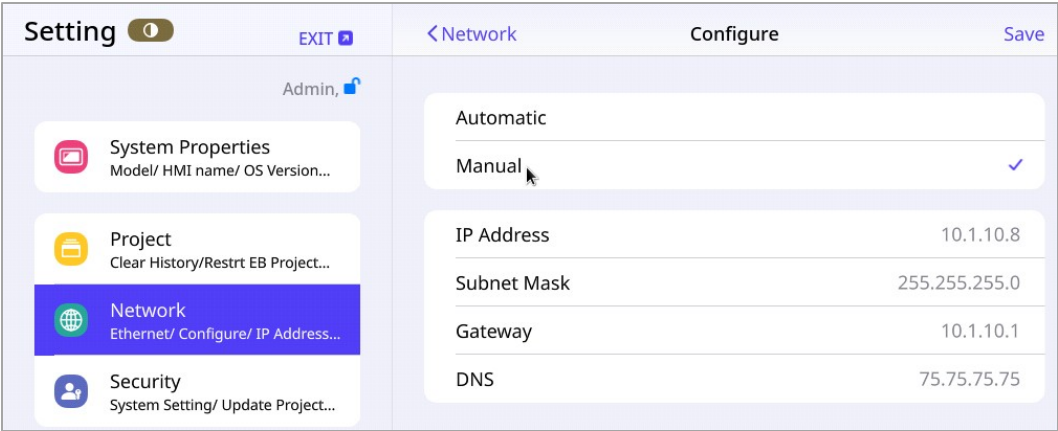
This menu shows you information and options regarding the ethernet ports.

You should configure the IP addresses of Ethernet 1 (LAN1) and Ethernet 2 (LAN2) when using the HMI. By default, the IP address of Ethernet 1 is DHCP, and the IP address of Ethernet 2 is 192.168.100.1. The IP addresses of Ethernet 1 and Ethernet 2 must be on separate subnets, except for cMT2000/3000x HMIs with CODESYS activated.

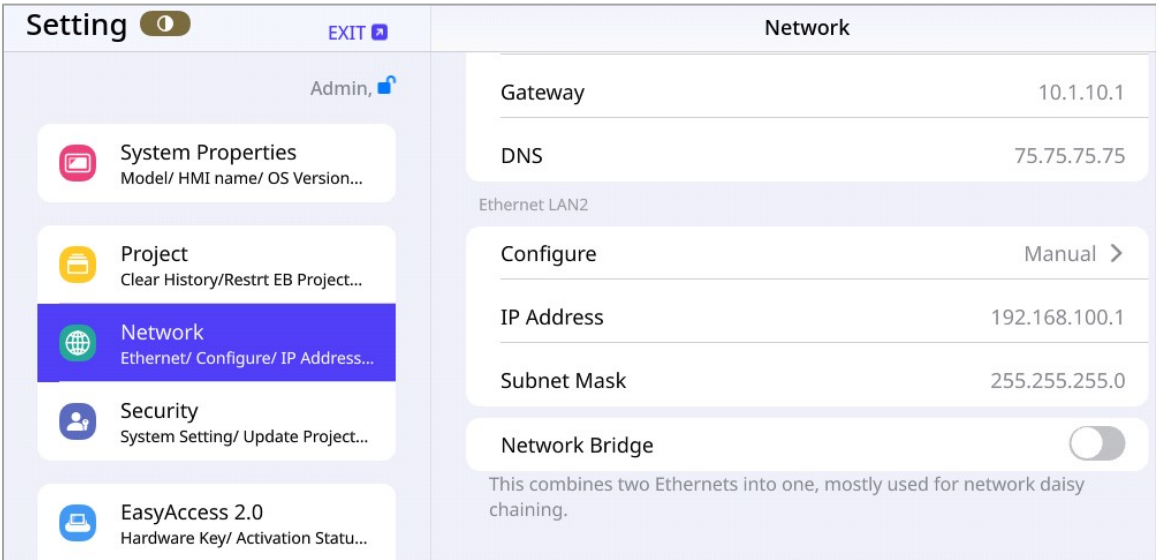


Click on the ">" button. Enable **Automatic (DHCP)** or set the IP address manually when **Manual (Static IP)** is selected.

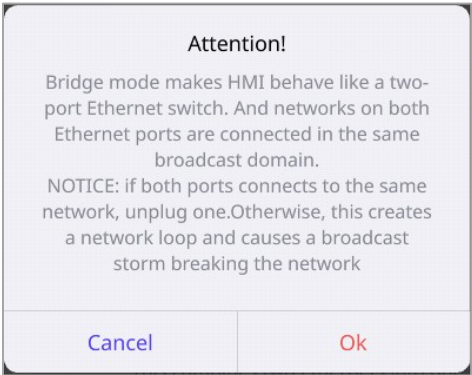




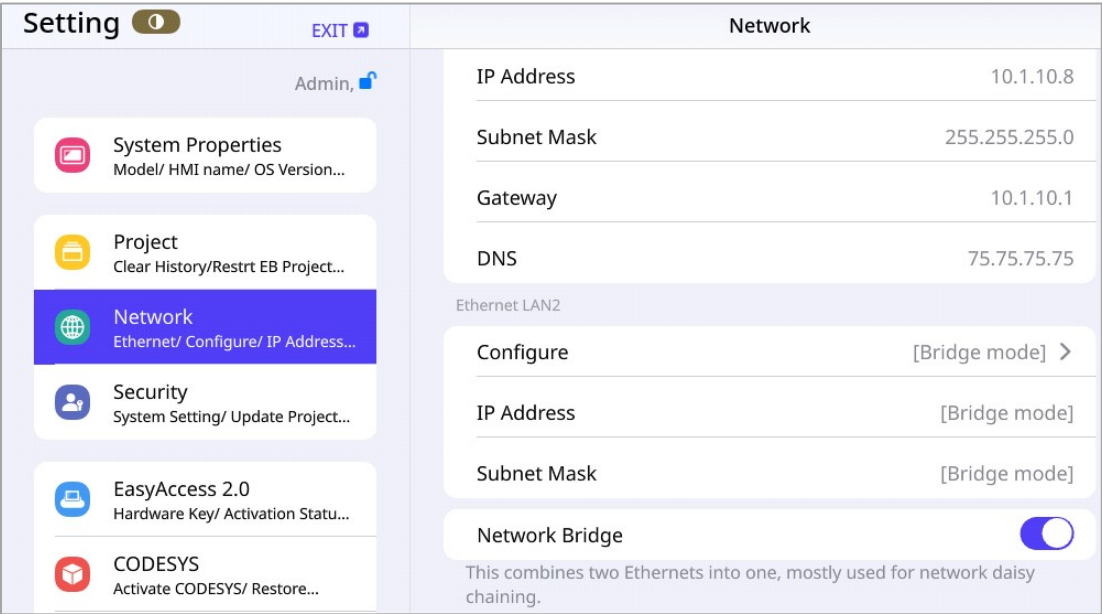
Network Bridge - This option will make the HMI behave like a two-port ethernet switch instead of the dual ethernet subnets by default.



When activating the Network Bridge, the prompt window will pop up. Click OK.



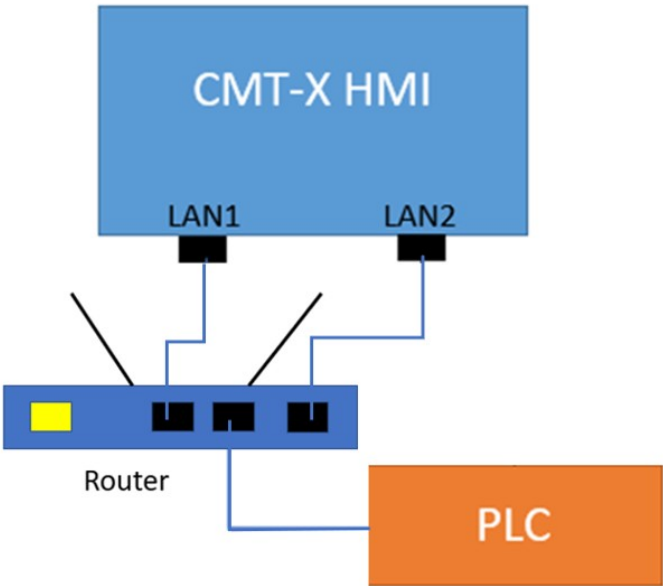
Then you will notice that the Ethernet 2 is unconfigurable and marked as **Bridge mode**.



Note: Do NOT connect both ethernet ports to the same network when bridge mode is active or this will create a network loop and broadcast storm, breaking the network.



Ethernet bridge enabled



Security

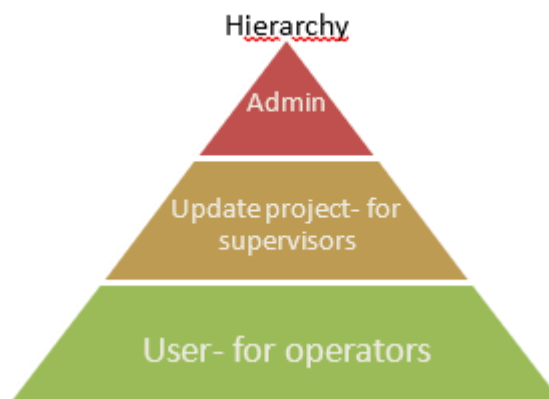
This menu is used to change the passwords for operating a project via cMT viewer, loading a project to the HMI, accessing FTP server, and so on. There are three different user levels of password protection, **User**, **Update Project**, and **Admin**. By default, the passwords of the three user levels are 111111.

User - This level can operate the cMT project via cMT viewer.

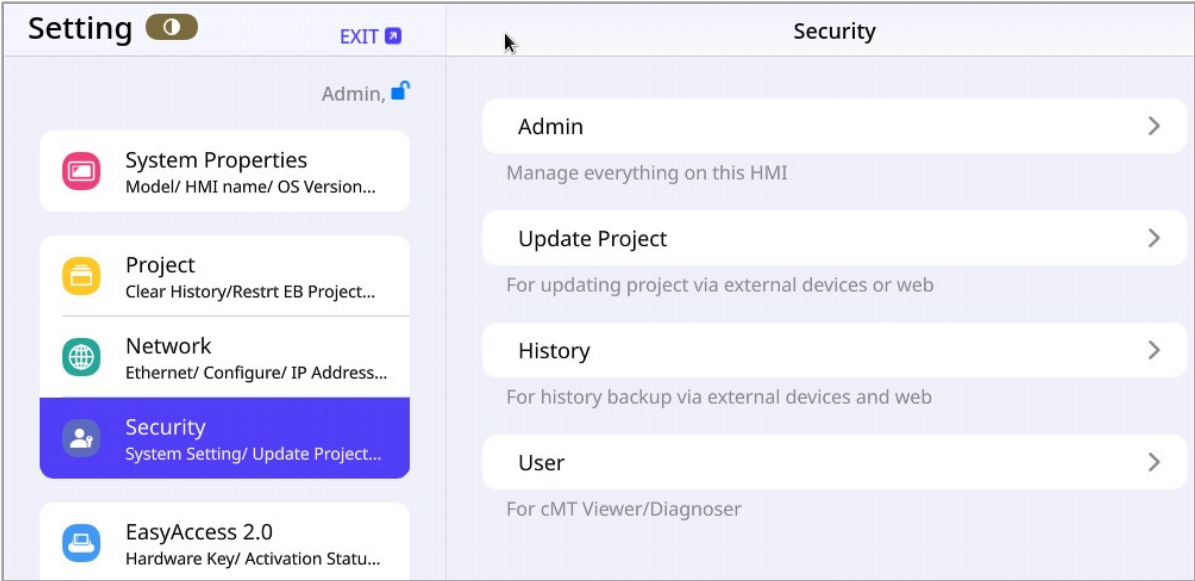
Update project - This level can load and retrieve the HMI project, as well as retrieve historical data, such as data sampling and event log data. In addition, it can operate the cMT project via cMT viewer.

Admin - This level has access to all system settings, load and retrieve the project, retrieve historical data, and operate the cMT project via cMT viewer. It is the *highest security level*.

History - For the FTP server access or USB upload. By default, the password is 111111. In addition, it can operate the cMT project via cMT viewer.



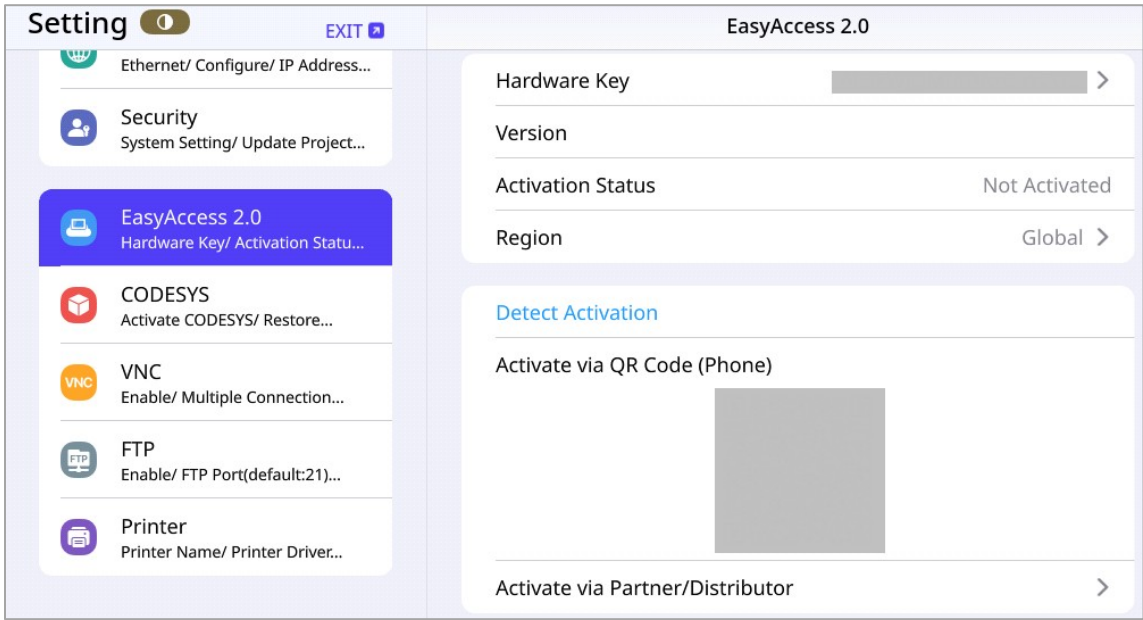
To prevent unauthorized users from accessing the HMI via cMT Viewer using the password "111111", change the "Admin" password, the "Update project" password, the "History" password, and the "User" password.



EasyAccess2.0

EasyAccess 2.0 is a tool that allows users to access and control a cMT2000/3000x HMI remotely from anywhere in the world. A few cMT2000/3000x HMIs are pre-licensed EasyAccess2.0.

For more information about EasyAccess2.0, refer to an EasyAccess2.0 user manual.



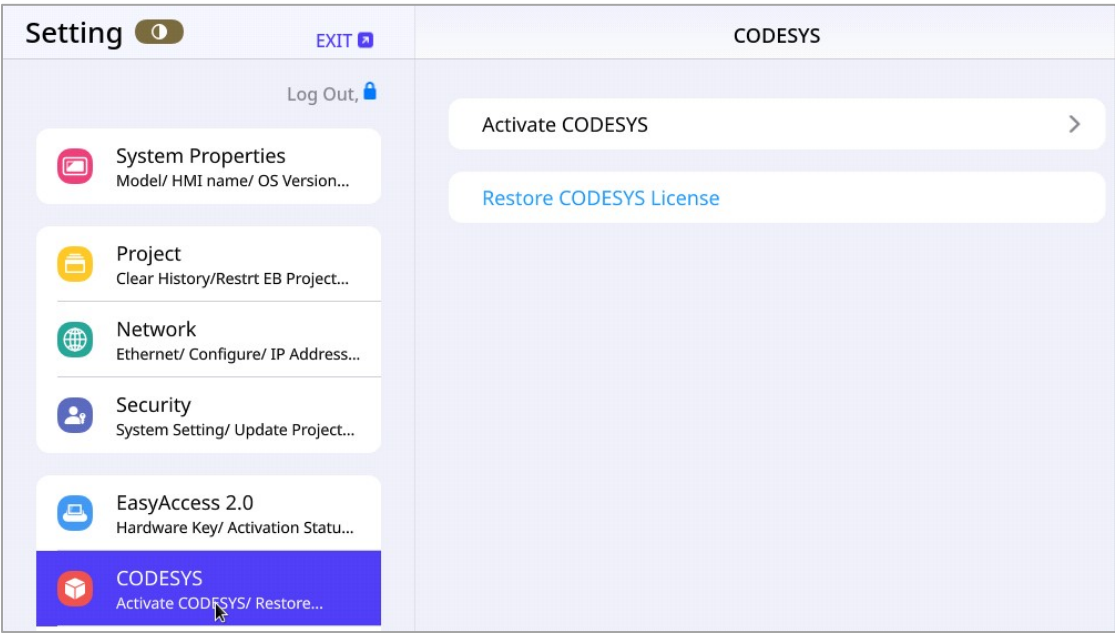
CODESYS

This menu is used to activate the CODESYS runtime. To activate this feature on a cMT2000/3000x HMI, a CODESYS license is required from Maple Systems.

Activate CODESYS - Enter the codes shown on a CODESYS license. Click **Activate** to activate the CODESYS runtime.

Note: *Once CODESYS is activated, there is no way to remove the CODESYS license from the cMT2000/3000x HMI.*

Restore CODESYS License - The CODESYS functionality will be restored if it is enabled. Contact Maple Systems before using this.



VNC

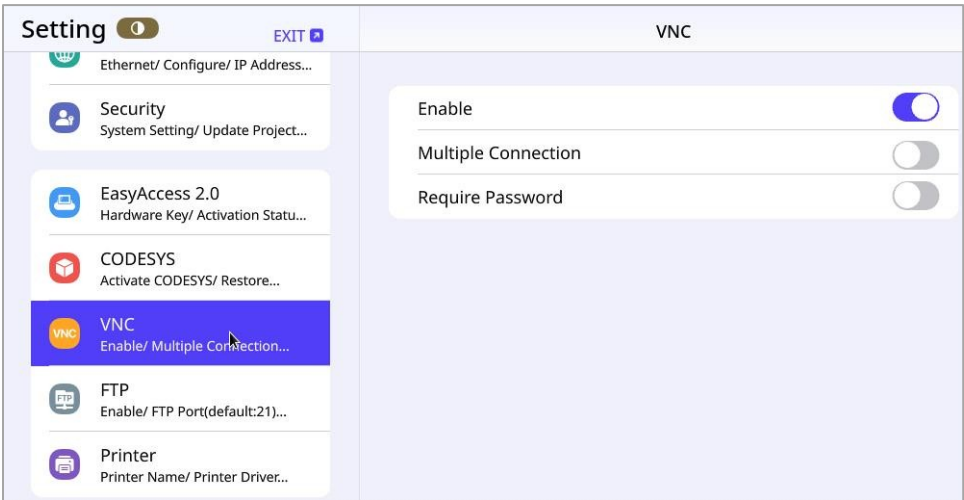
The VNC server provides remote HMI monitoring and controlling via an ethernet connection.

Enable - Allows the VNC server to run on the HMI. Only one VNC client can get connected to

the VNC server.

Multi Connection - Allows connection with multiple VNC clients. Connecting the VNC server to too many VNC clients may slow down the communication speed and HMI performance.

Require Password- Specify a password. Logging into a VNC server will require the password.



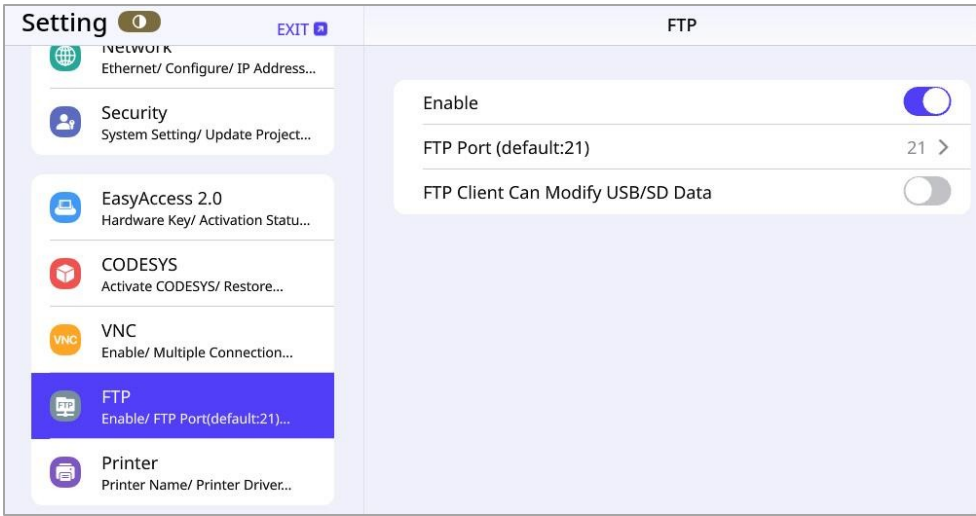
FTP

The FTP server provides a way to remotely retrieve historical data from the HMI.

Enable - Allows the FTP server to run on the HMI.

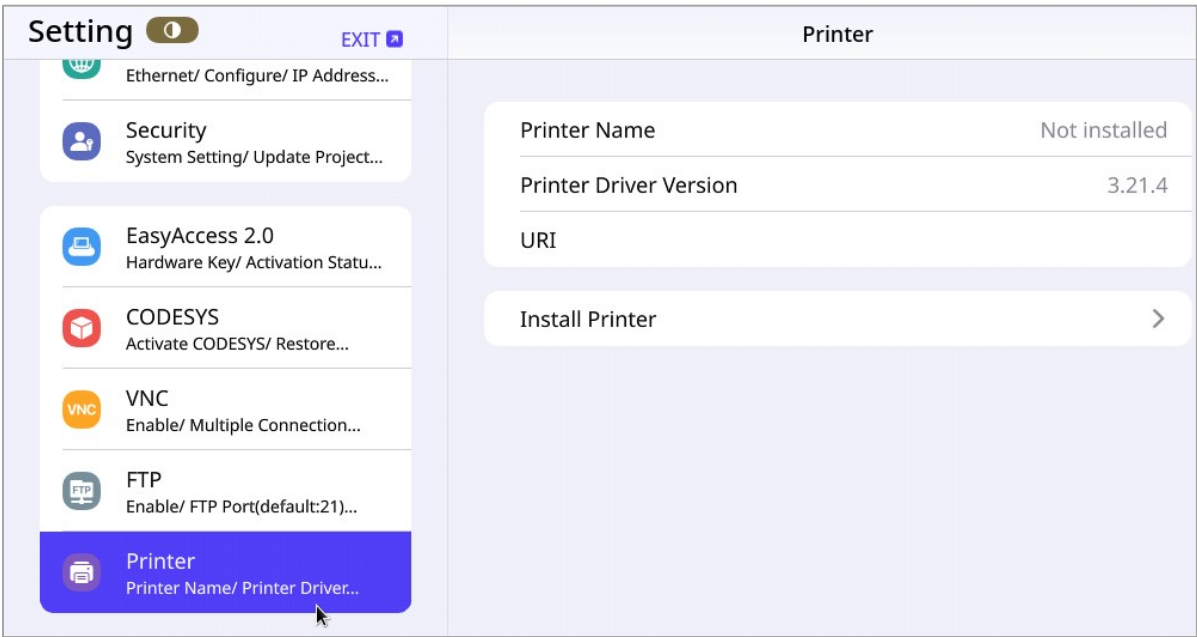
FTP Port - Click the ">" button to change FTP port number.

FTP Client Can Modify USB/SD data - If enabled, historical data stored in USB drive/SD card can be modified using any FTP (File Transfer Protocol) clients.

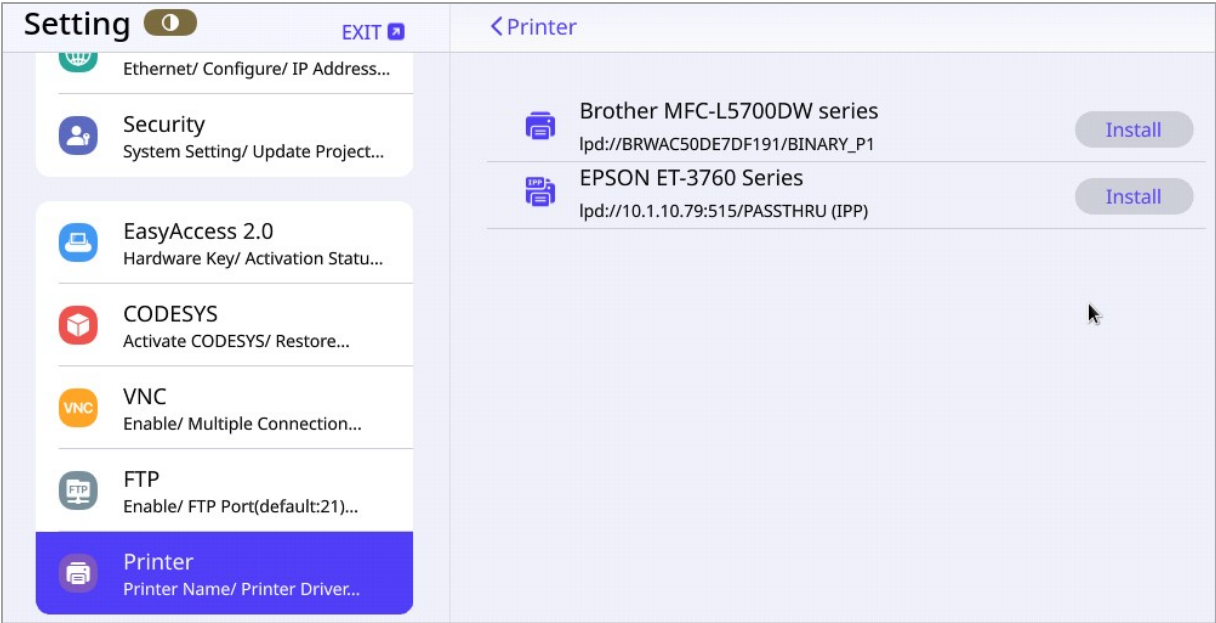


Printer

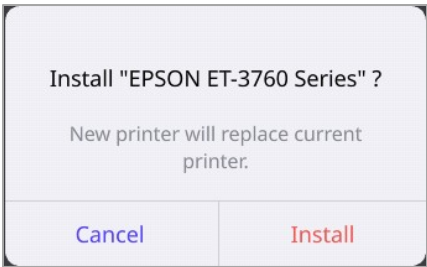
This menu allows you to build a connection between the HMI and your ethernet-based printer. For applicable printer types, refer to related documentation.



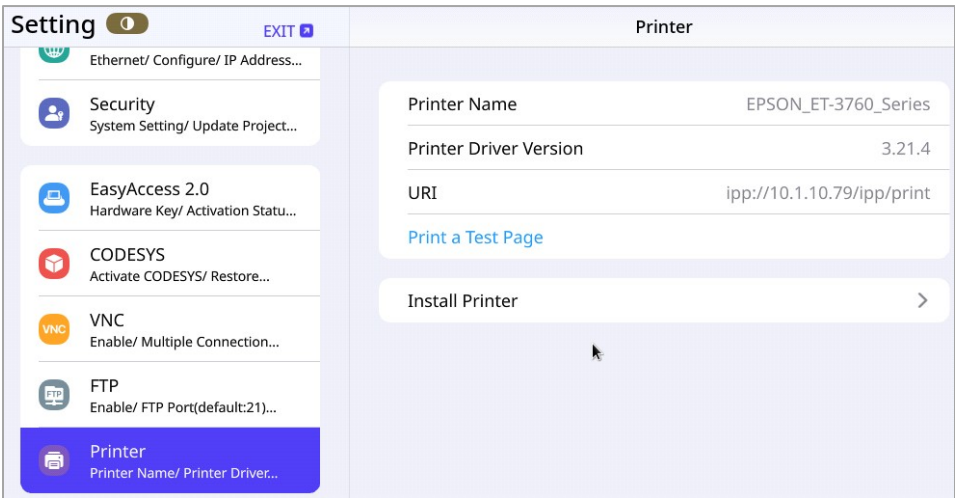
Install Printer - Click the ">" button to search for applicable printers on your network. Then select a printer by tapping the **Install** button.



Then tap the **Install** button to confirm this process.

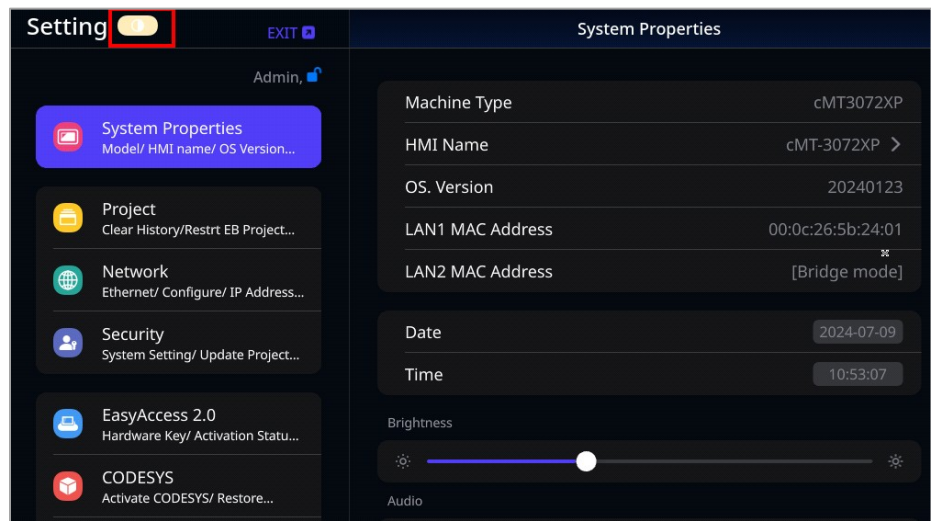


Now the driver of the printer has been installed on the HMI.



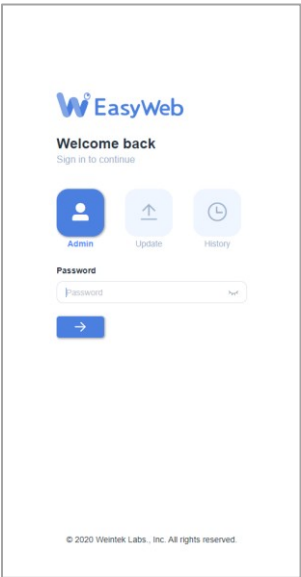
Theme

You can choose light or dark theme for your System Settings UI.

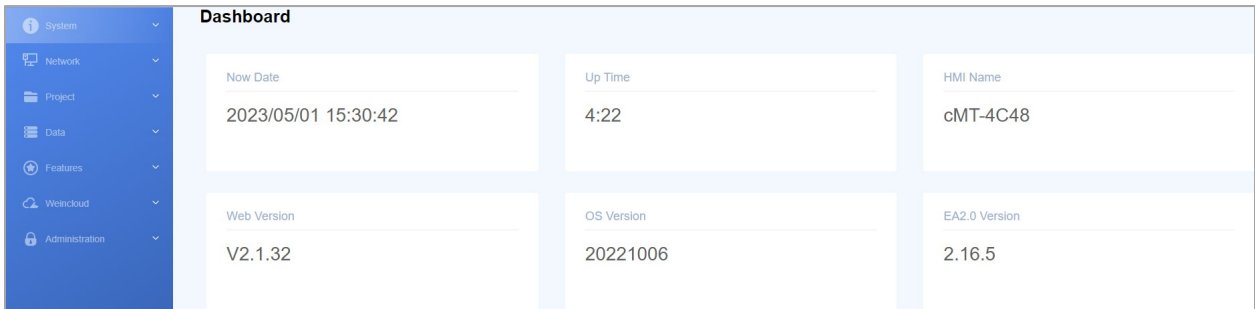


Chapter 3 - Web Interface

A cMT2000/3000x HMI's setting can also be accessed via a web browser. Before configuration, connect cMT2000/3000x HMI (LAN1) to a router via an Ethernet cable. Open a web browser (Edge, Chrome, or Firefox) and enter the IP address of the cMT2000/3000x HMI. For example, enter 192.168.1.15. Select an identity and enter its password.



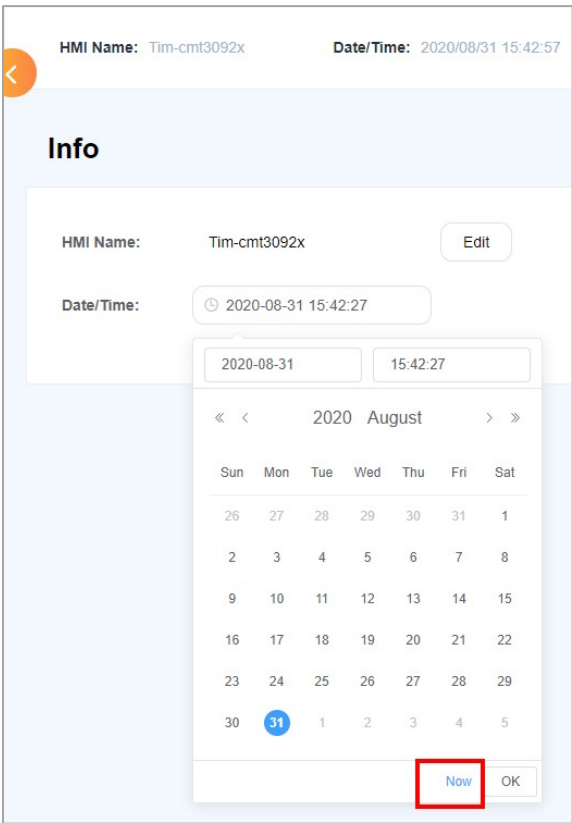
The tabs of the web interface are displayed as shown. They are **System**, **Network**, **Project**, **Data**, **Features**, **Weincloud**, and **Administration**.



Feature Introduction

System > Info

Now within **Date/Time** - Synchronizes the HMI RTC with the PC RTC.



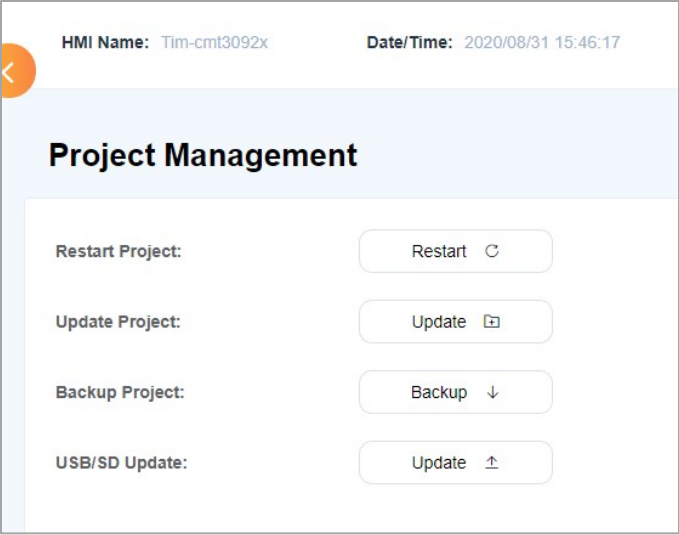
Project > Project Management

Restart Project - Restarts cMT2000/3000x HMI and restores it to its initial state.

Update Project- Loads a project and recipes from the PC to cMT2000/3000x HMI.

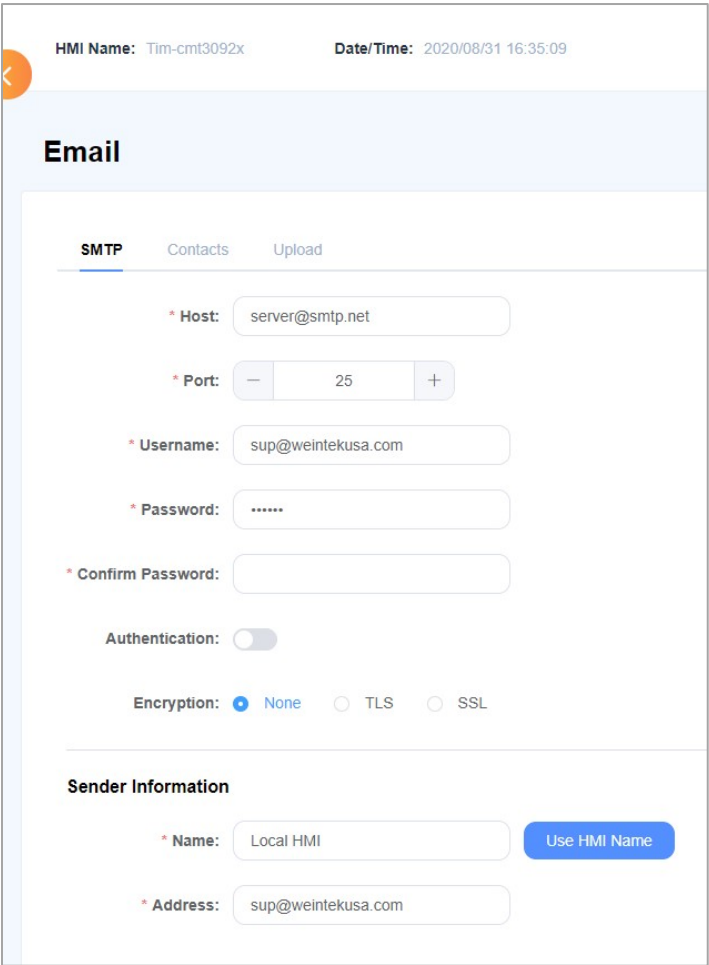
Backup Project- Uploads a project from cMT2000/3000x HMI to the PC.

USB/SD Update- Loads a project via a USB drive/SD card plugged into the slots of cMT2000/3000x HMI. Select the *.cxob file and click **Update**.



Project > Email

This page provides setup of the SMTP server and email contact lists. For more information, refer to section 5.11 **e-Mail** in the EBPro user manual.



Project > Recipe

Update - Select a button to transfer recipe files from the PC to the cMT2000/3000x HMI.

Backup - Select a button to transfer recipe files from the cMT2000/3000x HMI to the PC.

Clear - It is used to clear recipe and database information stored in cMT2000/3000x HMI.

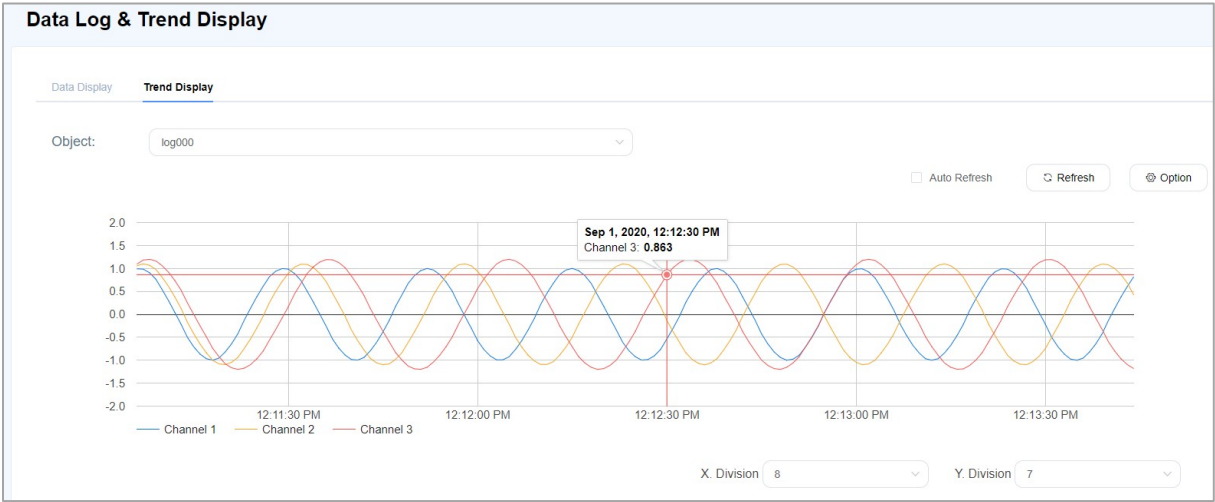
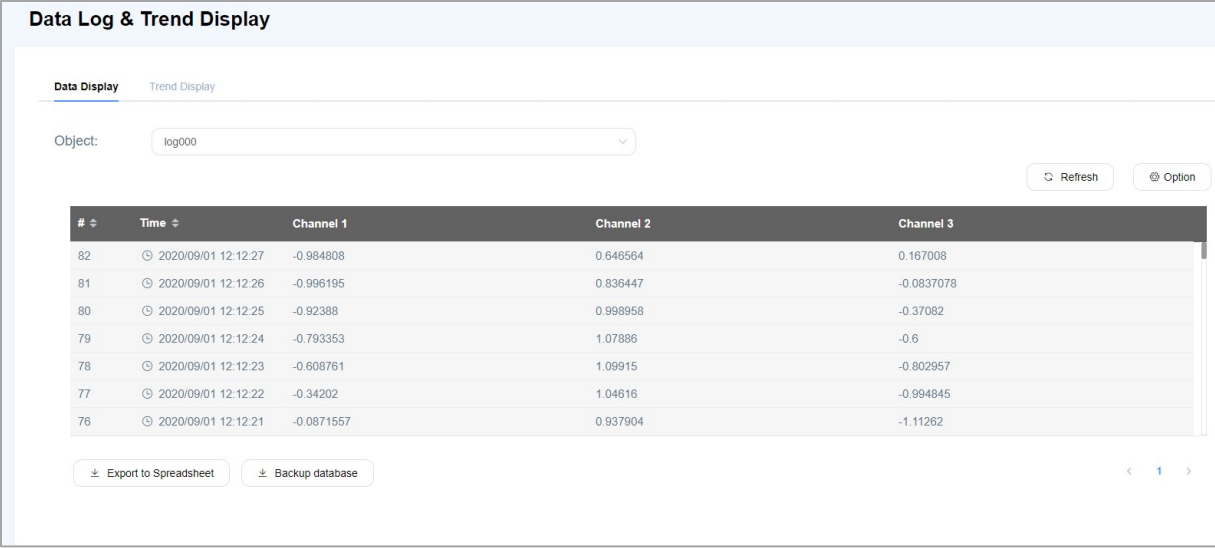
HMI Name: Tim-cmt3092x Date/Time: 2020/08/31 15:53:18			
Recipe			
Item	Action		
	Update	Backup	Clear
Recipe Database	<button>Update</button>	<button>Backup</button>	<button>Clear</button>
RW	<button>Update</button>	<button>Backup</button>	<button>Clear</button>
RW_A	<button>Update</button>		

Data > Data Log & Trend Display

This page displays data log information via a data spreadsheet or a trend chart. Data within each spreadsheet can be backed up individually by clicking **Export to Spreadsheet** or **Backup database**.

Export to Spreadsheet - This function generates a CSV file.

Backup database - This function generates a compressed file of the .db files.



Data > Event Log

This page displays a data table in which operators can easily see important event information recorded on the HMI.

Event Log

Time column

2020-08-04 to 2020-09-01

Category range (0 - 255)

0 255

Keywords

Add terms

Select Language

Language1

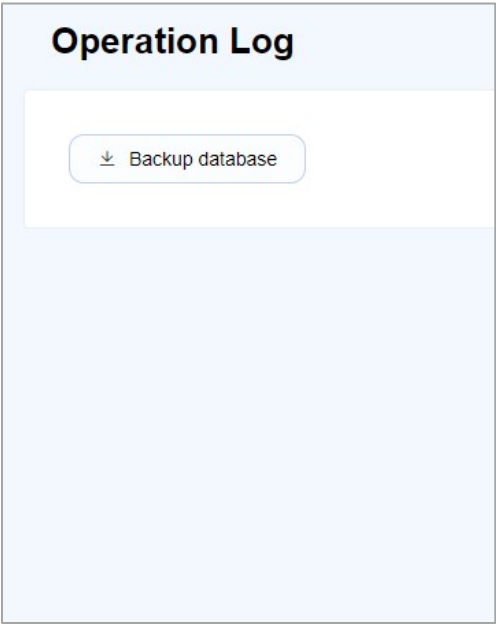
#	Category	Event Message	Event trigger time	Return to normal time	Occurrence count	Elapsed ti	Refresh
1	1	Machine Error !!	2020/09/01 12:14:22		15	88	
2	1	Flow Speed Error !!	2020/09/01 12:14:18	2020/09/01 12:14:26	6	48	
3	1	Tank Error !!	2020/09/01 12:14:09	2020/09/01 12:14:19	10	95	
4	1	Machine Error !!	2020/09/01 12:14:08	2020/09/01 12:14:15	14	88	
5	1	Machine Error !!	2020/09/01 12:13:54	2020/09/01 12:14:01	13	82	
6	1	Tank Error !!	2020/09/01 12:13:49	2020/09/01 12:13:59	9	86	
7	1	Flow Speed Error !!	2020/09/01 12:13:42	2020/09/01 12:13:50	5	40	
8	1	Machine Error !!	2020/09/01 12:13:40	2020/09/01 12:13:47	12	75	
9	1	Tank Error !!	2020/09/01 12:13:29	2020/09/01 12:13:39	8	77	
10	1	Machine Error !!	2020/09/01 12:13:26	2020/09/01 12:13:33	11	69	

Export excel

Backup database

Data > Operation Log

This page allows you to back up operation log information recorded on the HMI.



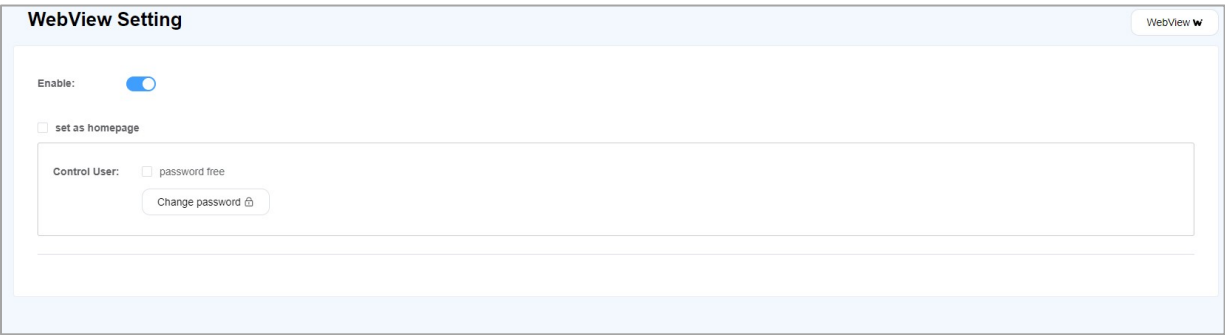
Features > Webview Setting

Webview offers direct control over HMI screens using a web browser.

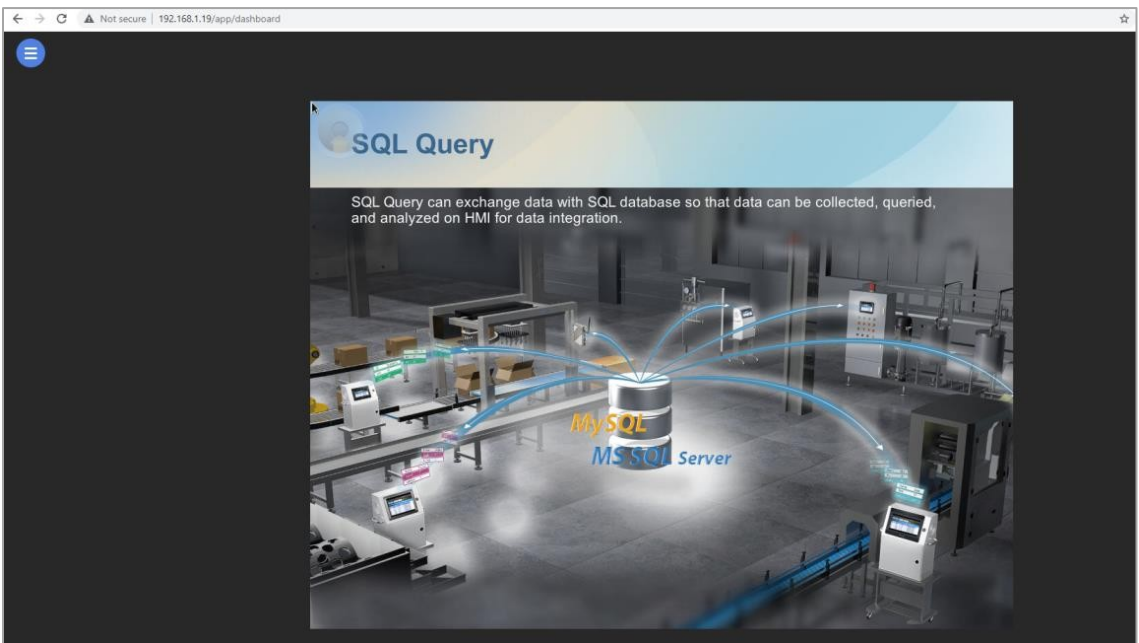
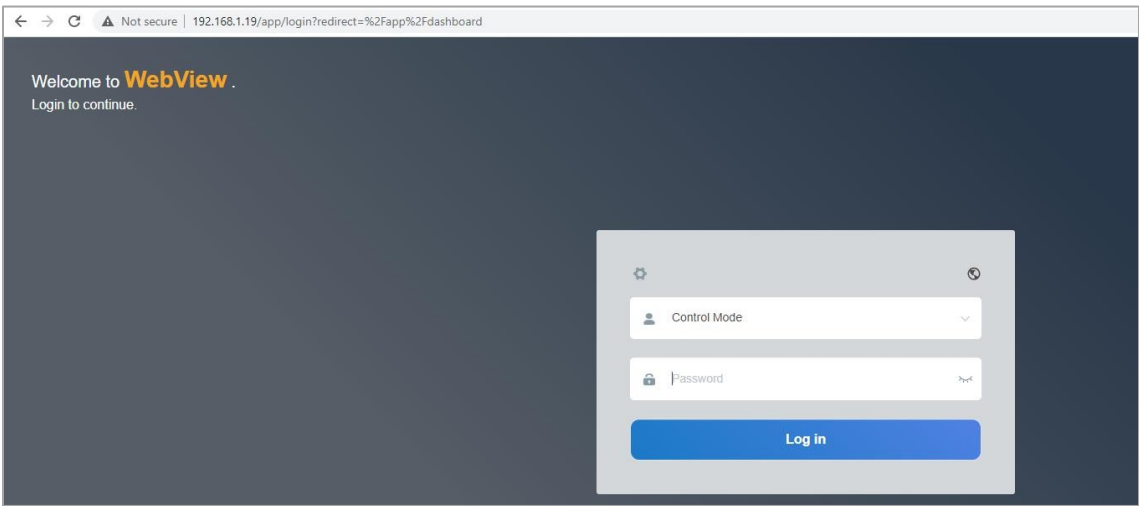
Set as homepage – If enabled, Webview will be the home page of the web interface.

Change password - Set a password to prevent unauthorized operators from accessing Webview.

Webview - Go to the Webview page to control the HMI screen remotely.



If a password is set up for **Webview**, operators will have to enter the correct password.



Features > CODESYS

Status - If activated, this tab shows CODESYS network information and status information.

CODESYS

StatusUpdate

Activation Serial Number:

CODESYS status: start

Application status: stop

Login status: logout

Ethernet(LAN1):

IP address: 0.0.0.0

Subnet mask: 0.0.0.0

Gateway: 0.0.0.0

CODESYS version: 20200528

Enable CODESYS login:

☐ Gateway

Project update (If activated) - Loads CODESYS PLC project from the PC to cMT2000/3000x HMI. Navigate to the folder containing *.app file and *.crc file and choose them.

CODESYS update (If activated) - Upgrade CODESYS firmware from the PC to cMT2000/3000x HMI. Navigate to the folder containing *.bin file and choose it.

CODESYS

StatusUpdate

Project update

Project.app & Project.crc :

Upload

CODESYS update

firmware.bin :

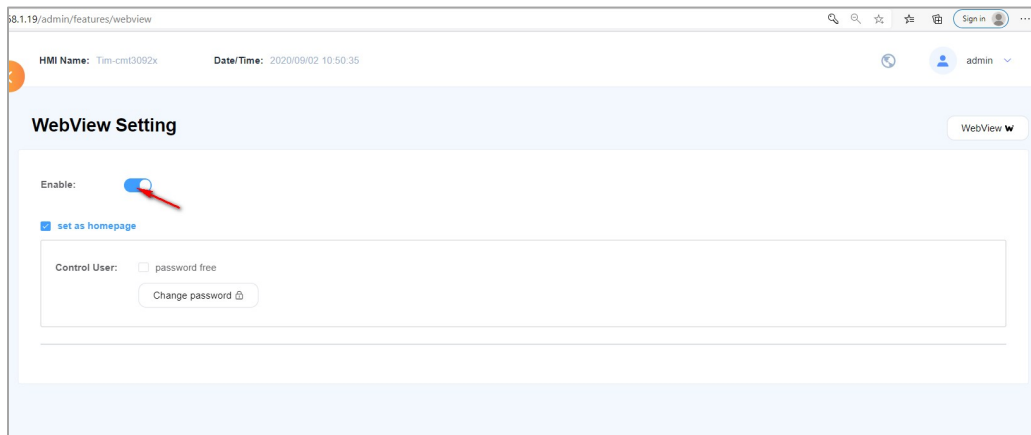
Upload

*Note: Updating firmware will also restart HMI.

Chapter 4 - How to Use WebView

Webview is used to monitor and control a cMT2000/3000x HMI on a web browser. It supports the following web browsers on a Windows PC, Chrome, FireFox, and Edge. Up to 4 users can access Webview simultaneously.

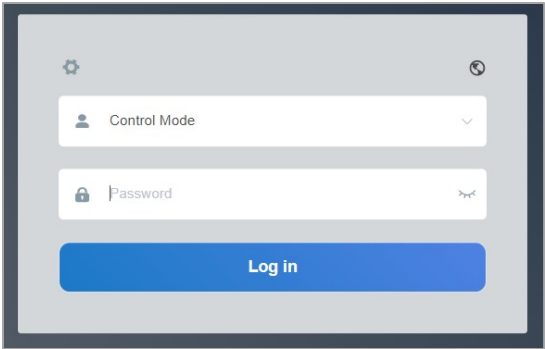
To use this feature, Webview must be enabled on the **Webview Setting**. You can set up password protection by clicking the **Change password** button. If password protection is not necessary for your application, check the **password free** button to disable password protection.



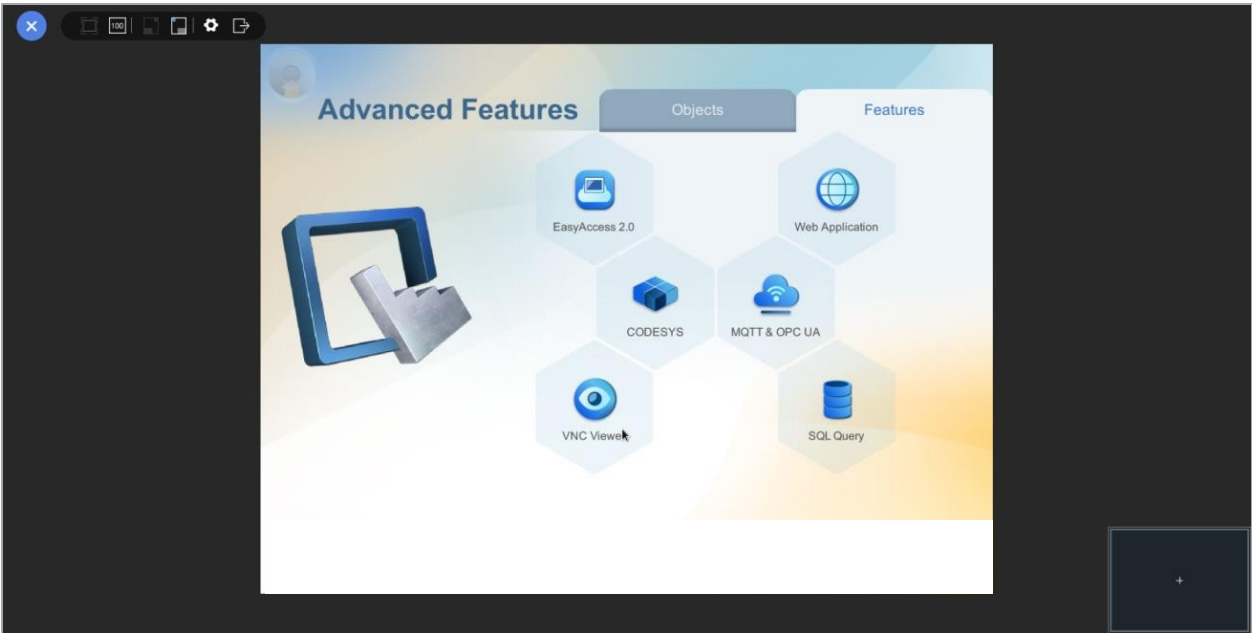
If **Set as homepage** is enabled on the **Webview Setting** tab, Webview will be the home page of the web interface.

How to login to Webview

1. Open a web browser and enter HMI's IP address.
2. Enter the correct password.



- 3. The HMI screen will be displayed on the web browser. Use the "square" located in the bottom right corner to scroll around the screen when zoom level exceeds 100%.



The toolbar located in the top left corner contains several menus.



The first group allows you to enable or disable the zoom function. When you select the "100" icon, you can change the zoom level of the screen.



The second group allows you to move the "square" to the preferred location. This group of tools will be accessible when you select the "100" icon.



The third group allows you to navigate the system dashboard by clicking the "Gear" button. Clicking the "Exit" button will log out Webview.

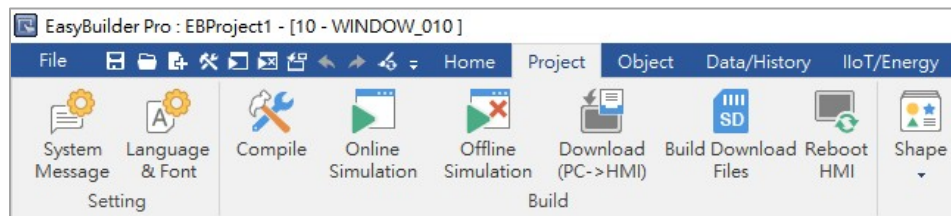


Why won't Webview open?

1. Webview is not enabled on **Webview Setting**.
2. The web browser you're using is not supported by Webview.
3. There are already 4 users accessing Webview simultaneously.

Chapter 5 - How to Load a Project via USB Drive/SD Card (USB Drive >HMI)

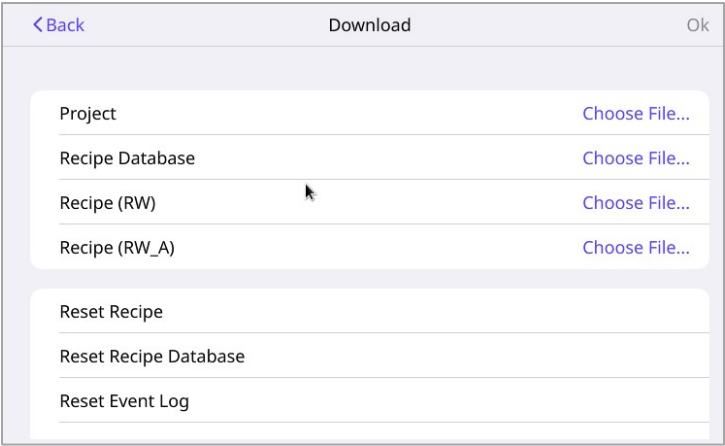
1. Use **Build Download Files** function to build *.cxob file into a USB drive or SD card.



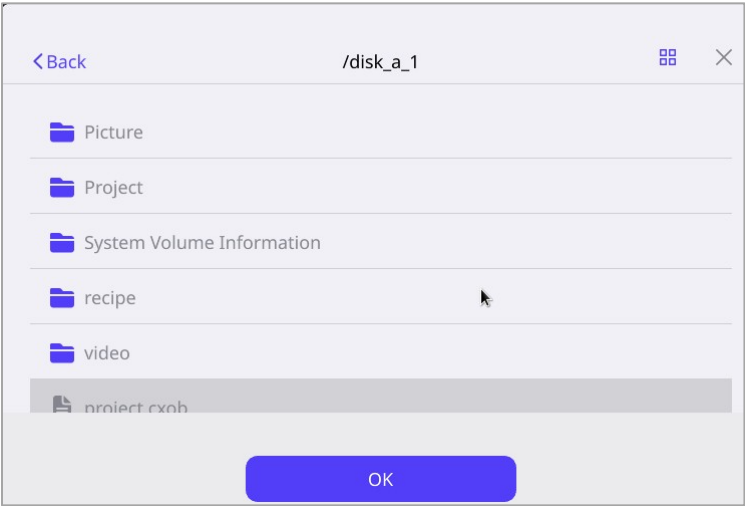
2. Plug the USB drive/SD card into to the corresponding slot of the cMT2000/3000x HMI. When a pop-up window is displayed prompting you to download or upload to your device, click on **Download**.



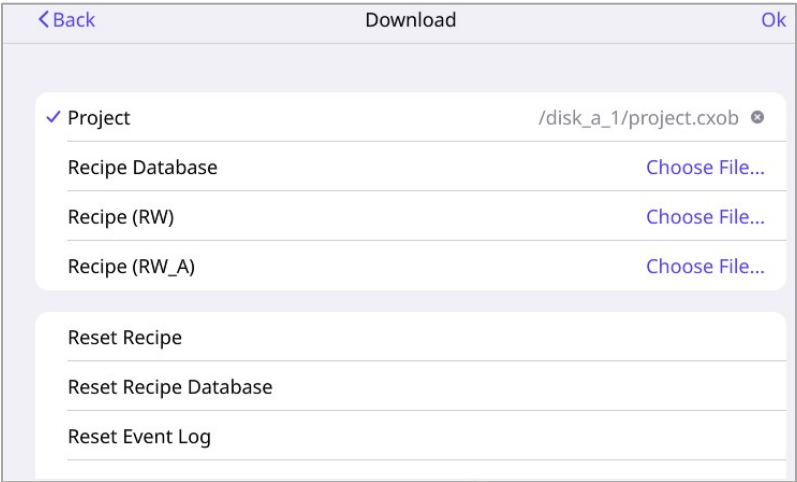
3. Enter the password. The password requires the level of **Update Project** or **Admin**. Then you can select which files you want to load into the HMI.



4. Navigate to the folder containing *.cxob file and select it.



5. Click on **OK** to start. Then wait for a few minutes.

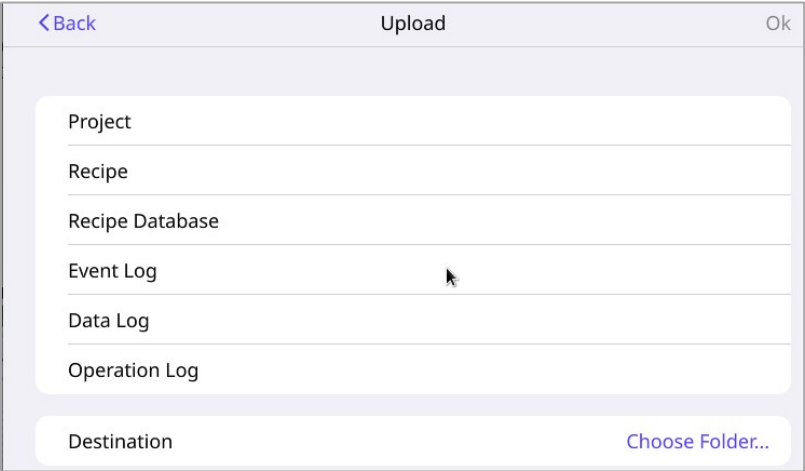


Chapter 6 - How to Retrieve Historical Data via USB Drive/SD Card (HMI-> USB Drive)

- 1. Plug a USB drive or SD card to the corresponding slot of the cMT2000/3000x HMI. A pop-up window will display prompting you to download or upload to your device, and then click on **Upload**.



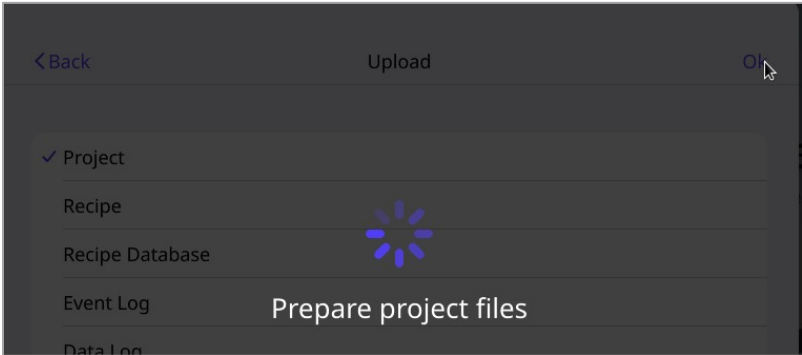
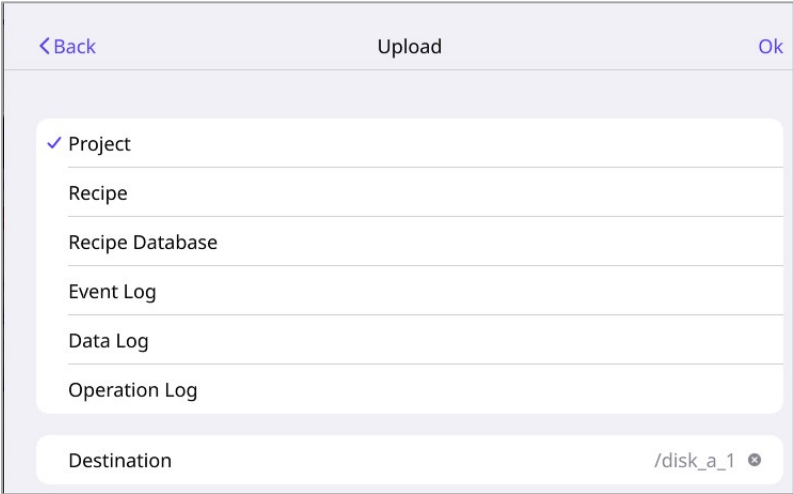
- 2. Enter the password. The password requires the level of **History, Update Project** or **Admin**. Then you can select which files you want to retrieve.



- 3. Specify a folder path for storing historical data.

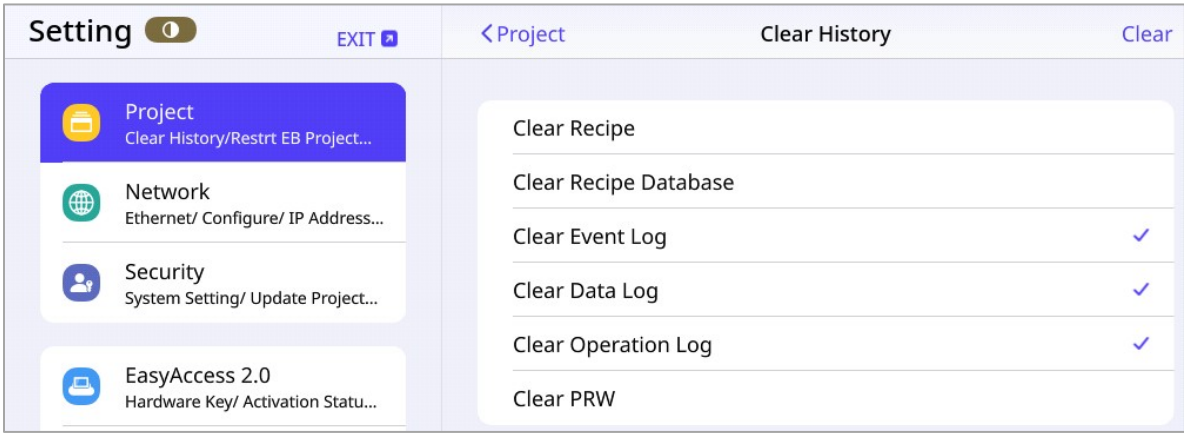


- 4. Click on **OK** to start. Then wait for a few minutes.

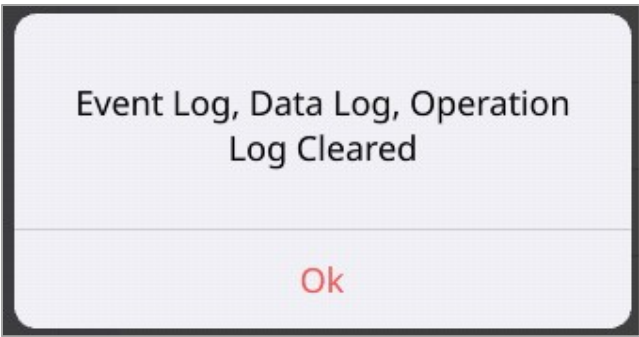


Chapter 7 - How to Delete Historical Data

Go to the Project menu and enter the password to access this menu. Then select which historical data you want to delete.

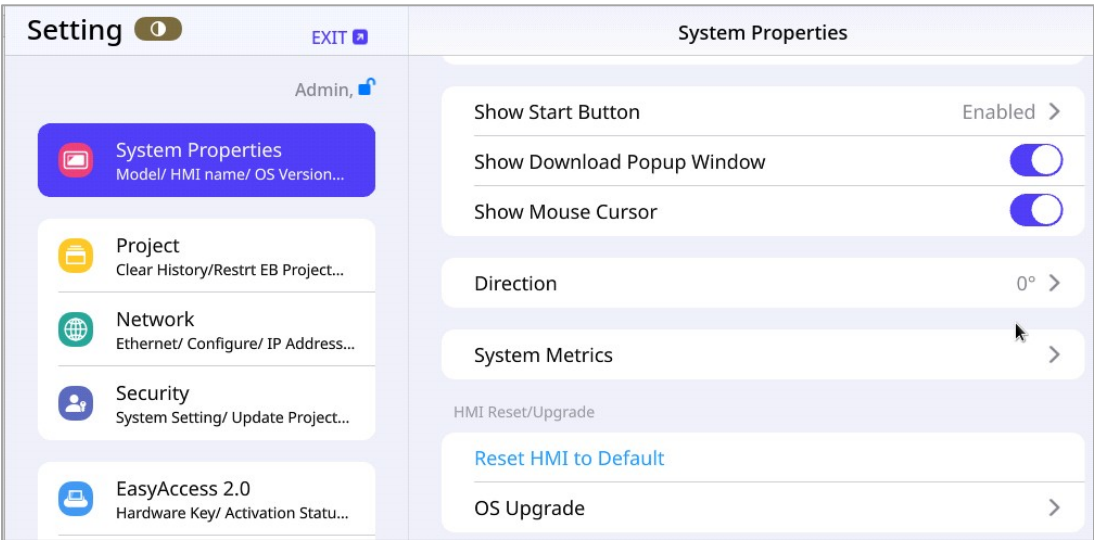


Click on **Clear** and wait for a few minutes. The prompt window will state that the HMI has cleared historical data.

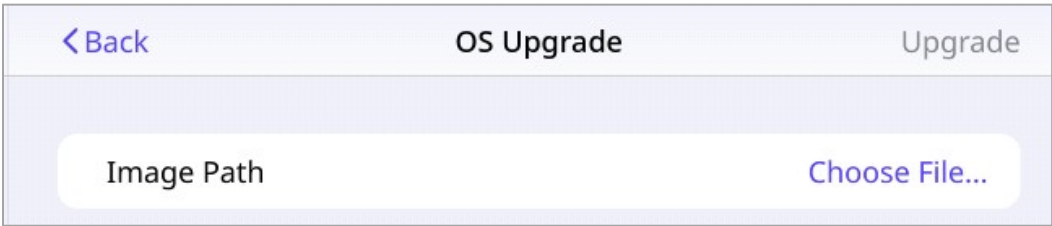


Chapter 8 - OS Upgrade

- 1. Copy the new OS image to a USB drive. The USB drive must be formatted to FAT32 in advance. The OS image is the form of a *.bin file.
- 2. Plug the USB drive into the USB host port of the cMT2000/3000x HMI. If a window pops up and prompts you to download or upload, click close to dismiss it.
- 3. Go to the System Properties menu and find **OS Upgrade**. Enter the password to access this option.



- 4. Click on **Choose File** and navigate to the folder containing the OS image.



- 5. Click **Upgrade** in the top right corner.

< Back

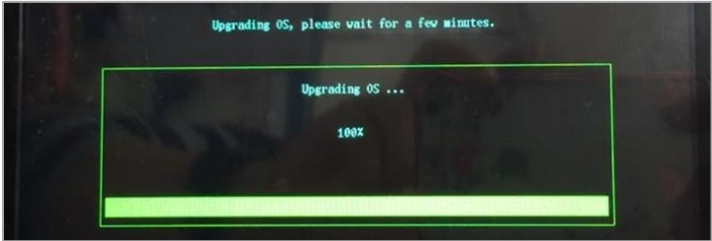
OS Upgrade

Upgrade

Image Path

/disk_a_1/MTfirmware.bin

6. OS upgrade will begin, which may take minutes. Do not unplug the power cord during the OS upgrade. It may result in all data being lost. The progress bar indicates the progress of the OS upgrade. The HMI will reboot automatically when the OS upgrade is completed.



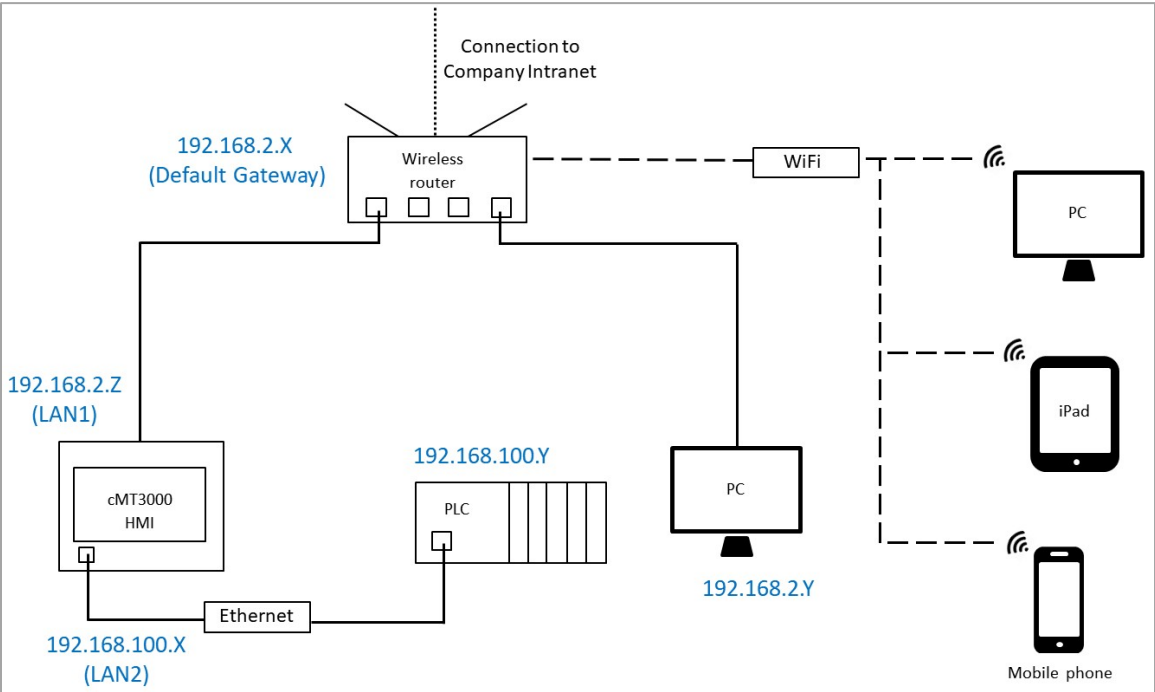
Chapter 9 - cMT-Viewer

cMT-Viewer is a free client application, which can remotely access the screen of the cMT2000/3000x HMI located on the LAN (Local Area Network) via Wi-Fi connectivity or Ethernet cable connection. To use cMT-Viewer you need to download and install the cMT-Viewer App on a mobile device or PC. When the cMT-Viewer App runs on a device and connects to the cMT2000/3000x HMI, only data is exchanged between the device and the cMT2000/3000x HMI. Three client devices can remotely view and control the project of a cMT2000/3000x HMI simultaneously by default.

Supported OS	Where to download	Compatibility
Android phones or tablets	Google Play store	V4.1 or greater
iOS devices	App Store	V6 or greater
Windows PC	Maple Systems' official website (Stand-alone App. or EBPro)	Windows 7 or Windows 10

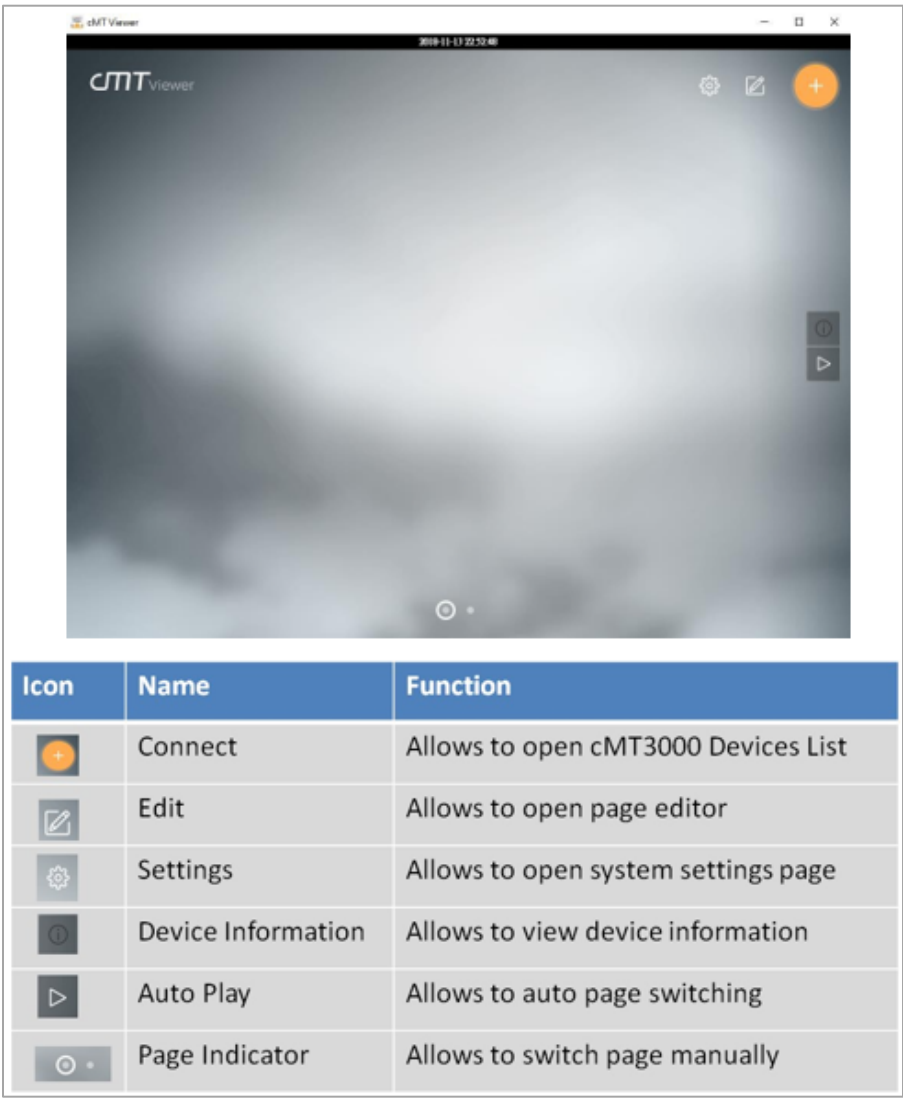
Note: *cMT-Viewer is installed with the EBPro package on a PC. To find it, launch the Utility Manager > Select cMT Series model > Maintenance tab > cMT-Viewer.*

Typical Application Diagram



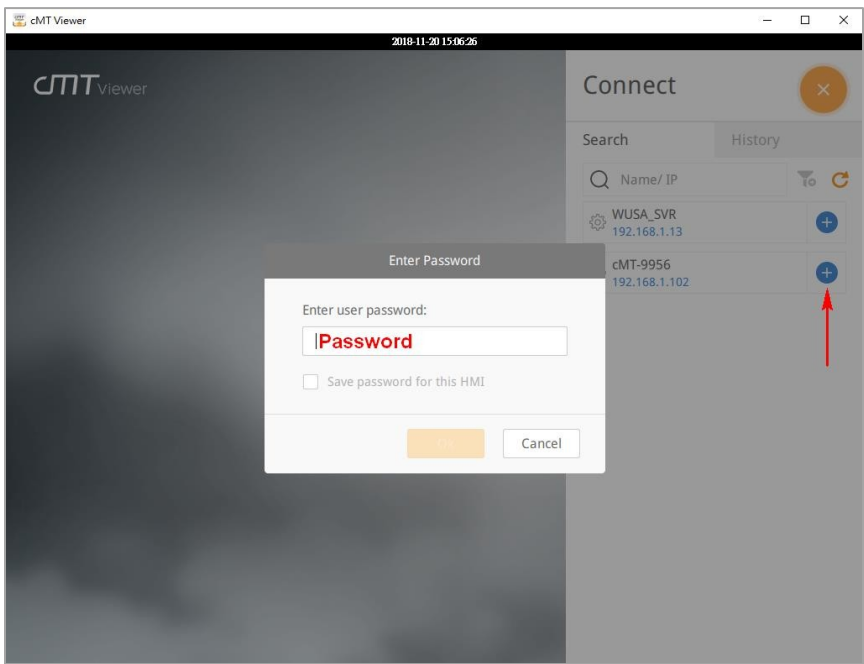
cMT-Viewer App Interface

Some operation options of the cMT-Viewer App opened on different operating systems may vary. This document discusses how to operate the cMT-Viewer App running on a PC. First, launch cMT-Viewer App.

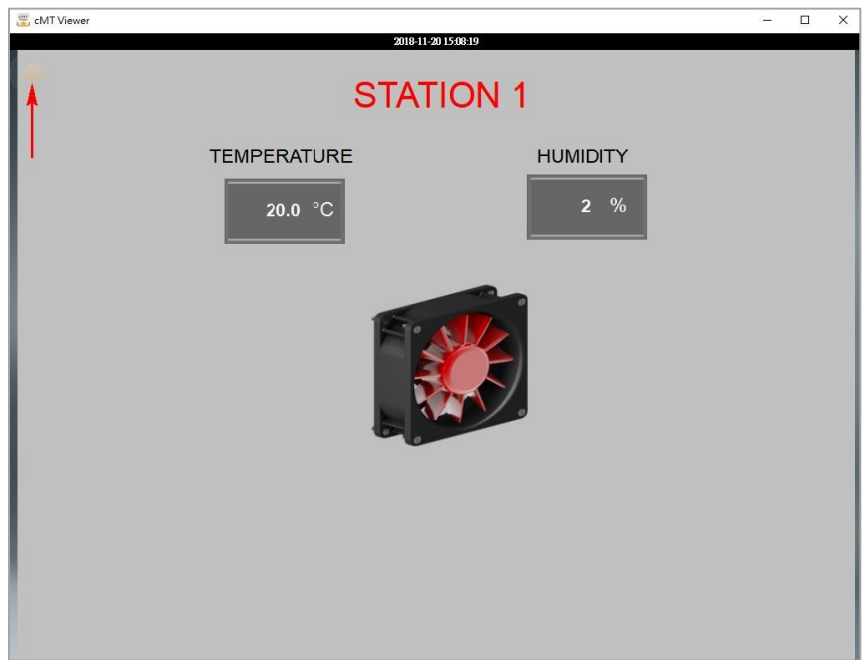


Note: In this demonstration, version 2.6.38 of cMT-Viewer is used. The edit, Auto Play, and Page Indicator icons are only present when “Monitor Mode” functionality is enabled in the **Settings** page.

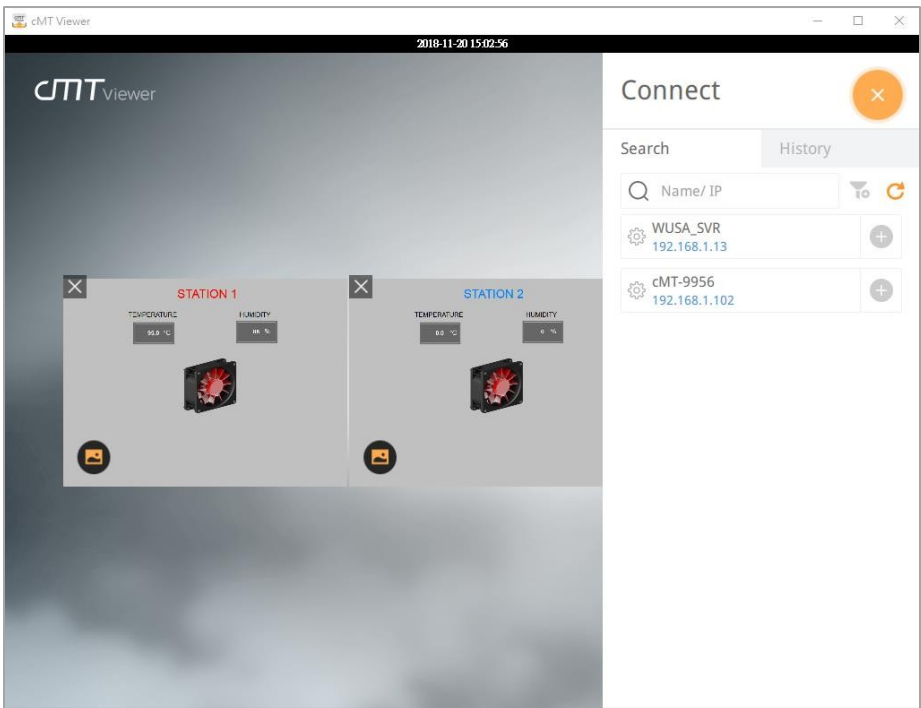
Connect Menu - Click the Connect button and search for cMT2000/3000x HMIs in the **Search** tab. The available cMT2000/3000x HMIs will be shown as below when they exist on your local network. Tap an Add icon on the desired cMT2000/3000x HMI, and it will bring up a window requiring a password.



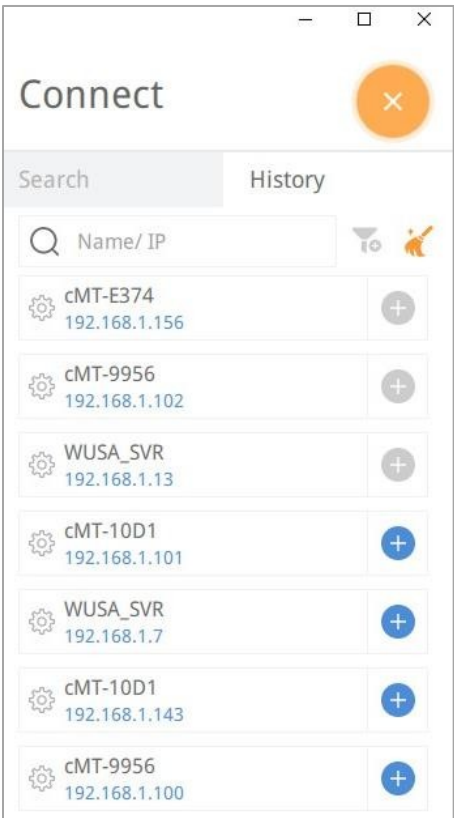
After that, the corresponding project will be loaded. If you want to go back to Connect menu, click on the Start (Home) button at the upper left corner.



Add a second project to the cMT-viewer App to switch and view different projects. The small pictures of the images shown below are cMT2000/3000x projects before leaving the projects.



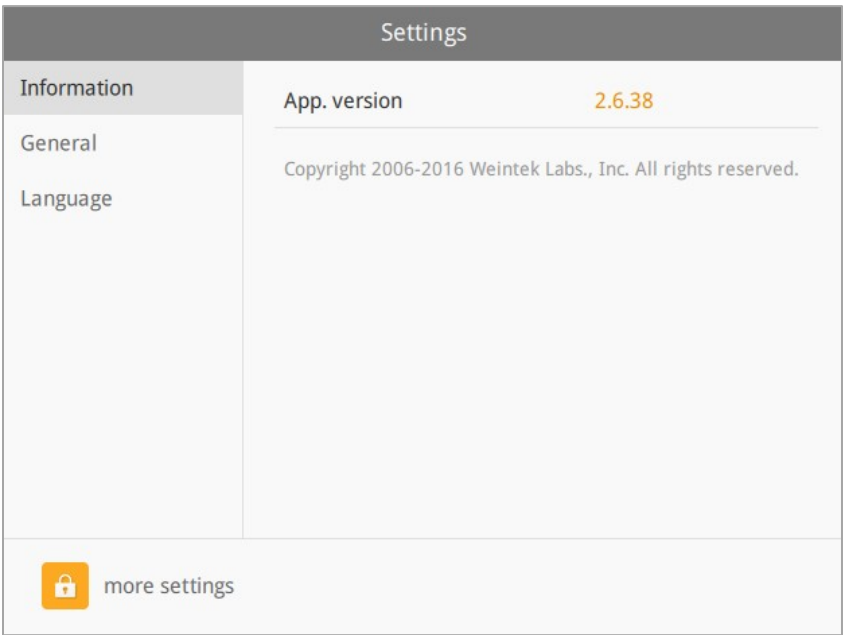
On the **History** tab, you can connect the recently accessed projects. If the cMT2000/3000x HMIs are configured to DHCP, the history records may not be able anymore since the IP addresses are dynamic. Click "clear" button to delete history records if needed. The "gear" buttons nearby each cMT2000/3000x HMI will open its web interface, allowing you to change the settings of the cMT2000/3000x HMI.



Settings Menu

Information tab

Displays the current version of the cMT-Viewer application.



General tab

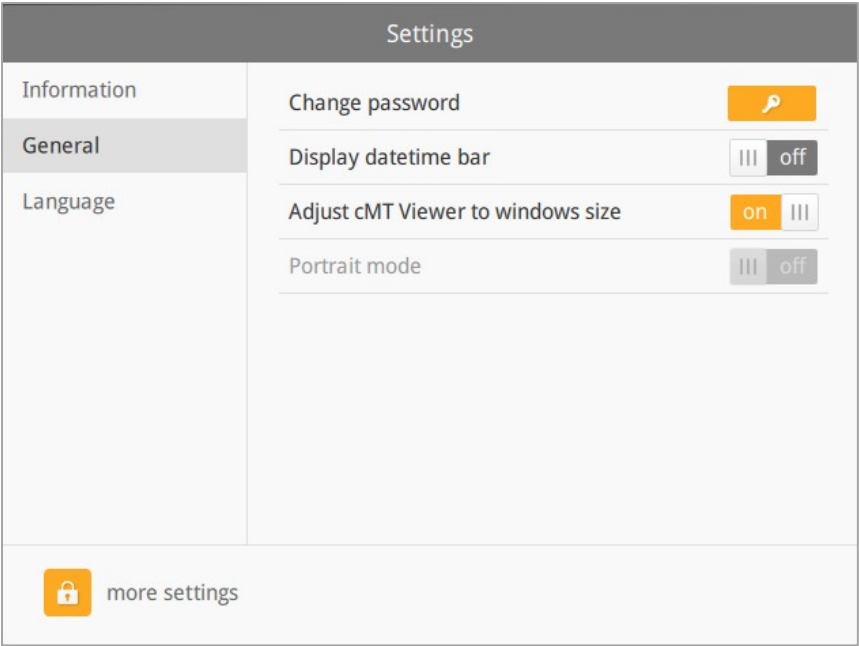
Provides general settings.

Change password - Allows users to change the password of “more settings” at the bottom left corner.

Display datetime bar - Determines if the time bar will be displayed at the top of cMT-Viewer application.

Adjust CMT Viewer to windows size - Adjusts cMT-Viewer to fit the window when users maximize the window of cMT Viewer App.

Portrait mode- Allows you to switch cMT Viewer to Portrait mode.

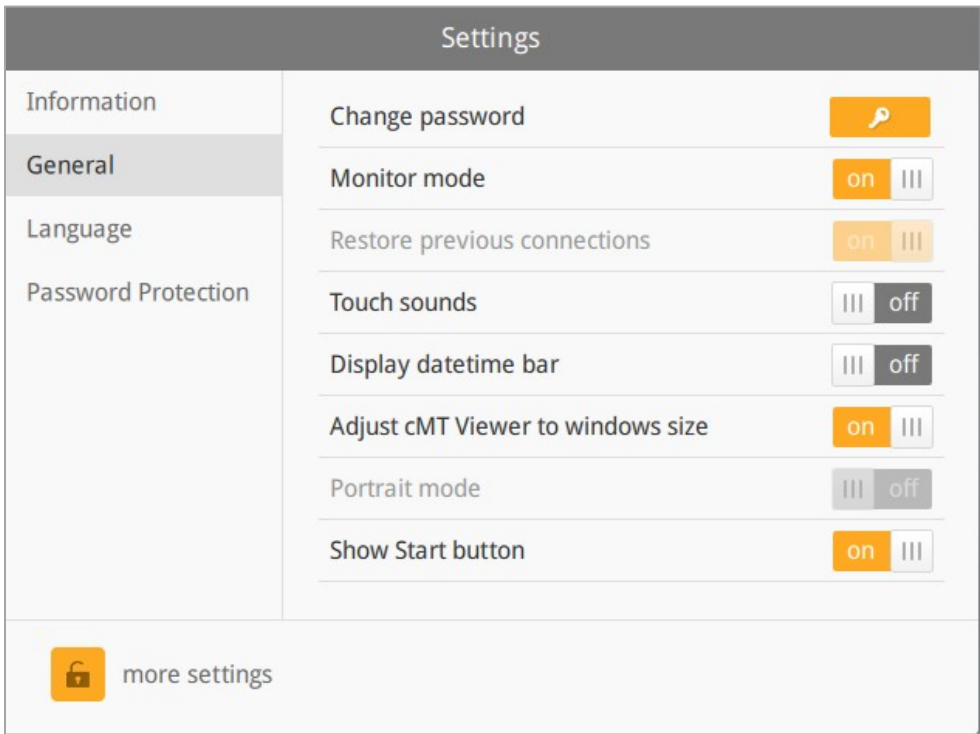


Language tab

Select a language for cMT-Viewer menus. The language selected on the project of the cMT2000/3000x HMI won't be changed by this setting.

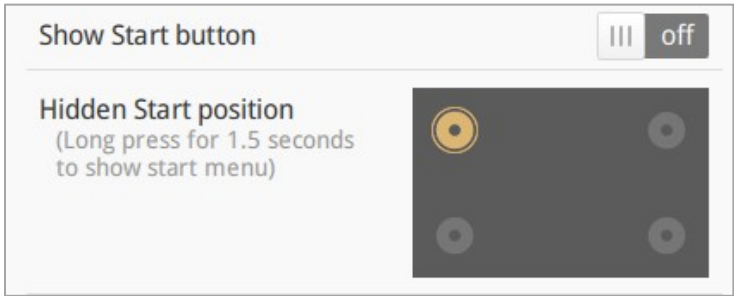


To enable Monitor Mode and use Password Protection functionalities, click on "more settings" icon and log in with the password set on "Change password." The default password is 111111. There are more options available on the **General** tab and the **Password Protection** tab.



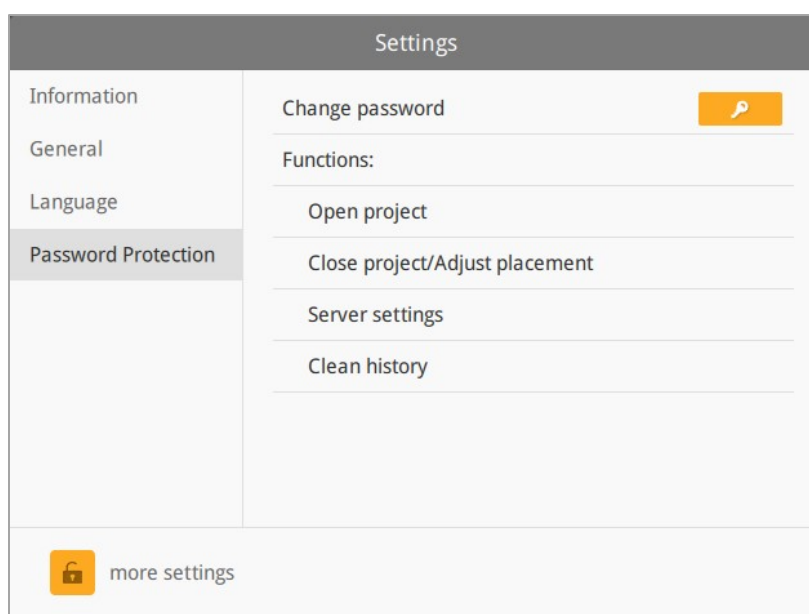
Monitor mode - Allows you to display multiple projects on cMT-Viewer and show important real-time data for the projects of each cMT2000/3000x HMIs.

Show Start button - If disabled, the "Home" icon on the project will be hidden.

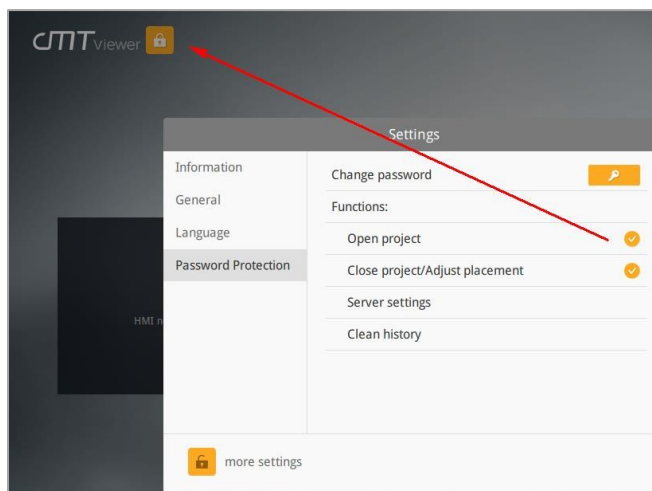


Password Protection - Accessing the *protected actions* will require a password if actions are selected below. Specify a password on **Change password** of this page.

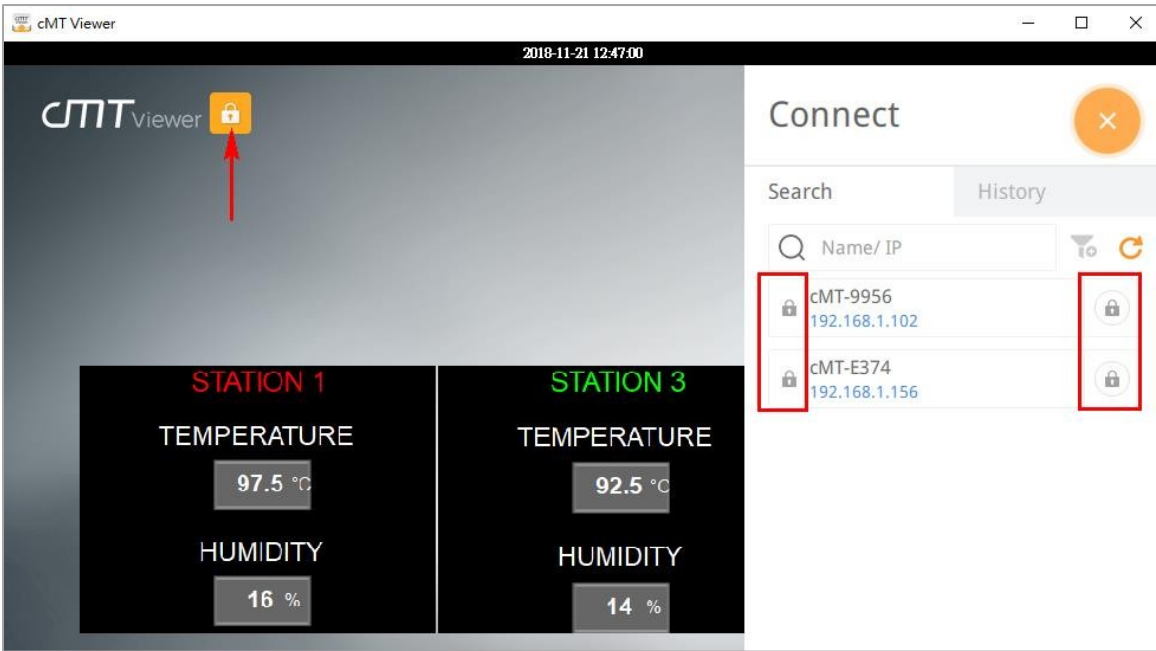
- Open Project: The action to connect to cMT2000/3000x HMI and load its project.
- Close Project: The action to close projects on cMT-Viewer.
- Server Settings: The action to go to web interface of cMT2000/3000x HMIs.
- Clear History: The action to clear recently accessed projects on the History tab of the Connect menu.



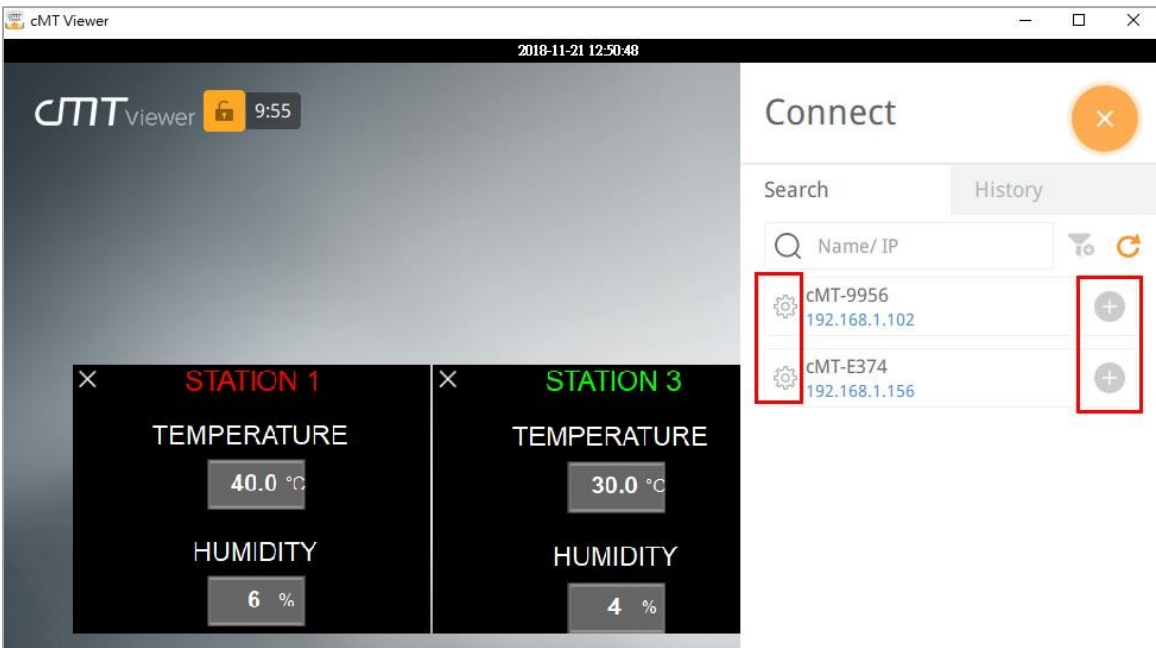
When selecting actions, the Password Protect icon will be present.



In Password Protection mode, *protected actions* are locked. To access them, click on the Password Protect icon and enter the corresponding password.

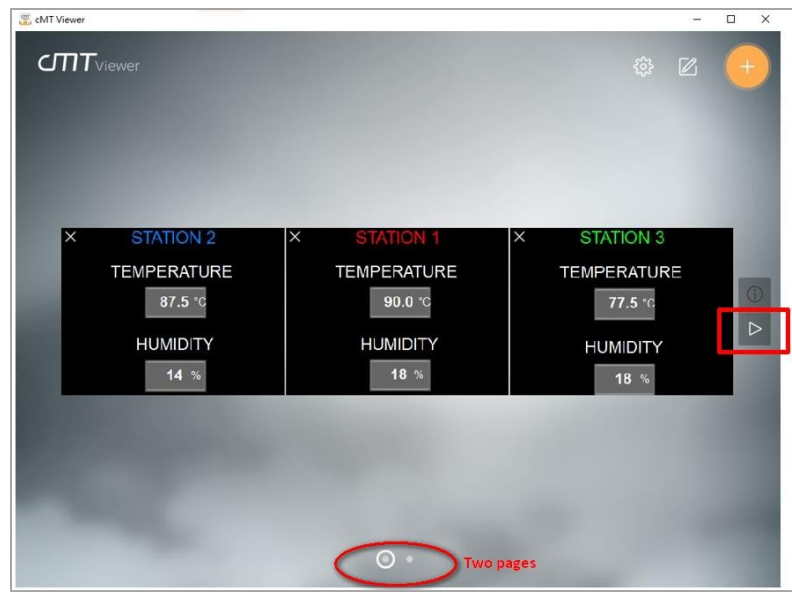


The *protected actions* are accessible to users with knowledge of assigned password. There is a countdown timer displayed as shown below. When the time runs out, the Password Protection mode will be activated.

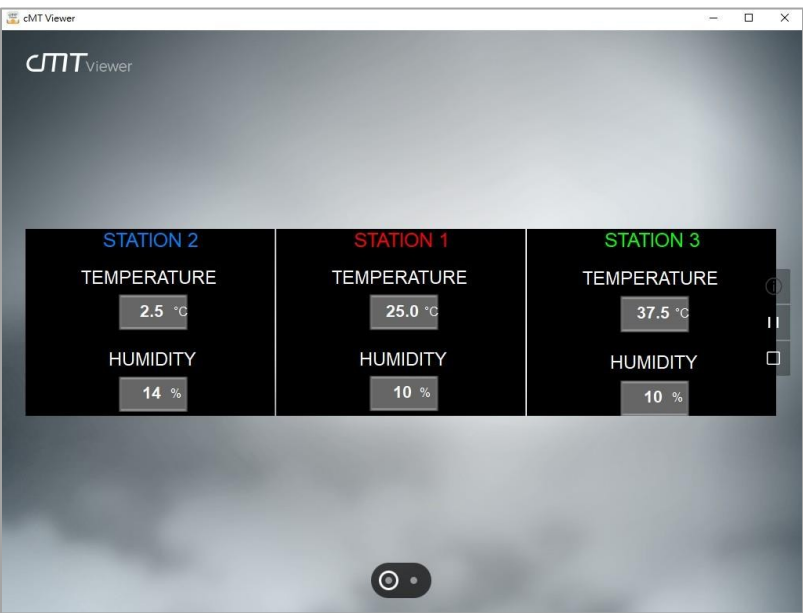


Chapter 10 - Monitor Mode

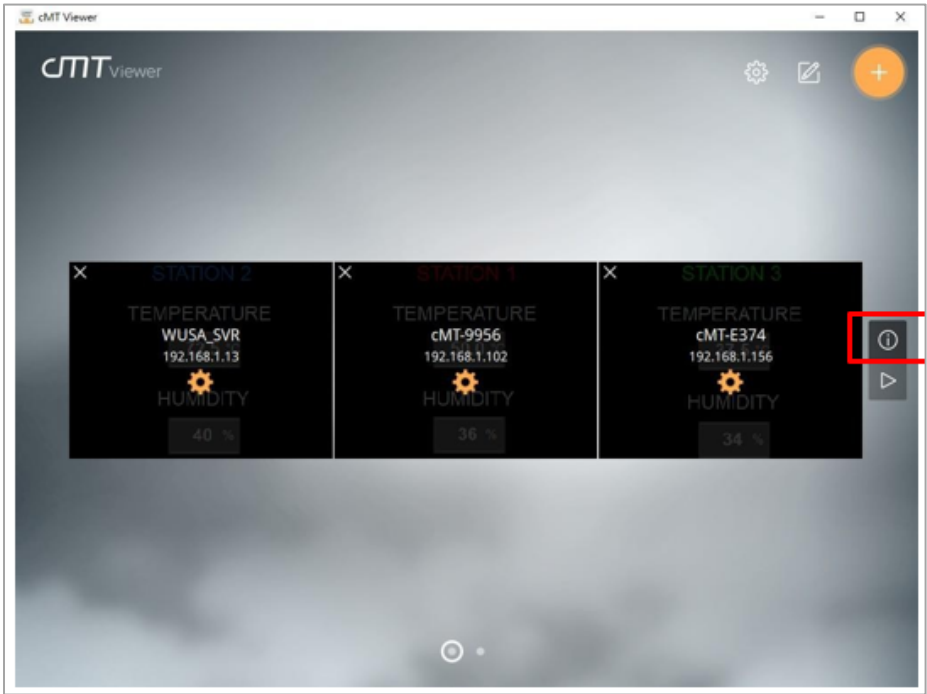
The small images of the cMT2000/3000x project as shown below will be updated automatically, so users will see the latest data without entering each cMT2000/3000x project. Click on the Auto Play button. cMT-Viewer will automatically go to the next page.



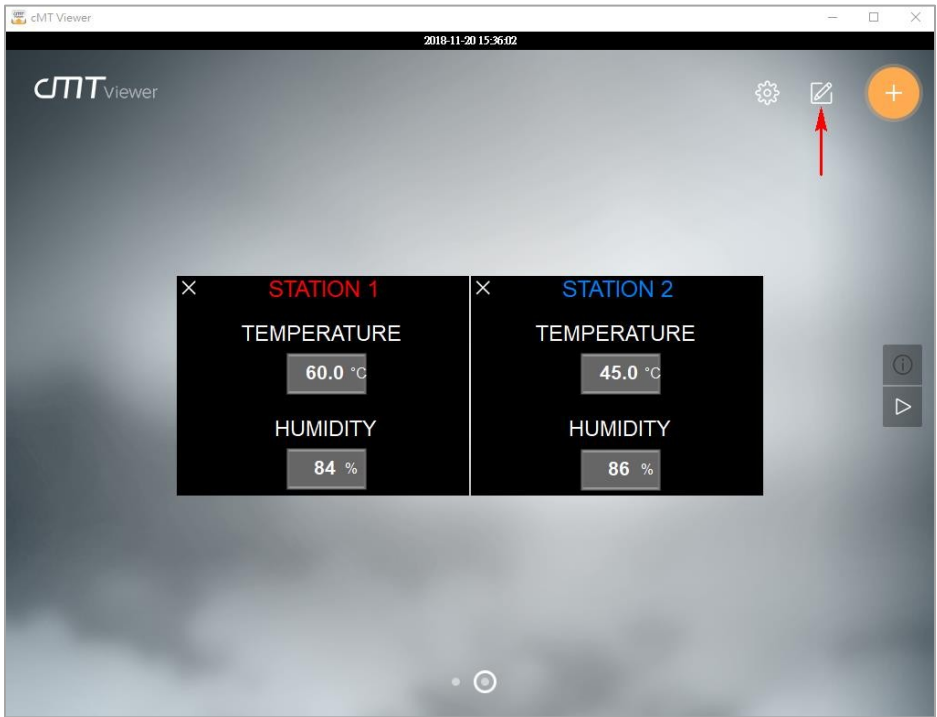
To pause Auto Play mode, click the Pause button highlighted in red. To leave Auto Play mode, click the Stop button highlighted in orange.



When clicking on the Device Information button, the names of each cMT2000/3000x HMI, as well as their IP address, will be displayed as shown below. Tap the "Gear" (Setup) buttons to go to the web interface of each cMT2000/3000x HMI.



Click the Edit button to configure the page layout.



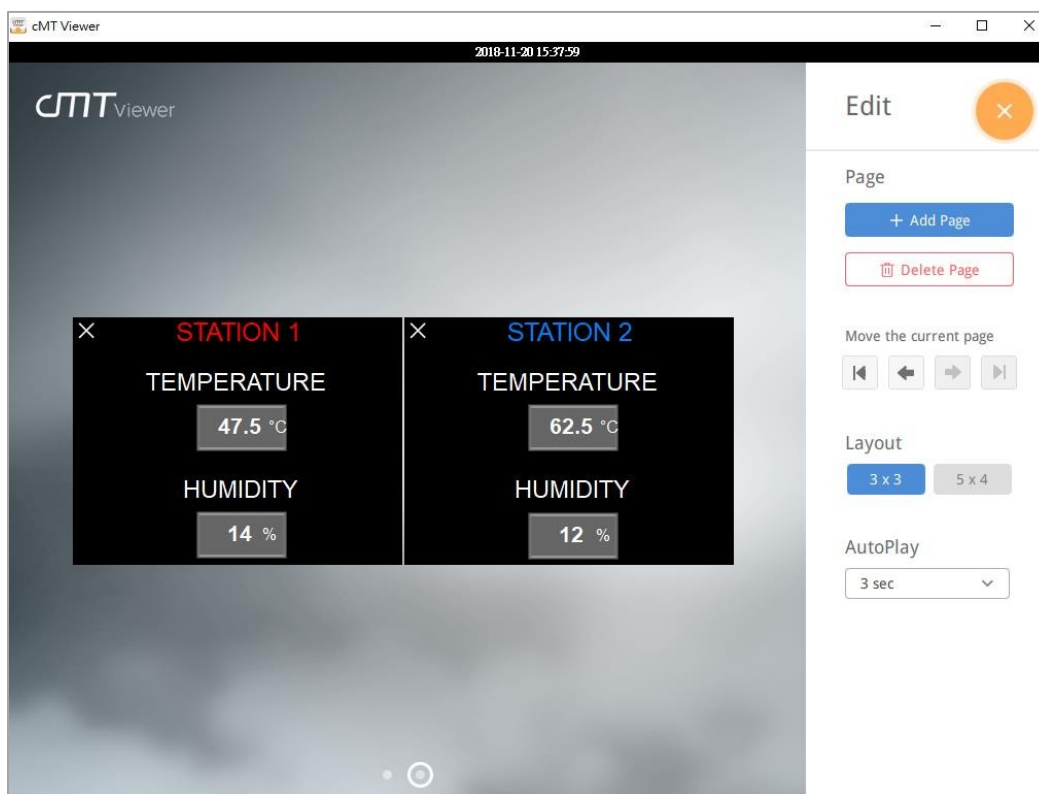
Edit Menu

Page - Click the Add button to create a new page or delete the current page with the Delete button. Up to 9 pages can be created in each instance of cMT-Viewer.

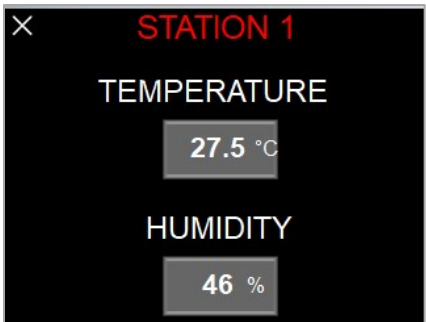
Move the current page - Switch to the first page, the previous page, the next page, or the last page.

Layout - Set up the maximum number of projects in each page. It provides 3x3(9) format and 5x4(20) format.

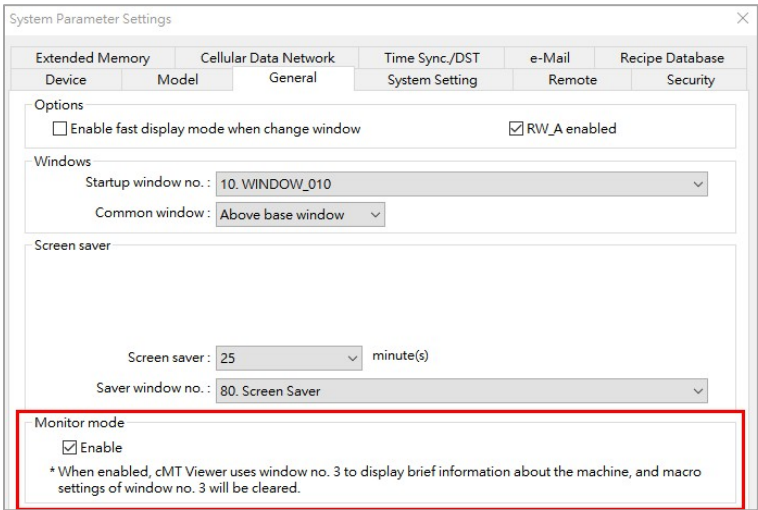
AutoPlay - Set up the time interval for Auto Play mode to go to the next page after the given time interval.



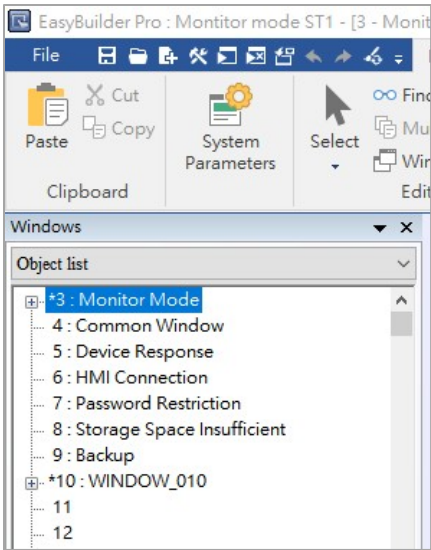
Note: To show real-time data for the project of a cMT2000/3000x HMI like below, you must enable Monitor Mode in EBPro and create a screen for visualization. Here are steps to configure.



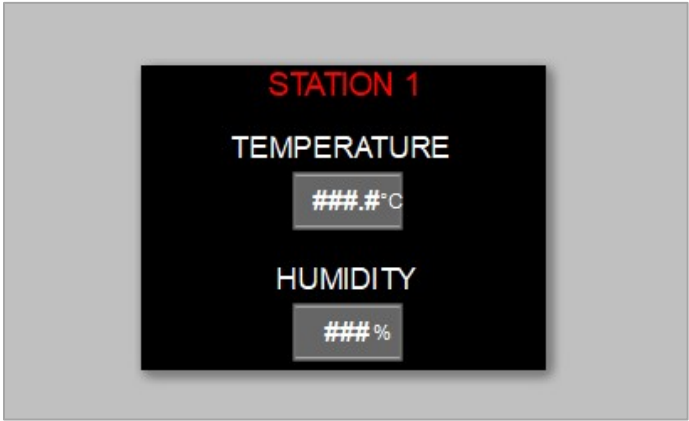
- 1. Launch EBPro software v6.01.01 or greater.
- 2. Create a project of cMT2000/3000x HMI.
- 3. Go to the **Home** tab > **System Parameters**.
- 4. In the **System Parameters**, click on **General** tab.
- 5. Enable Monitor Mode checkbox. This option is turned off by default.



- 6. Close **System Parameters** settings. Open the window no.3, titled Monitor Mode.



- 7. Place Text object, Bit Lamp object, Word Lamp object, Numeric Display object, ASCII Display object, Bar Graph object or Alarm Display object to show up-to-date data on this screen, so you can see the data shown and updated on the cMT-Viewer App while in monitor mode.



- 8. Download this project to a cMT2000/3000x HMI.

Chapter 11 - cMT-Viewer Limitations

Feature Limitation

Some features do not work on a cMT Viewer client (PC, iOS, Android, cMT-iV5), even if they work on the local cMT HMI. Take this into consideration when programming projects.

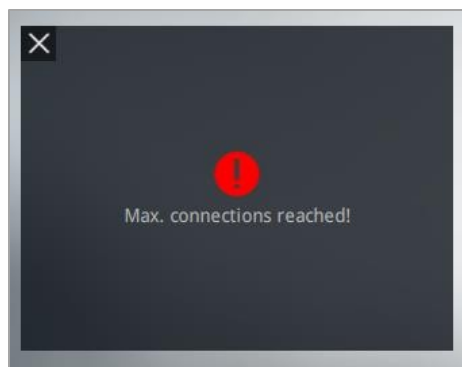
Features (Objects) that do not work remotely on the cMT Viewer application:

- File Browser
- Media Player
- Video In: USB Camera
- Video In: IP Camera
- Video In: Video Input (analog)
- Picture View
- PDF Reader
- VNC Viewer
- Select features of Function Key: Screen hardcopy, Import user data/USB Security Key
- Selected features of PLC Control
 - Screen hardcopy: Files are saved in the external drive on HMI
 - Backlight: Backlight control of HMI screen
- Selected features of Operation Log
 - Operation Log printing: Logs are saved in the external drive on HMI

The above objects won't be displayed on a cMT Viewer App but can be accessed via a VNC client or **Webview**.

Maximum Connect Count

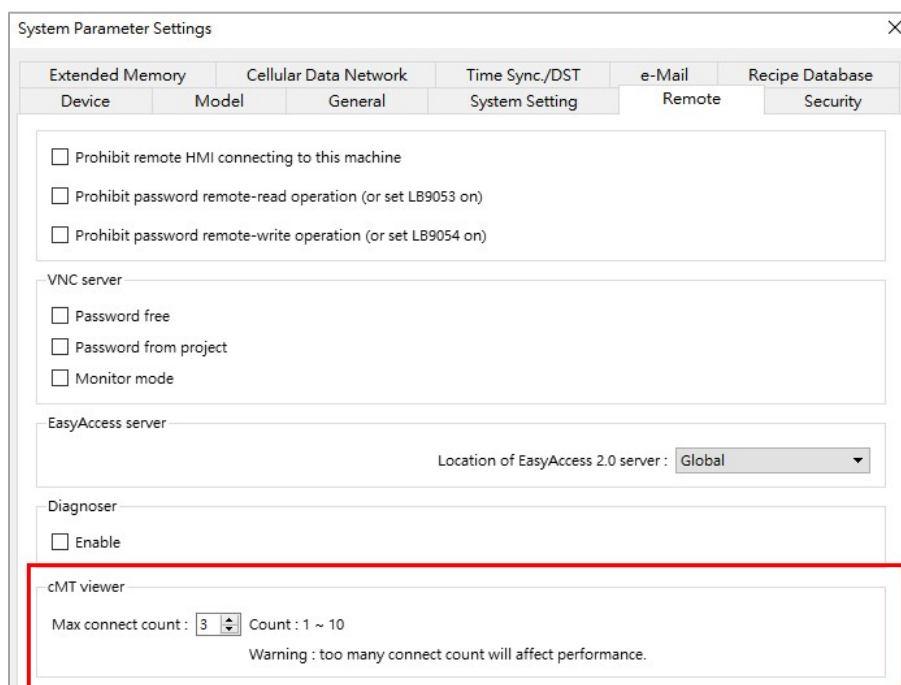
Three cMT-Viewer clients are allowed to remotely view and control the project of a cMT2000/3000x HMI simultaneously by default. When the fourth cMT-Viewer client connects to the cMT2000/3000x HMI, the message below will pop up and reject the connection.



The maximum capacity of cMT-Viewer clients can be adjusted in EBPro software:

1. Launch EBPro v6.01.01 or greater.
2. Go to the **Home** tab > **System Parameters**.
3. Click on the **Remote** tab.
4. Within cMT-Viewer, set up the number of cMT-Viewer max connections. Up to 10 cMT-Viewer clients are allowed to connect to one cMT2000/3000x HMI.

Warning: Allowing a number of cMT-Viewer connections up to 4 or over will affect HMI performance. Take this into consideration when programming projects.



Chapter 12 - cMT2000/3000x HMI Gestures

Operation

Tap: This is the most common gesture. Briefly touch the HMI screen with your fingertip.

Drag: Move fingertip over HMI screen without losing contact.

Press: Touch HMI screen for extended period.

Pinch: Touch HMI screen with two fingers and bring them closer together.

Spread: Touch HMI screen with two fingers and move them apart.

Gestures may vary when operating projects on different touch screens.

On resistive touch screens:

Gestures	Supported Objects (Features)
Tap	All "Input" objects
Drag (Scroll horizontally, scroll up, and scroll down on the object to view more data)	Data log: Trend Display, History Data Display Event log: Event Display, Event Bar Chart(Gantt) Operation log: Operation Log View Recipe: Recipe View SQL: SQL Query Result Viewer Others: Option-List, Data Block Display
Press	This gesture can be configured on the property of the object in HMI program if needed.

On capacitive touch screens:

Gestures	Supported Objects (Features)
Tap	All "Input" objects ¹
Drag (Scroll horizontally, scroll up, and scroll down on the object to view more data)	Data log: Trend Display, History Data Display Event log: Event Display, Event Bar Chart(Gantt) Operation log: Operation Log View Recipe: Recipe View SQL: SQL Query Result Viewer Others: Option-List, Data Block Display
Press	This gesture can be configured on the property of the object in HMI program if needed.
Pinch	Data log: Trend Display
Spread	Data log: Trend Display

¹Input objects refer to objects that allow operators to open a window or pop-up window, press a button to turn a bit ON/OFF, or enter a value to a word register.

Note: For more information about *Press*, refer to section 10.5, *Object Security Settings*, in the EBPro user manual and see "Min. press time (Sec)."

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