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User Manual

Utility Manager- cMT Series

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1. Overview

The Utility Manager is an application that is used to launch or HMI programming software **Easybuilder pro** and other useful applications. This document introduces applications that are available with cMT HMIs.

- 1. Launch Utility Manager.
- 2. Select Model menu. Click on the upper left corner of Utility Manager, select [cMT Series] menu.



3. Utility Manager will list the available applications for cMT HMIs.



Design menu-

- Easybuilder pro: This is the HMI programming software. Open this application to create or edit projects for cMT HMIs.
- EasyAddressViewer: This application lists the supported addresses for the PLCs and controllers. Programmers can refer to the lists and determine if the desired addresses are supported in this version of Easybuilder pro. It recommends that programmers understand what the address format looks like before beginning projects.
- Simulation: This application can simulate an HMI project on a PC with real testing (Onlinesimulation) or non-real testing (Offline-simulation). This way, users don't need to load the project to cMT HMI.

Analysis & Testing menu-

- EasyWatch: This application allows users to create a table that monitors data in cMT HMIs and PLCs that are connected to the HMI via Ethernet connection.
- cMT Diagnoser: This application can be used to troubleshoot communication issues.
- Reboot: This application can restart a HMI via Ethernet or USB connection.
- Serial pass-through: This application allows the PC application to communicate to the PLC through the cMT HMI. In this case, the HMI acts as an adapter.
- Ethernet pass-through: This application allows the PC application to communicate to the PLC through the cMT HMI. In this case, the HMI acts as an ethernet adapter.

Publish menu-

- Download: This application can load a project, runtime, recipe, and startup screen image to a cMT HMI via Ethernet or USB connection.
- Upload: This application can retrieve the project of a cMT HMI and historical data stored in the cMT HMI.

Maintenance menu-

- Administrator Tool: This application can build data for [User Account], [USB Security Key], [SMTP Server Setting], and [e-Mail Contacts] to a USB drive.
- cMT-Viewer: This application can connect to a cMT HMI to view and control the HMI.
- cMT-iV5/ iV6 OS Upgrade: This application can update the OS of cMT-iV5 and cMT-iV6.
- cMT-Server OS Upgrade: This application can update the OS of cMT-SVR-100 and cMT-SVR-200
- Codesys Firmware Upgrade: This application can update the firmware of Codesys HMI.

Data Conversion menu-

- Recipe Database Editor: This application allows users to edit a recipe database (*.db file) without modifying the cMT HMI project itself.
- EasyConverter: This application can convert data log files (*.db) and event log files (*.db) to CSV format files (*.csv).
- Recipe Editor: This application can allows users to edit recipe data stored in **RW** and **RW_A** retentive memory, as well as data stored in **EM** extended memory.

Utilities	Non-cMT Models	cMT Models	cMT Gateway (cMT-Gxx, cMT-CTRL01)
Easybuilder pro	V	V	V
EasyAddressViewer	V	V	V
Simulation	V	V	V
EasyWatch	V	V	V
cMT Diagnoser		V	V
Reboot	V	V	V
Serial pass-through	V	V	V
Ethernet pass-through		V	V
Download	V	V	V
Upload	V	V	V
EasyPrinter	V		
Administrator Tool	V	V	V
cMT-Viewer		V	
cMT-iV5/ iV6 OS Upgrade		V	
cMT-Server OS Upgrade		V	
Codesys Firmware Upgrade		V	V
Recipe Database Editor	V	V	V
EasyConverter	V	V	V
Recipe Editor	V	V	V
EasySystemSetting	V	V	

2. Easy Address Viewer

- 1. Launch Easy Address Viewer
- 2. Select a communication driver from the drop-down list.
- 3. View address type, memory format, and memory range.

Device name :	Rockwe	EtherNet/IP (DF1)				
	V.2.90, /	ALLEN_BRADLEY_EI	P_DF1.xx (DRIV	/ER ID : 132)		Select a drive
Address type	Bit/Word	Address format	Max. address	Min. address	Max. read/write sizes	Description
11	Bit	DDDdd	25515	0	32/32	dd : bit no. (00 ~ 15)
00	Bit	DDDdd	25515	0	32/32	dd : bit no. (00 ~ 15)
l1n_Bit	Bit	SSEEdd (SS.EE.dd)	303115	0	32/32	SS : slot (0 ~ 30), EE : sub element (0 ~ 31), do
O0n_Bit	Bit	SSEEdd (SS.EE.dd)	303115	0	32/32	SS : slot (0 ~ 30), EE : sub element (0 ~ 31), do
B3	Bit	DDDdd	25515	0	32/32	dd : bit no. (00 ~ 15)
S_Bit	Bit	DDDDDDdd	25525515	0	64/32	dd : bit no. (00 ~ 15)
Lfn_Bit	Bit	FFFDDDdd	25525531	0	32/32	FFF : file no. (0 ~ 255), DDD : element no. (0 ~
Bfn	Bit	FFFDDDdd	25525515	0	32/32	FFF : file no. (0 ~ 255), DDD : element no. (0 ~
NfnBit	Bit	FFFDDDdd	25599915	0	120/100	FFF : file no. (0 ~ 255), DDD : element no. (0 ~
l1n	Word	SSEE (SS.EE)	3031	0	32/32	SS : slot (0 ~ 30), EE : sub element (0 ~ 31)
O0n	Word	SSEE (SS.EE)	3031	0	32/32	SS : slot (0 ~ 30), EE : sub element (0 ~ 31)
T4SV	Word	DDD	255	0	40/32	
T4PV	Word	DDD	255	0	40/32	
C5SV	Word	DDD	255	0	32/32	
C5PV	Word	DDD	255	0	32/32	
TfnSV	Word	FFFDDD	255255	0	40/32	FFF : file no. (0 ~ 255), DDD : element no. (0 ~
<						>

Note:

1. Memory range may vary based on the controller models.

2. The Easy Address Viewer doesn't display free-tag based PLCs, please refer to the connection guide to get the information.

3. Simulation

- 1. Launch Simulation.
- 2. Click on the "folder" icon and open a compile project (*.cxob)

3. Click on-line simulation or off-line simulation to start simulator. Before starting on-line simulation, make sure the controller already connects to the PC via Ethernet or serial connection.

Simulation	×
Path :	
On-line Simulation	Off-line Simulation

4. cMT-Viewer (simulator) will pop up to simulate the project.

Note:

1. The on-line simulation lasts 10 minutes to simulate the communication between PC and PLCs. Once the time is up, the simulator stops communicating to the PLC.

2. In on-line/off-line simulation, the diagnostic tool "cMT Diagnoser" can be opened via clicking the right mouse button. For more information, please refer to **cMT Diagnoser User Manual**.

			Diagnoser					
\checkmark	Adjust cMT Viewer to windows size		CObject Device Pa					ŝ
	Scale size	Þ	Window 10: WINDOW_010	7.				+ 💼
			Name	Address	Туре	Length	Value	
	Diagnoser		 Global Objects Window 4: Common Window Window 10: WINDOW_010 					
	Exit		 Numeric (1) Siemens S7-1200/S7-1500 Numeric (2) 	PLC.Blocks.Data_block_1.number1	16-bit Unsigned	1	0	
			Siemens 57-1200/57-1500	PLC.Blocks.Data_block_1.number2	16-bit Unsigned	1	0	
			 Numeric (3) Local HMI Numeric (4) 	LW-0	16-bit Unsigned	1	2	
			Local HMI	LW-10	16-bit Unsigned	1	0	
			 Numeric (5) Local HMI Toggle Switch (6) 	LW-1	16-bit Unsigned	1	0	
			Local HMI	LB-10	Bit	1	false	
			 Numeric (7) Local HMI Toggle Switch (8) 	LW-500	16-bit Unsigned	1	0	
			Local HMI Watch	LB-500	Bit	1	false	

4. EasyWatch

EasyWatch allows users to monitor data in the HMI or the PLC via Ethernet from the PC.

- 1. Launch EasyWatch.
- 2. Click on [object] tab» [HMI monitor] or the shortcut button to open HMI Manager.

🔄 Untitled - Eas	yWatch						• ×
<u>F</u> ile <u>E</u> dit O	bjects <u>H</u> elp						
🕒 🍐 💊	1261	el 🕨 🔳 🗶 i 🌌 🤤 🗔] 📲				
New Page	1						▼ X
Name	Status	HMI/PLC	Address	Address Type	Update Cycle	Value	

3. Click on the Add button to add an existing cMT HMI. Enter its IP address and port number.

HMI Manager	×
	Add Modify Remove
HMI Settings	×
IP Name IP: 192.168.1.101	\ \ \
Use Local HMI	HMI Port No. : 8010 V OK Cancel

Note: The port number is configured in EasyBuilder pro» System setting » [Model] tab. Checking "Support... EasyWatch" and configuring a port number to the box are required.

Extended Me	mory	Cellula	r Data Network	Time Sync./DST	e-Mail	l Re	cipe Databas
Device	Mo	del	General	System Setting	Ren	note	Security
HN	/II model :	cMT309	0 (1024 x 768)		\sim	Landscape	• ~
HMI sta	ation no. :	0	~				
HMI sta	ation no. : Port no. :	0	~				
HMI st	ation no. : Port no. :	0 8000	~				
HMI st.	ation no. : Port no. :	0 8000	~				
HMI st	ation no. : Port no. :	0 8000		HMI communication pr	to col and	FacilMatch	

4. After clicking OK button, the HMI will be listed in HMI Manger. Repeat the step 3 to add multiple cMT HMIs. Click Exit button to close the window.

MI Manager	>
192. 168. 1.85 (80 10)	Add Modify Remove
	Kemove
	Help
	Exit

5. Click on [objects] tab» [Add object] » [Add Monitor] or the shortcut button to open Monitor settings.



6. Configure Monitor Settings, as shown below.

Name: Give a name.

HMI: Select the HMI.

Device: Select the communication driver. Enter its IP address for Ethernet connection or com parameters for serial connection.

Address: Enter the address to monitor.

Address Mode: Select the data type of the address.

Update cycle: Select the update rate of the data.

Click OK button to confirm.

Repeat this step for each register or bit data you want to monitor.

Monitor Settings	X
Name : PV	Read Only
HMI 192 168 1 85 (9010)	Open HMI Manager
Device	
Rockwell EtherNet/IP (DF1)	Station No. : 0
I/F Setting	Ethernet : 192.168.1.200
Address	
Address : N7 10 Address Format : DDD [range : 0 ~ 255] 10	
C Address Mode	
OBit	16-bit BCD ^ 32-bit BCD 16-bit HEX 32-bit HEX
Numeric String No. of Word : 1	16-bit Binary 32-bit Binary 16-bit Unsigned
Update Cycle : 2500 ms 🗸	Ok Cancel Help

7. Select the data from the below list and then click on the Run button to start monitor. The data will be displayed on Value column. If needing to stop monitor, click on the Stop button.



8. To save this EasyWatch project, Click on [File] » [Save as].

Note:

1.When the system register [LB-9044 (disable remote control)] or [System Parameter Settings] » [System Setting] » [Prohibit remote HMI connecting to this machine] is enabled, the feature of monitoring in EasyWatch will be unavailable.

5. Reboot

It can reboot cMT HMIs without unplugging. After reboot, cMT HMIs return to the initial state.

1. Launch Reboot.

2. Select Ethernet connection or USB connection. Some cMT models are not equipped with USB client port, so the USB connection is not available in these models.

3. On [HMI Name] tab, click on Select All button. This application will scan cMT HMIs existing in this local network.

4. Select the HMI you want to reboot and then click Reboot button.

Reboot	×
Connection	
Ethernet OUSB cable	
d IP HMI Name	Þ
HMI : cMT-10D1 Search Search All Search and Change IP	
Password : 1111111 Mask	
	Reboot

6. Pass-through

The pass-through function allows the PC to communicate to the PLC through the HMI, without disconnecting the PLC from the HMI. In this case, the HMI acts as an adapter.



6.1. Serial Pass-Through

The pass-through function provides two modes when using the Ethernet connection or serial connection from the PC to the HMI.

• Using the Ethernet pass-through (virtual com used by PC) mode:



- 1. Launch Serial Pass-through.
- 2. Select [Ethernet].

Pass-through		×
 Ethernet 	○ COM port	
Virtual COM Po	vrt (PC <-> PLC)	
	СОМЗ	
	Install Uninstall	
Settings of Dest	tination HMI	
	Mode : Normal V	
	IP: 192.168.1.9	
Commun	nication port : 8000 V (Default : 8000)	
Pass-t	through port: 2000 ~	
PLC	C connection : V (LW-9902 on HMI))	
	Apply	
	Exit	

3. When using the Ethernet connection, the virtual serial port driver, which acts as Ethernet-to-Serial bridge, is required to be installed. Click on Install button and follow the pop-up window to install. The Virtual COM port (PC <-> PLC) indicates the virtual COM port used on the PC. The virtual COM port can be changed to another one via the COM ports section of Device Manger on the PC.

4. Settings of Destination HMI.

Mode: Set the mode to Normal for most PLCs. MPI ISOTPC is used for Siemens MPI connection. IP: Enter the IP address of the HMI.

Communication port: Select the TCP Port. This parameter is configured in Easybuilder pro» [System Parameters] » [Model] tab.

Pass-through port: Default port number is 2000.

PLC connection: Set the COM port on the HMI that is connected to the PLC. (COM1, COM2, or COM3)

5. Click Apply button to confirm the setting and begin the pass-through mode.

6. Launch the PLC programming software to go online.

• Using the serial pass-through mode:



[Source COM Port] is the port that connects HMI to PC. [Destination COM Port] is the port that connects HMI to PLC.

1. Launch Serial Pass-through.

2. Select [COM port].

Pass-through				×
○ Ethernet	● COM port			
HMI IP :	192.168.1.200 Get HMI Communication	Parameters	× 3	
ŀ	IMI work mode : Unknown			
Commun	ication port : 8000	 ✓ (Defau 	ılt : 8000)	
Source COM Po	rt (PC -> HMI)			
	COM 3 ~		RS232 ~	
Baud rate :	9600 ~	Data bits :	7 Bits ~	
Parity:	None ~	Stop bits :	1 Bit ~	
Destination COM	I Port (HMI -> PLC)			
	COM 1 ~		RS232 ~	11
Baud rate :	9600 ~	Data bits :	7 Bits ~	1
Parity :	None ~	Stop bits :	1 Bit ~	
Start Pass-thre	Stop Pass-throug	gh		
			Exit]

3. HMI IP: Enter the IP address of the HMI.

Get HMI communication Parameters: Click this button to read the current communication settings of Source and Destination COM port.

Communication port: Select the TCP Port. This parameter is configured in Easybuilder pro» [System Parameters] » [Model] tab.

The parameters of Source COM port and Destination COM port can be configured manually.

Source COM port (PC -> HMI): Set the COM parameters for the HMI port that is connected to the PC. Destination COM port (HMI-> PLC): Set the COM parameters for the HMI port that is connected to the PLC.

4. Click Start Pass-through button to begin pass-through mode. HMI work mode indicates the current mode of the HMI.

Unknown: The mode is displayed before reading the communication settings of the HMI. Normal: The HMI is set to communicate with PLC and ready to pass through. Pass-through: The HMI is on pass-through mode.

5. Launch the PLC programming software to go online.

6.2. Ethernet Pass-Through

This application allows the PC to communicate to the PLC that is on the different subnet. For example,

PC's IP is 10.1.10.5. LAN1 of the CMT HMI is 10.1.10.19. LAN2 of the CMT HMI is 192.168.1.100. PLC's IP is 192.168.1.112. In this way, PC can program the PLC via this application.



 HMI IP: Enter the LAN1 IP address of the HMI or click on [...] button to scan the CMT HMI. HMI port number: Default port number is 8000.
 Passthrough IP: Enter the IP address of the PLC.

iter the ir address of		
Ethernet Pass-through		×
HMI IP :	10 . 1 . 10 . 19	
HMI port no. :	8000 (Default : 8000)	
Passthrough IP :	192 . 168 . 1 . 112	
Status :	Disconnected Connect	

3. Once clicking [Connect], the communication will be established. The success message as below indicates that you are ready to do pass-through.

Ethernet Pass-through	;
HMI IP :	10 . 1 . 10 . 19
HMI port no. :	8000 (Default : 8000)
Passthrough IP :	192 . 168 . 1 . 112
Status :	Connected Disconnect
Connecting to HMI Creating Ethernet pass-through Successfully created Ethernet pass- Keep Utility Manager open for Ether	<mark>through.</mark> net Pass-through. You may use other Utility Manager tools now.

4. Launch the PLC programming software to go online.

7. Download

This application is used to transfer a compiled project file (.*cxob) to a cMT HMI.

1. Launch Download.

2. Select Ethernet connection or USB connection. Some cMT models are not equipped with USB client port, so the USB connection is not available in these models.

- To download the project file, select the Project checkbox. If this is the first project download to the HMI, the Runtime (Firmware) checkbox must be selected.
 Click on the "Folder" button to the right of the Project checkbox. Navigate to where the *.cxob file is located.
- To download the RW, RW_A, Recipe database, Startup screen, or System settings files, navigate to where the corresponding file is located.

File extension of RW:*.rcpFile extension of RW_A:*.rcpFile extension of Recipe database:*.dbFile extension of Startup screen:*.bmpFile extension of System settings:*.conf

Click on Search All button to scan your HMI. Select the HMI you want to load the project file. Enter the password to the Password box. The default password is 111111.

To erase the files stored in the HMI, select the checkboxes you want to erase.

Click on Download button to begin.

Download (PC->HMI)				×
Connection				
Ethernet USB	cable			
4 IP HMI Name				⊳
HMI: cMT-10D1	~	192.168.1.100 (cMT-1	0D1)	
	Search			
T T	Search All			
Search a	nd Change IP			
Gealch a	nu change n			
✓ Project	C:\Users\timhsieh\C	esktop\HMI Unit Demo Pro	ject\cmt-3090.cxob	
Runtime (firmware)				
RW				
RW_A				
Recipe database				
Startup screen				
Use system settings file				
Delete existing user accounts				
Delete existing e-Mail contacts	and SMTP settings			
Reset recipe (RW, RW_A)	Reset recipe da	atabase	Reset operation log	,
Reset event log	Reset data log	6	Reset string table	
Reset startup screen				
CODESYS				
Project				
Deservered a 111111			Deventeed	E.ch
Passworu :		IASK	Download	EXIT

8. Upload

This application is used to retrieve a compiled project file (.*cxob) stored in a cMT HMI.

1. Launch Upload.

2. Select Ethernet connection or USB connection. Some cMT models are not equipped with USB client port, so the USB connection is not available in these models.

• 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 will be saved. Specify the name of the project file and add the file extension **.cxob**.

Click on Search All button to scan for your HMI. You will need to select an HMI in order to retrieve the project file.

Enter the password to the Password box. The default password is 111111. Click on Upload button to begin.

Upload (HMI->PC)			×
Connection			
Ethernet OUSB cable			
4 IP HMI Name			4
HMI : CMT-10D1 Sea Search and Chan	rch sh All ge IP) (cMT-10D1)	
Project C:\Users\timhsieh\Desktop\cmt-3090.cxob			
History			
Recipe Recipe	database		
Event log Data lo	g 🗌 (Operation log	
Password : 111111	Mask	Upload	Exit

Note:

1 .The cxob file is a compiled project file. To modify the project, use the Decompile tool to extract. (Easybuilder pro» [File] menu » Decompile)

2. If "disable upload function" is enabled within the project, the cxob file won't be allowed to retrieve and will show the message "error: uploading project."

(This option can be found on Easybuilder pro» System Parameters » [System Setting] tab)

connecting HMI and checking password uploading project	
error : uploading project	

• To retrieve historical data or recipe files stored in a cMT HMI, select the boxes within **History** and click on the "Folder" button. Navigate to where the files will be saved. The folder will contain all of the selected files.

Click on Search All button to scan your HMI. You will need to select an HMI in order to retrieve the files.

Enter the password to the Password box. The default password is 111111. Click on Upload button to begin.

Upload (HMI->PC)				×
Connection				
 Ethernet 	O USB cable			
	/I Name			Þ
HMI :	cMT-10D1	✓ 192.168.1.100) (cMT-10D1)	
	Search			
	Search All			
	Search and Change IP			
History		ase		
Event log	☑ Data log		Operation log	
C:\Users\timhsieh\	Desktop\historical_data		٩	
connecting HMI and ch stop HMI Compressing uploading history reset HMI finished	recking password			
Password : 1111	111	Mask	Upload	Exit

9. Administrator Tools

The administrator Tools is a utility that allows you to store data to a USB drive for **User Accounts**, **USB Security Key**, **e-Mail SMTP Server Settings**, and **e-Mail Contacts**. It is a convenient tool to update the data stored in a HMI during runtime. The data built in the USB drive can be loaded into a HMI via Function key object or the cMT web interface.

Launch Administrator Tools.

9.1. User Accounts

The User Accounts is used to update user accounts stored in Enhance Security during runtime.

Configuration

1. Select [User Accounts] checkbox.

2. Use the Add button to create new user accounts. Up to 127 user accounts can be added. Click Remove button to erase the selected account.

Enter a desired user name and a password. Select security classes that the user are accessible.
 The **Restrict the using terms** is optional. If selected, the data can only be loaded in the effective time interval.

		ser Accounts	o data							
	U U	SB Security Key								
	e e	Mail SMTP Server	Settings							
	e	-Mail Contacts								
Accou	int Settings									
No.	Secret	User name	Password	Class A	Class B	Class C	Class D	Class E	Class F	1
1		WeintekUSA	111111	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
2		002002	002002	\checkmark						
3		003003	003003	\checkmark						
		001001	004004	~						
4		004004	004004							
4		004004	004004							
4		004004	004004							
4	Add		Remove			Impo	rt		Export	
4 ctive	Add		Remove			Impo	rt		Export	
4 ctive i	Add Time ict the usin	g terms	Remove			Impo	rt		Export	

5. Click on [Save to USB] and navigate to the USB drive.

	Save to USB	Administrator Tools
	Select your USB device H:\ If your USB device is not displayed, click HERE	Generated successfully !
Save to USB	Create Exit	ОК

The file also can be stored on a PC via selecting "Folder" from the drop-down list.



Steps to load User Accounts to cMT HMI

- 1. Login to the cMT web interface.
- 2. Go to [Enhanced Security] menu » [Import User Accounts] tab.
- 3. Navigate to the location of the file and click Update button.

Enhance	ed Security
Accounts	Import User Accounts
Reset dat Please select	abase? file to upload
	Browse
Up	odate

9.2. USB Security Key

The USB security key is a way to login to cMT HMI without entering the user name and the password. To use this function, you will need to create a **Function Key** object that is configured **to** *Use [USB Security Key]*.

raicaonnioue		○ [Esc]
Import user accounts Use [USB Security Key] to Lo	ogin	[Unicode]
Data position		
USB disk	◯ SD card	
	OK Cancel	

When the USB drive that contains the security key to the HMI is inserted and the Function key object is pressed, the HMI will check if the user name and password stored in the USB drive matches an existing account in the HMI.

Configuration

1. Select [USB security key] checkbox.

2. Enter the user name and the password that exists in the HMI.

3. The **Restrict the using terms** is optional. If selected, the security key is effective in the selected time interval.

4. Click on [Save to USB] and navigate to the USB drive.

Save	Contents of the USB data		
Jave	Liner Accounts		
	USB Security Key		
, H	e-Mail SMTP Server Settings		
	e-Mail Contacts		
B Security Key	1		
	Licer page 1	Ministrated and A	
	User name :	Weintekusa	
	Password -		
	- abhord -		
	Confirm :	•••••	
ffective Time			
Restrict the	e using terms		
	L (14 (2010 15 20 A	E 1 (14 (2010 15 20 *	Save to folder

9.3. e-Mail SMTP Server Settings

It allows e-Mail Server Settings in the HMI to be updated during runtime. The HMI programmer must enable e-mail function in the HMI project. (Easybuilder pro » System Parameters » [Email] tab » Enable email function)

Configuration

- 1. Select [e-Mail SMTP Server Settings] checkbox.
- 2. Enter the valid SMTP Server settings.
- 3. Click on [Save to USB] and navigate to the USB drive.

Save (Contents of the USB data		
t	lser Accounts		
t	ISB Security Key		
• <u></u> e	-Mail SMTP Server Settings		
e	-Mail Contacts		
lail Settings			
SMTP Server :	support@weintekusa.com		
Port :	525	Sender information	
l lear name :	aumort.	Name :	support
oser name .	support	Med address a	
Password :	•••••	Mail address :	support@weintekusa.com
Confirm :	•••••		
	Log on using Secure Password Aut	thentication (SPA)	
	Use the following type of encrypte	ed connection	
	TLS V		
			Save to folder

Steps to load e-Mail SMTP Server Settings to Cmt HMI

- 1. Login the Cmt web interface.
- 2. Go to [Email] menu » [Import Email Accounts] tab.
- 3. Navigate to the location of the file and click Update button.

Email		
SMTP	Contacts	Update Email Contacts
Please s	elect file to uple	oad
		Browse
	Update	

9.4. e-Mail Contacts

It allows e-mail contacts in the HMI to be updated during runtime. The HMI programmer must enable e-mail function in the HMI project. (Easybuilder pro » System Parameters » [Email] tab » Enable email function)

Configuration

1. Select [e-Mail Contacts] checkbox.

2. Click the Add button to create a new contact name and its mail address to the list of contacts. Up

to 256 contacts can be created.

3. Create recipient groups from the No. of groups. Up to 16 groups can be created.

4. To add a contact to the selected group. Select a group under the **Current group**. Then select a contact under the list of contacts and click on the right-arrow button.

Click on the left-arrow button to delete the selected contact from the group.

5. Click on [Save to USB] and navigate to the USB drive.

initiatutor roots		
Save Cont	ents of the USB data Accounts Security Key	
e-Ma	il SMTP Server Settings	
e-Mai	il Contacts	
tacto		
lacis		No. of groups : 3
Contrat Norma	M-2 633	Group information
Contact Name	Mail Address	Current group : Group B ~
Useri Useri	useri @company.com	Description :
User3	user2@company.com	
03015	asiry ecompany.com	Contact Mail Address
		User2 user2@company.com
		>>>
Add	Remove	Import Export
		Save to USB

Steps to load e-Mail Contacts to cMT HMI

- 1. Login the cMT web interface.
- 2. Go to [Email] menu » [Import Email Accounts] tab.
- 3. Navigate to the location of the file and click Update button.

Email		
SMTP	Contacts	Update Email Contacts
Please se	elect file to upl	Browse
	Update	

10. cMT-Viewer

cMT-Viewer is a client application, which allows users to remote access the screen of cMT HMI located on the LAN (Local Area Network) via wireless connection or Ethernet connection.

Click the button as shown below.



Search for cMT HMIs on [Search] tab. The available HMIs will be shown as below when existing on the local network. Tap an Add icon on the desired HMI, and it will bring up a window requiring you to enter the password.

Connect	
Search	History
Q Name/ IP	To C
cMT-10D1 192.168.1.100	2

After that, the corresponding project will be loaded.

選 cMT Viewer		-	\times
	2019-02-14 17:07:09		
•			

11. EasyConverter

The Easy Converter is a tool used to view data log files (*.db) and event log files (*.db) that are generated by cMT HMI. It can convert db (database) file into CSV (comma separated values) file.

11.1. Viewing Data Log File

- 1. Launch EasyConverter.
- 2. To open a data log file, click [File] » [Open] and browse a data log file.

👺 Untitled - EasyConverter	– 🗆 X
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>H</u> elp	
🚰 🖬 🗃 🕱 🖷 💡 Language 1 🛛	
	^
	~
Ready	CAP NUM SCRL

3. The popup window prompts you to select the date range.

Choose date range	- test0215					×
Please select expo	rting date ra	nge				
	Year		Month		Day	
Start Date :	2019	\sim	2	\sim	15	\sim
End Date :	2019	\sim	2	\sim	15	\sim
			OK	_	Connad	
			UK		Cancel	

4. The following popup window appears. The raw data collected for Data 1 and Data 2 can be adjusted as needed. For example, the Data 2 has three digits after the decimal point. You can change the digits field from 3 to 1 if you're only concerned with one decimal accuracy.

Sampling Data Information X							
-	Select number of digits after decimal point :						
	No	Name	Туре	Word Size	Digits	Scaling	
	1	16-bit U	16-bit Unsign	1	0	No 💌	
	2	32-bit Fl	32-bit Float	1	3	No 💌	
				•			
1							
ĺ	Scoling & Officiat						
	IN/	~					
	Include millisecond information						
	Loa	ad Setting	g				
	Sa	ve Setting	g	OK		Cancel	

The Scaling column is a scaling option that offers linear scaling to data.

The equation of scaling new value = [(value + A) x B] + C

Set the values of A, B, and C.

A: Lower limit of the value;

B: [(scaled max) - (scaled min) / (upper limit) - (lower limit)];

C: Scaled min.

Sa	Sampling Data Information X						
	Select number of digits after decimal point :						
	No	Name	Nord Size	Digit Scaling			
	1	16-bit Unsigned	16-bit Unsigned	1	0 Yes ▼		
	2	32-bit Float	32-bit Float	1	3 No 💌		
	Scaling & Offset						
		•	D		<u> </u>		
0 0.01 0 new value = ((value + A) x B) + C = value x 0.01							
	ne =	0 w value = ((valu value x 0.01	0.01 Je + A) x B) + (C	0		
	ne = 1	0 w value = ((valu value x 0.01	0.01 Je + A) x B) + 0 information	C	0		
	ne =] In Lo;	0 w value = ((valu value x 0.01 iclude millisecond ad Setting	0.01 Je + A) x B) + (c	0		

You can click **Save setting** button for using these same changes on other files. The conversion file (*.lgs) created by **Save setting** button can be loaded by **Load setting** button, which applys the same changes on other files.

5. Click OK, the records in the data log file is displayed as below.

🕎 C:\Users\timhsieh\Desktop\historical_data\datalog\test0215.db - EasyConverter

<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>H</u> elp
🗃 🖬 🕅 📧 ⊨ 🢡 Language 1 🛛 🗸
2019/2/15,"12:07:29","12.3","52.3"
2019/2/15, 12:07:30, 12.3, 52.3
2019/2/15",12:07:31",12:3",52:3" 2019/2/15" 12:07:22" 12:2" 52:2"
2019/2/15, 12:07:32, 12:3, 52:3
2019/2/15, 12:07:34, 12.3, 52.3
2019/2/15, 12:07:35, 12.3, 52.3
2019/2/15, 12:07:36, 12.3, 52.3
"2019/2/15","12:0/:37","12:3","52:3" "2019/2/15" "12:07:38" "12:3" "52:3"
2019/2/15, 12:07:38, 12:3, 32:3
2019/2/15", 12:07:40", 12.3", 52.3"
2019/2/15, 12:07:41, 12.3, 52.3
2019/2/15, 12:07:42, 12.3, 52.3
"2019/2/15","12:0/:43","12:3","52:3" "2019/2/15" "12:07:44" "12:2" "52:2"
2019/2/15, 12:07:45, 12:3, 52:3
2019/2/15", 12:07:46", 12.3", 52.3"
2019/2/15, 12:07:47, 12.3, 52.3
2019/2/15, 12:07:48, 12.3, 52.3
2019/2/15 , 12:07:49 , 12.3 , 52.3

6. To save the file as XLS file, click [File] » [Save As] or the Save As icon. To save the file as CSV file, click [File] » [Export to Excel] or the Excel icon.

А	В	С	D
Date	Time	16-bit Unsigned	32-bit Float
2019/2/15	15:37:24	14.3	58.59
2019/2/15	15:37:25	14.3	58.59
2019/2/15	15:37:26	14.3	58.59
2019/2/15	15:37:27	14.3	58.59
2019/2/15	15:37:28	14.3	58.59
2019/2/15	15:37:29	14.3	58.59
2019/2/15	15:37:30	14.3	58.59
2019/2/15	15:37:31	14.3	58.59
2019/2/15	15:37:32	14.3	58.59
2019/2/15	15:37:33	14.3	58.59
2019/2/15	15:37:34	14.3	58.59
2019/2/15	15:37:35	14.3	58.59
2019/2/15	15:37:36	14.3	58.59
2019/2/15	15:37:37	14.3	58.59
2019/2/15	15:37:38	14.3	58.59
	A Date 2019/2/15 2019/2/15 2019/2/15 2019/2/15 2019/2/15 2019/2/15 2019/2/15 2019/2/15 2019/2/15 2019/2/15 2019/2/15 2019/2/15	A B Date Time 2019/2/15 15:37:24 2019/2/15 15:37:25 2019/2/15 15:37:26 2019/2/15 15:37:27 2019/2/15 15:37:29 2019/2/15 15:37:30 2019/2/15 15:37:31 2019/2/15 15:37:32 2019/2/15 15:37:32 2019/2/15 15:37:32 2019/2/15 15:37:32 2019/2/15 15:37:32 2019/2/15 15:37:33 2019/2/15 15:37:33 2019/2/15 15:37:35 2019/2/15 15:37:37 2019/2/15 15:37:37 2019/2/15 15:37:37 2019/2/15 15:37:37 2019/2/15 15:37:37 2019/2/15 15:37:37 2019/2/15 15:37:37 2019/2/15 15:37:37 2019/2/15 15:37:37 2019/2/15 15:37:37	A B C Date Time 16-bit Unsigned 2019/2/15 15:37:24 14.3 2019/2/15 15:37:25 14.3 2019/2/15 15:37:26 14.3 2019/2/15 15:37:27 14.3 2019/2/15 15:37:27 14.3 2019/2/15 15:37:28 14.3 2019/2/15 15:37:29 14.3 2019/2/15 15:37:30 14.3 2019/2/15 15:37:31 14.3 2019/2/15 15:37:32 14.3 2019/2/15 15:37:33 14.3 2019/2/15 15:37:33 14.3 2019/2/15 15:37:33 14.3 2019/2/15 15:37:33 14.3 2019/2/15 15:37:35 14.3 2019/2/15 15:37:35 14.3 2019/2/15 15:37:37 14.3 2019/2/15 15:37:37 14.3 2019/2/15 15:37:37 14.3 2019/2/15 15:37:37 14.3

11.2. Viewing Event Log File

- 1. Launch EasyConverter.
- 2. To open an event log file, click [File] » [Open] and browse an event log file.



3. The popup window prompts you to select the date range.

Choose date range - e	vent				×
Please select exportin	g date range				
Ye	ar	Month		Day	
Start Date : 20)19 ~	2	\sim	15	\sim
End Date : 20)19 ~	2	\sim	15	\sim
		OK	_	Cancol	
		UK		Cancer	

4. The following popup window prompts you to select language.

Select language - event		×
Select your event log la	nguage	
Language 1		~
Don't ask me again		
	ОК	Cancel

5. Click OK, the records in the data log file is displayed as below.

Event: This column indicates the following meanings.

0=Event triggered

1=Event acknowledged

2=Event returns to normal

Category: This column indicates the event category.

Message: This column indicates the Alarm message.

🖾 C:\Users\timhsieh\Desktop\data\eventlog\event.db - EasyConverter

<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>H</u> elp
🚔 🖬 🗃 📧 🗦 😵 Language 1 🛛
"Event", "Category", "Date", "Time", "Message", "Occurrence Count", "Elapsed Time"
"0","0","2019/2/15","16:43:31","Event 0","1","0"
"2","0","2019/2/15","16:43:31","Event 0","1","0"
"0","0","2019/2/15","16:43:32","Event 0","2","0"
"2","0","2019/2/15","16:43:32","Event 0","2","0"
"0","0","2019/2/15","16:43:33","Event 0","3","0"
"2","0","2019/2/15","16:43:33","Event 0","3","0"
"0","0","2019/2/15","16:43:33","Event 0","4","0"
"2","0","2019/2/15","16:43:34","Event 0","4","0"
"0","0","2019/2/15","16:43:34","Event 0","5","0"
"2","0","2019/2/15","16:43:34","Event 0","5","0"
_0","0","2019/2/15","16:43:35","Event 0","6","0"

6. To save the file as XLS file, click [File] » [Save As] or the Save As icon. To save the file as CSV file, click [File] » [Export to Excel] or the Excel icon.

	А	В	С	D	E	F	G
1	Event	Category	Date	Time	Message	Occurrence Count	Elapsed Time
2	0	0	2019/2/15	16:43:31	Event 0	1	0
3	2	0	2019/2/15	16:43:31	Event 0	1	0
4	0	0	2019/2/15	16:43:32	Event 0	2	0
5	2	0	2019/2/15	16:43:32	Event 0	2	0
6	0	0	2019/2/15	16:43:33	Event 0	3	0
7	2	0	2019/2/15	16:43:33	Event 0	3	0
8	0	0	2019/2/15	16:43:33	Event 0	4	0
9	2	0	2019/2/15	16:43:34	Event 0	4	0
10	0	0	2019/2/15	16:43:34	Event 0	5	0
11	2	0	2019/2/15	16:43:34	Event 0	5	0
12	0	0	2019/2/15	16:43:35	Event 0	6	0
13							
14							

- Converting multiple files:
- This tool allows you to select multiple data/event log files and save them to one CSV file. 1. Launch EasyConverter.
- 2. Click Multiple files button to convert multiple files.



3. Click [Add File] and select the files.

Enable setting file: Check this box and browse a conversion file (*.lgs). The linear scaling conversion or decimal point conversion on the conversion file will be implemented to the selected data log files. Combine to a file: Check this box to combine the selected files and save them into one CSV file.

and the factor of the state of		
onvert file list : C:\Users\timhsieh\Desktop\event.db C:\Users\timhsieh\Desktop\test0215.db		
	Add File	Delete File
⊡ Enable setting file	Add File	Delete File
✓ Enable setting file C:\Users\Desktop\test0215.lgs	Add File	Delete File
✓ Enable setting file C:\Users\Desktop\test0215.lgs ✓ Combine to a file	Add File	Delete File
Enable setting file C:\Users\Desktop\test0215.lgs Combine to a file Merge data into a single sheet	Add File	Delete File

Note: [Merge data into a single sheet] is **not** available for data/event log files created by cMT HMI.

EasyConverter

 \times



The .db files can't be merged into a single sheet. Do you wish to continue?

12. Recipe Editor

This application is a tool which allows users to modify recipe files (*.rcp) that can update data stored in **RW** and **RW_A** retentive memory, as well as Extended Memory files (*.emi) that can update data stored in **EM** extended memory.

- 1. Launch Recipe Editor.
- 2. Click on [File] menu » [Open] and browse your recipe file (*.rcp) or Extended Memory file (*.emi).



3. The following popup window appears.

Address range (unit: word): The number of registers that are used for this file. For example, an Extended Memory file uses the memory EM1_0 through EM1_299. Enter 0 to "From" box and enter 299 to "To" box. Data format: Each data element has a format to be interpreted by the HMI. Click on the Add button to add a data format.

Set Data Format	×		
Address range (unit : word) Select your data format From 0 To 299 Save Format	▼ Delete Format	Deta Type Description : Data 0 C 16-bit BCD	C 32-bit BCD
Data format	Add	C 16-bit HEX	C 32-bit HEX
	Delete Clear All	 16-bit Unsigned 32-bit Unsigned 	C 16-bit Signed
	Modify	C Float	
	ок	C String	WORD(s)
¢	Cancel	ОК	Cancel

For example,

The first data element on the first row is the data in String format. Enter the comment to Description box, selest String checkbox as well as enter how many words this string has.

The second data element on the first row is 16-bit unsinged integer format, so select "16 bit Unsigned."

You can click on Save Format button to save this data format for using this same data format on other files.

I	In the project file	Dat format dialog
		Set Data Format X
		Address range (unit : word) Select your data format
™ut	trition table	From 0 To 299 Save Format Delete Format
item calories pr	rotein fat čarbonhydrate Sodium	fiber Data format
AFAARXAAAAA ***	0 (RW-6) NE_1 (RW-7) NE_2 (RW-8) NE_3 (RW-9)	NE 4 (SW) (3D) Size Type Description Add 5 M(DDpc Chips [ASC/I] Personal Add
AAAAAAA NE <u>######</u>	8 (RW-17) NE_7 (RW-18) NE_8 (RW-19) NE_9 (RW-20)	Image: Strain product Strain product Delete 1 WORD 16-bit Unsigned protein
Å ^E A ² Å ^R Å ² ÅAAAA ^{NE} ###### ²⁷¹	12/8/4/281 NE_113/8/4/291 NE_114/8/4/301 NE_15/8/4/311	1 WORD 16-bit Unsigned fat 1 WORD 16-bit Unsigned carbonhydrate
	18/8/4391 NE_19/8/4401 NE_20/8/441 NE_31/8/4421	Image: Construction Modify Modify Modify
	241874501 NE_251874511 NE_261874522 NE_27187453	NE
	39,18,9,611 NE_33,189,4,621 NE_32,189,4,631 NE_33,189,4,641	Ме ######65
	38(8)%721 NE_37(8)%731 NE_38(8)%74 NE_39(8)%75	E 44(19)/761 Cancel

4. After clicking OK, the below table of data elements appears.

ID: ID number for each row.

Address: Starting address for each row.

Edit the table according to the data format defined for each element.

ID	ADDRESS	Item name	calories	protein	fat	carbonhydrate	sodium	fiber
0	0		0	0	0	0	0	0
1	11		0	0	0	0	0	0
2	22		0	0	0	0	0	0
3	33		0	0	0	0	0	0
4	44		0	0	0	0	0	0
5	55		0	0	0	0	0	0
6	66		0	0	0	0	0	0
7	77		0	0	0	0	0	0
8	88		0	0	0	0	0	0
9	99		0	0	0	0	0	0
10	110		0	0	0	0	0	0
11	121		0	0	0	0	0	0
12	132		0	0	0	0	0	0
13	143		0	0	0	0	0	0
14	154		0	0	0	0	0	0
15	165		0	0	0	0	0	0
16	176		0	0	0	0	0	0
17	187		0	0	0	0	0	0

5. Click on [File] menu » [Save]. If the file is used to update EM external memory, you must save the file name which corresponds to the Extended Memory name preconfigured in the cMT HMI (em0.emi, em1.emi, em2.emi, em3.emi, em4.emi, em5.emi, em6.emi, em7.emi, em8.emi, or em9.emi).

6. Once the file is saved, you can update the memory in the following ways:

- To update **RW** and **RW_A** retentive memory, use the **Download** application or USB drive download.
- To update **EM** external memory, copy the file to the external memory device or via FTP server to transfer.

13. Recipe Database Editor

This application is a tool which allows users to create or modify a database file that can update Recipe Database stored in the .cxob project file.

1. Launch Recipe Database Editor.

2. Click on the Import button and navigate to where the Recipe DEF file (*.rdef) or Database file (*.db) is located.

3.

• Create a new database when importing Recipe DEF file (*.rdef).

Recipe Database Editor		×
Recipes :		
Help Topics	🖴 Import	Export
		<u> </u>

Click the Add button to add a new row to the database. Enter the data element according to the data format predefined in the .cxob project file. The up and down arrow buttons is used to move the selected row up and down in the list.



• Modify a database file when importing Database file (*.db) Edit the table according to the data format predefined in the .cxob project file. The up and down arrow buttons is used to move the selected row up and down in the list.



4. Click on Export button to save this database.

5. To update Recipe Database stored in the .cxob project file, use the **Download** application or USB drive download.

14. Easy System Setting

This application is a tool which allows you to configure hardware system settings on PC.

1. Launch EasySystemSetting.



2. Select [cMT Series] from the [Model] drop-down list. Enter the HMI's system password onto [Current Local Password]. (The default password is 11111)

😳 EasySystemSetting		-		\times
File Language Help				
Model: cMT Series				
Current Local Password : 111111				
General	HMI name : Default HMI			
History Network LAN 1	Backlight: 15 🔻			
Network LAN 2 Security	Time offset: 0			
VNC server setting	Portrait mode : 0			
	Volume : 🜒		1	00%

 Configure system settings if required. To know the information about the following options, please refer to the user manual of the CMT HMIs. The unchecked options won't update the specific settings.
 General menu-

> HMI name Backlight (Brightness) Time offset (Time zone) Portrait mode Volume

History menu-

Clear Recipe Clear Recipe Database Clear Operation Log Clear Event Log Clear Data Log

Network LAN1 menu-

IP address Subnet mask Gateway DNS address

Note: If [DHCP] option is checked, above options will be grayed out.

Network LAN2 menu-

IP address Subnet mask

Note: If [DHCP] option is checked, above options will be grayed out.

Security menu-

Local (System setting) password Upload Project password Upload (History, FTP) password User password

VNC server setting menu-

Start VNC single-connection Start VNC multi-connection Stop VNC password

Note: If [Stop] option is chosen, [VNC password] option will be grayed out

Misc menu-

Popup download window FTP client can modify USB/SD data 4. Once finishing the settings, go to [File] tab » [Save]. Save it to *.conf file.

😧 EasySystemSetting		—		\times
File Language Help				
Model : cMT Series Current Local Password : 1111	v 11			
General History Network LAN 1 Network LAN 2 Security VNC server setting Misc	HMI name : Default HMI Backlight : 15 • EasySystemSetting X Configuration were exported successfully!		1)0%

How to use this file

1. In the Utility Manager, make sure the [cMT Series] option is chosen in advance.



2. Launch the Download application.



3. In the Download dialog, check [Use system settings file]. Navigate to the *.conf file. Click Download button.

	USB cable			
IP HMI Name				
HMI: cMT-1	0D1 ~	192.168.1.100 (cM	T-10D1)	
	Search	Ĩ.		
	Search All	1		
Se	earch and Change IP			
	-			
Project				
RW				
Recipe database				
Startup screen				
Use system settings file	e C:\Users\Weintekt	USA_Engineer\Desktop\	systemsetting.conf	
Delete existing user ac	counts			
Delete existing user ac	counts contacts and SMTP settings			
Delete existing user act	counts contacts and SMTP settings _A)	latabase	Reset operation log	
Delete existing user acc Delete existing e-Mail c Reset recipe (RW, RW Reset event log	counts contacts and SMTP settings _A) Reset recipe d Reset data log	latabase	Reset operation log	
Delete existing user act Delete existing e-Mail c Reset recipe (RW, RW, Reset event log Reset startup screen	counts contacts and SMTP settings _A)	latabase J	Reset operation log	
Delete existing user aco Delete existing e-Mail c Reset recipe (RW, RW Reset event log Reset startup screen CODESYS	counts ontacts and SMTP settings _A) Reset recipe o Reset data log	latabase J	Reset operation log	
Delete existing user acc Delete existing e-Mail c Reset recipe (RW, RW, Reset event log Reset startup screen ODESYS Project	counts ontacts and SMTP settings _A)	latabase J	Reset operation log	
Delete existing user ac Reset recipe (RW, RW Reset event log Reset startup screen ODESYS Project	counts ontacts and SMTP settings _A)	latabase J	Reset operation log	
Delete existing user acc Delete existing e-Mail c Reset recipe (RW, RW, Reset event log Reset event log Reset startup screen ODESYS Project	counts contacts and SMTP settings _A)	latabase J	Reset operation log	
Delete existing user acc Delete existing e-Malic Reset recipe (RW, RW, Reset event log Reset startup screen ODESYS Project	counts contacts and SMTP settings _A) Reset recipe o Reset data log	latabase	Reset operation log	

15. cMT Diagnoser

This application is a tool that allows you to diagnose faults between devices.

Before using this tool, the **Diagnoser** checkbox in your HMI project must be selected. This option can be found from [System Setting Parameters] » [Remote] tab.

System Param	eter Settings					
Cellular	Data Network	Tir	me Svnc./DST	e-	Mail	Recipe Database
Device	Model	General	System	Remote	Security	Extended Memory
Prohibi Prohibi Prohibi VNC server Passwe Passwe Monito EasyAccess	t remote HMI co t password remo t password remo ord free ord free r mode s server	nnecting to this ote-read operat	i machine tion (or set LB905 tion (or set LB905	i3 on) 54 on)	anuar - Clabal	
Diagnoser						
Enable						
cMT viewer						
Max conne Warning :	ect count : 3	Count : 1 ∧ ct count will aff	 10 ect performance 			

You can set up a password to protect the tool from unauthorized users or select **Password free**.

Diagnoser	
C Enable	
Password free	
	Password: 12345

Load the project to your HMI.

DEthernet Password/Port no. of download/upload : Setting IP HMI Name HMI : Tim-cmt3090 Search Search All				
IP HMI Name HMI : Tim-cmt3090 Search Search All	Ethernet		Password/Port no. of download/upload :	Settings
HMI : Tim-cmt3090 V Search Search All	IP HMI Name			I
	HMI : Tim-cmt3090	Search Search All	192.168.1.108 (Tim-cmt3090)	

How to Use cMT Diagnoser



Launch Utility Manager on your PC. Click [cMT Diagnoser].

Click the HMI.

CMT Diagnoser		_	×
Search History			ŝ
O Name / IP	С		
Tim-cmt3090 192.168.1.108			

Enter the password to access the diagnostic tool. If [Password free] is selected in the HMI project, the password is NOT required.



On the [Object] tab, the table shows you the objects used in this window.

🖸 Diagnoser					
< Object Device Pa	cket Macro MQTT				<u>ئې</u>
Window 10: WINDOW_010	(;				+ 🗇
Name	Address	Туре	Length	Value	
 Global Objects Window 4: Common Window Window 10: WINDOW_010 Numeric (1) Siemens 57-1200/57-1500 	PLC.Blocks.Data_block_1.number1	16-bit Unsigned	1	0	
 Numeric (2) Siemens S7-1200/S7-1500 Numeric (3) 	PLC.Blocks.Data_block_1.number2	16-bit Unsigned	1	0	
Local HMI A Numeric (4)	LW-0	16-bit Unsigned	1	2	
Local HMI A Numeric (5)	LW-10	16-bit Unsigned	1	0	
Local HMI Toggle Switch (6)	LW-1	16-bit Unsigned	1	0	
Local HMI A Numeric (7)	LB-10	Bit	1	false	
Local HMI Toggle Switch (8)	LW-500	16-bit Unsigned	1	0	
Local HMI Watch	LB-500	Bit	1	false	

You can change windows using the drop-down list.



					0
0			2		
Diagnoser					
Object Device	Packet	Macro	MQTT		
Window 10: WINDOW_010	*				+ =
Name	Address	Туре	Length	Value	
 Global Objects Window 4: Common Window Window 10: WINDOW_010 Numeric (1) Siemens S7-1200/S7-1 	PLC.Block	16-bit Uns	1	0	
 Numeric (2) Siemens 57-1200/57-1 	PLC.Block	16-bit Uns	1	0	
 Numeric (3) Local HMI 	LW-0	16-bit Uns	1	2	-
 Numeric (4) Local HMI Numeric (5) 	LW-10	16-bit Uns	1	0	
Local HMI Toggle Switch (6)	LW-1	16-bit Uns	1	0	
Local HMI Numeric (7)	LB-10	Bit	1	false	
Toggle Switch (8)	LW-500	16-bit Uns	1	0 falsa	
LOCAI HMI Watch	FR-200	DIT	1	Taise	

The object will be highlighted in green when clicking a row on the table.

The value of an object can be changed by double-clicking a row. For example, you can turn ON a Bit Lamp.

0			2		
🖸 Diagnoser					0 0
Object Device	Packet		MQTT		
Window 10: WINDOW_010	-				+ 0
Name	Address	Туре	Length	Value	
 Global Objects Window 4: Common Window Window 10: WINDOW_010 Numeric (1) Siemens \$7-1200/\$7-1 Numeric (2) Siemens \$7-1200/\$7-1 Numeric (3) 	PLC.Block PLC.Block	16-bit Uns 16-bit Uns	1	0	
Local HMI	LW-0	16-bit Uns	1	2	
Local HMI	LW-10	16-bit Uns	1	0	
Local HMI	LW-1	16-bit Uns	1	0	
Local HMI	LB-10	Bit	1	🔲 false	
Local HMI	LW-500	16-bit Uns	1	0	
4 100010 SWITCD 181					

You can click "+" button to add a new address to monitor. To delete an address under **Watch**, select the address and then click on "trash bin" button.

Note: Adding tags of	f tag-based PLCs	is not supported.
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Object Device	Packet	Macro	MQTT		
Window 10: WINDOW_010					+
Name	Address	Туре	Length	Value	
Window 4: Common Window Window 10: WINDOW_010 Numeric (1)					
Siemens 57-1200/57-1 A Numeric (2)	PLC.Block	16-bit Uns	1	0	
Siemens 57-1200/57-1 A Numeric (3)	PLC.Block	16-bit Uns	1	0	
Local HMI A Numeric (4)	LW-0	16-bit Uns	1	2	
Local HMI A Numeric (5)	LW-10	16-bit Uns	1	0	
Local HMI Toggle Switch (6)	LW-1	16-bit Uns	1	0	
Local HMI	LB-10	Bit	1	false	
Local HMI Toggle Switch (8)	LW-500	16-bit Uns	1	0	
Local HMI	LB-500	Bit	1	false	
Local HMI	LB-100	Bit	1	false	

[Device] tab

This page shows you the devices connected to the HMI.

	Object	Device	Packet	Macro	MQTT
Pi	roperty			Value	
4	Local HMI				
	Index			0	
	State			Connected	
	Location			Local	
	Device T	/pe		cMT3090	
	Interface	-		14	
	Block Int	erval		256	
	Max. Rea	d Length		256	
	Max. Wri	te Length		256	
4	Siemens S7-	1200/57-1500			
	Index			1	
	State			Connected	
	Location			Local	
	Device Ty	/pe		Siemens S7-120	0/S7-1500 (Symbolic Addressing) (Ethernet)
	Interface			Ethernet (IP: 19	2.168.1.166, Port: 102)
	Block Int	erval		1	
	Max. Rea	d Length		32	
	Max. Wri	te Length		1	
4	MODBUS RT	ſU			
	Index			2	
	State			Connected	
	Location			Local	

[Packet] tab » Activity

In this page, you can monitor a device using the **Device** drop-down list and then clicking the "signal" (orange) button or click the "signal" button to monitor all the devices.

Objec	t	Device	Packet	Macro	MQTT				
Activity	/	Polling							
Packet Typ	e: A		• Device:	All					
ddress Typ	e: A		- Keyword:]			
No.	Тур	e PID	Device	Station	Address	Length	Index	Time	Result
99	Ρ	200012	Local HMI	10	PLW-8950	1		0	Success
98	Ρ	200011	Local HMI	12	LB-8999	1	2	112	Success
97	Ρ	200017	Local HMI	4	LW-500	1	-	125	Success
96	Ρ	200012	Local HMI		PLW-8950	1	-	0	Success
95	Ρ	200016	Local HMI		LW-0	11		109	Success
94	Ρ	200023	Local HMI	12	LB-100	1	<i></i>	128	Success
93	Ρ	200012	Local HMI	-	PLW-8950	1	~	0	Success
92	Ρ	200018	Siemens S7-12		PLC.Blocks	1	-	48	Success
91	Ρ	200019	Siemens S7-12		PLC.Blocks	1		80	Success
90	Ρ	200012	Local HMI	a.	PLW-8950	1	đ	0	Success
89	Ρ	200015	Local HMI	2	LB-10	491	-	112	Success

[Packet] tab » Polling

This page lists packets between devices and the HMI.

Packet ID	Device	Station	Address	Length	Index
100358	Local HMI	4	LB-10	1	
100359	Local HMI		LW-10	1	
200011	Local HMI	~	LB-8999	1	
200012	Local HMI		PLW-8950	1	
200014	Local HMI	-	LB-9039	3322	
200015	Local HMI	15	LB-10	491	
200016	Local HMI	-	LW-0	11	
200017	Local HMI		LW-500	1	
200018	Siemens 57-1200/57-1500	-	PLC.Blocks.D	1	
200019	Siemens S7-1200/S7-1500		PLC.Blocks.D	1	
200023	Local HMI	~	LB-100	1	

[Macro] tab

ID	Name			Execute
000	Macro 1			0
15:25:54] C 15:25:54] S	onnecting to server	er		
15:25:54] C 15:25:54] S	onnecting to serve erver connected.	er		
15:25:54] C 15:25:54] S	onnecting to serve erver connected.	2r		
15:25:54] C 15:25:54] S	onnecting to serve erver connected.	er		

In this page, you can run macros to validate the functions on the devices.

[MQTT] tab » Server

This page shows you the state of MQTT server connected to the HMI, as well as connection logs. Type: The MQTT server used in this project, displaying **Normal / Azure IoT Hub / Sparkplug / Google Cloud IoT Core**.

State: It displays Stopped/Disconnected/Connected

Jiagnos	er						
С)bject	Device	Packet	Macro	MQTT	2	
S	erver	Address	Publish	ned Su	bscribed		
Type:	Normal						
State:	Connected						
[15:29	:251 Client 5	7239c70-6951-	4966-8895-98	551b703757	sending PINGRE	0	
[15:29	:26] Client 5	7239c70-6951-	496c-8895-98	551b703757	received PINGR	ESP	
[15:29	:35] Client 5	7239c70-6951-	496c-8895-98	551b703757	sending PINGRE	Q	
[15:29	:36] Client 5	7239c70-6951-	496c-8895-98	551b703757	received PINGRI	ESP	
[15:29	:45] Client 5	7239c70-6951-	496c-8895-98	551b703757	sending PINGRE	Q	
[15:29	:46] Client 5	7239c70-6951-	496c-8895-98	551b703757	received PINGR	ESP	
[15:29	:55] Client 5	7239c70-6951-	496c-8895-98	551b703757	sending PINGRE	Q	
[15:29	:56] Client 5	7239c70-6951-	496c-8895-98	551b703757	received PINGR	ESP	
[15:30	1:05] Client 5	72390-70-6951-	4966-8895-98	5510/03/5/	sending PINGRE	EQ	
[15:30	151 Client	7239070-0951-	4966-8895-98	551D/03/5/	conding DINCRE	ESP	
[15:30	161 Client	7239670-6951	4900-8895-98	551b703757	received PINGRI	FSD	
[15:30	251 Client	7239c70-6951-	4966-8895-98	551b703757	sending PINGRE	0	
[15:30	:251 Client 5	7239c70-6951-	4966-8895-98	551b703757	received PINGR	ESP	
[15:30	:35] Client 5	7239c70-6951-	496c-8895-98	551b703757	sending PINGRE	Q	
[15:30	:36] Client 5	7239c70-6951-	496c-8895-98	551b703757	received PINGRI	ESP	
[15:30	:45] Client 5	7239c70-6951-	496c-8895-98	551b703757	sending PINGRE	Q	
[15:30	:46] Client 5	7239c70-6951-	496c-8895-98	551b703757	received PINGR	ESP	
[15:30	:55] Client 5	7239c70-6951-	496c-8895-98	551b703757	sending PINGRE	Q	
[15:30	:56] Client 5	7239c70-6951-	496c-8895-98	551b703757	received PINGR	ESP	

[MQTT] tab » Address

The MQTT topics published and subscribed by the HMI are displayed in this page. You can select the checkbox of a topic to monitor its content (JSON or RAW format) in **Published** page or **Subscribed** page.

Server Ad	ddress F	Published	Subscribed			
Горіс	Device	Address	Туре	Length	Value	
Publisher						
Image: A state of the state					Test/MQTT	
Bit value	Local HMI	LB-10	Bit	1	false	
Subscribor	LOCAL HIVE	LVV-TU	16-bit Uns		U	
					Test/MOTT	
Bit value	Local HMI	LB-500	Bit	1	false	
Word value	Local HMI	LW-500	16-bit Uns	1	0	

[MQTT] tab » Published

This page displays the content of MQTT topics published to the MQTT server.

Address opic est/MQTT	Packet Publishe	Macro :d S	MQTT	Da	Nickname / 1 ta length 98 bytes	Topic Timestamp 2019-10-16 1	5:31:46
Address opic est/MQTT	Publishe	ed S	ubscribed	Da	Nickname / T ta length 98 bytes	Timestamp 2019-10-16 1	5:31:46
opic <mark>est/MQTT</mark>				Da	ta length 98 bytes	Timestamp 2019-10-16 1	5:31:46
est/MQTT					98 bytes	2019-10-16 1	5:31:46
': [true " : [0] 9-10-16T0], , 0:33:04.620	737"					
	: [true " : [0] 9-10-16T0	: [true], " : [0], 9-10-16T00:33:04.620	: [true], " : [0], 9-10-16T00:33:04.620737"	: [true], ": [0], 9-10-16T00:33:04.620737"	: [true], " : [0], 9-10-16T00:33:04.620737"	: [true], ": [0], 9-10-16T00:33:04.620737"	: [true], ": [0], 9-10-16T00:33:04.620737"

[MQTT] tab » Subscribed

This page displays the content of MQTT topics subscribed from the MQTT server.

Object	Device	Packet Ma	acro MQTT		
Server	Address	Published	Subscribed	Q Nickname / 1	Fopic 🛛 🔾
Nickname	Торіс			Data length	Timestamp
sub	Test/MQTT			98 bytes	2019-10-16 15:31:46

Appendix A- FTP Server

FTP (File Transfer Protocol) Server in cMT 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.

How to log in the FTP server

1. Find the IP address of the HMI. The IP address can be found on the cMT HMI or via cMT-Viewer. Make sure the PC and the HMI are on the same subnet.

2. On the PC, open the file explorer and enter the following address: ftp://uploadhis: [FTP password]@[the IP Address of the HMI]

For instance, enter <u>ftp://uploadhis:111111@192.168.1.100</u>. 111111 is the default FTP password. 192.168.1.100 is the 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.

👺 🛃 🔚 🗢 192.168.1.100									
File Home Share View									
\leftarrow \rightarrow \checkmark \uparrow \clubsuit > The Internet > 192.	168.1.100								
Quick access									7
ConeDrive	crash_dum ps	datalog	energy	eventlog	operationlo q	pccard	recipe	stringtable	usbdisk
💻 This PC	F-				5				
💣 Network									

- 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.

Reference Link:

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

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