

WEINTEK LABS., INC.

# **CODESYS System Time**

## **Setting HMI system time and reading HMI system time in PLC Program**

Demo Project

**Contents**

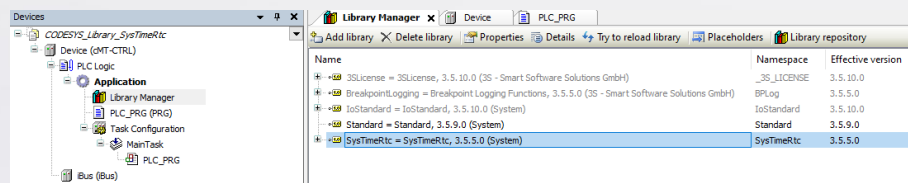
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## 1. Overview

This demo project explains how to change HMI system time and read the new HMI system time by using CODESYS SysRtcTime Library. The system time in EasyBuilder Pro can be written to the RTC in CODESYS after the controller is rebooted.

## 2. Adding Library

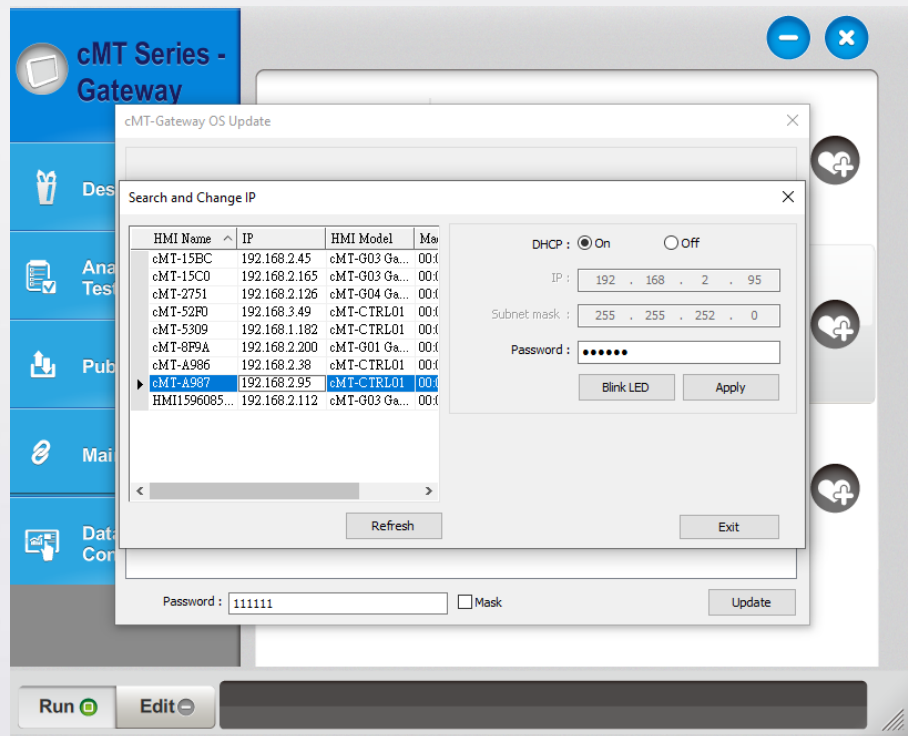
**Step 1.** Add SysRtcTime Library in CODESYS software.



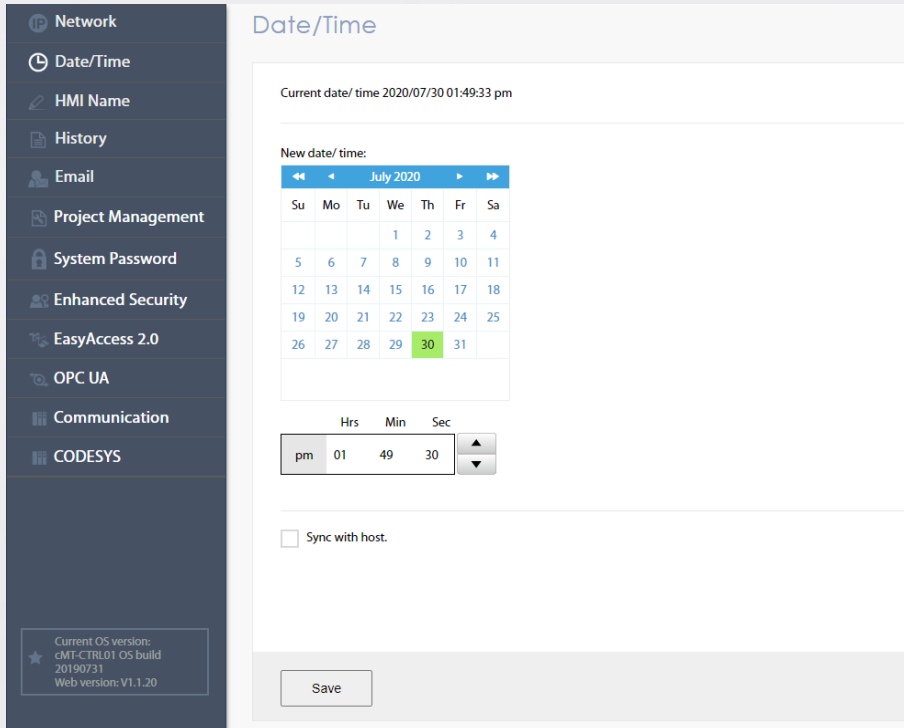
**Step 2.** Use the Function in the Library to get CODESYS system time.

### 3. Setting HMI Time

**Step 1.** Search for the IP address of cMT-CTRL01 (or cMT Series HMI ) and go to the web interface and configure the parameters.



**Step 2.** Open [Date/Time] tab and set the date and the time and then reboot the unit.



**Date/Time**

Current date/ time 2020/07/30 01:49:33 pm

New date/ time:

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Hrs Min Sec

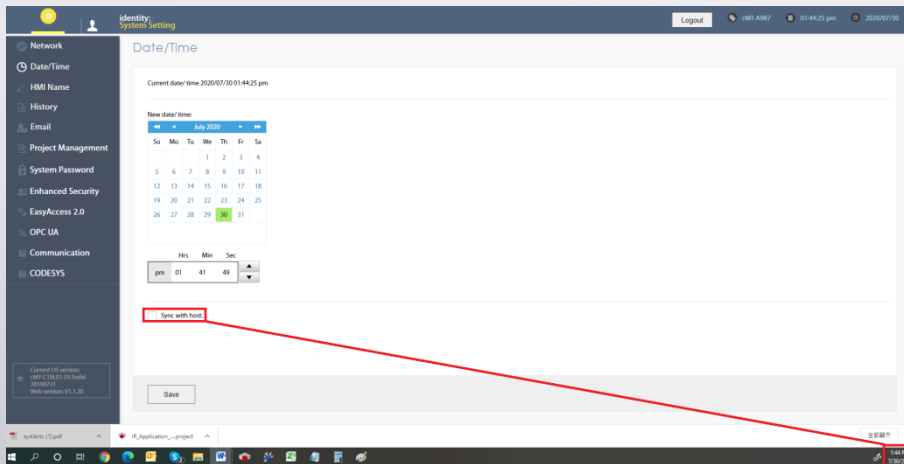
pm 01 49 30

☐ Sync with host.

Save

Current OS version: cMT-CTRL01 OS build 20190731  
Web version: V1.1.20

✧ To synchronize with the computer time, select [Sync with host].



**Date/Time**

Current date/ time 2020/07/30 01:44:25 pm

New date/ time:

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Hrs Min Sec

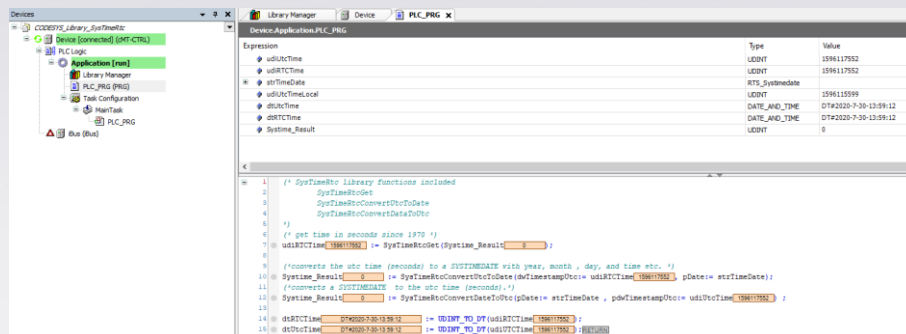
pm 01 41 40

☐ Sync with host.

Save

Current OS version: cMT-CTRL01 OS build 20190731  
Web version: V1.1.20

**Step 3.** Download the Demo Project to cMT-CTRL01 (or cMT Series HMI).



In the program using SysTimeRtcGet can get the system time in DWORD format.

SysTimeRtcConvertUtcToDate: Convert the system time to year, month, day, hour, minute, second, microsecond format.

SysTimeRtcConvertDateToUtc: Convert the system time to year, month, day, hour, minute, second, microsecond in DWORD format.

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