39. Data Security

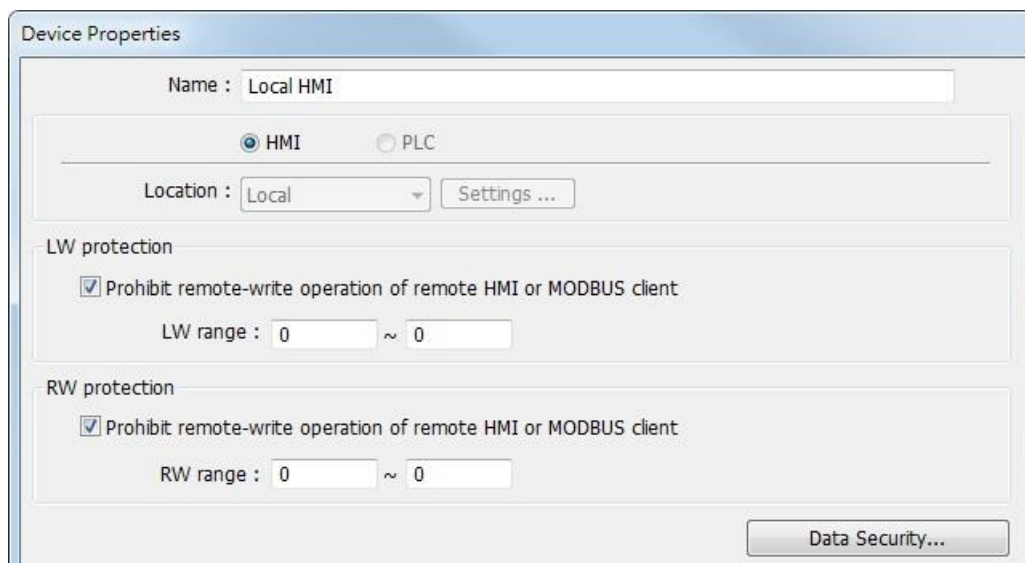This chapter explains how to setup Data Security.

39.1.   Overview

Data Security allows setting restrictions on the write operations that modify local Word or Bit register data. To do so, open [System Parameter Settings] » [Device] tab, select [Local HMI] and then click [Security...] button.
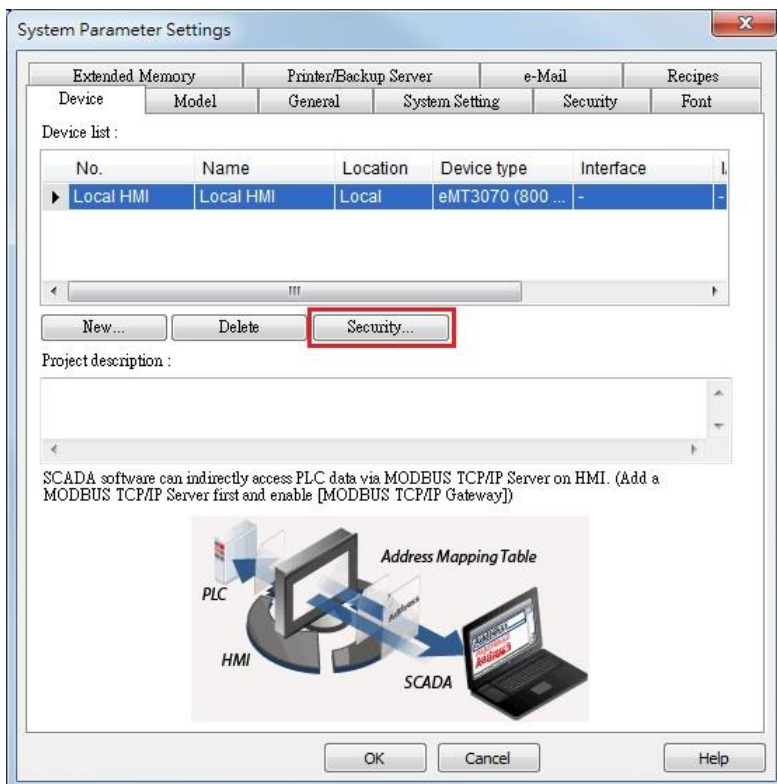
39.2.   Configuration

The following is the settings dialog box:

Setting	Description
LW protection \ Prohibit remote-write operation of remote HMI or MODBUS client	If selected, a remote HMI or MODBUS client will not be able to write to the specified LW addresses.
RW protection \ Prohibit remote-write operation of remote HMI or MODBUS client	If selected, a remote HMI or MODBUS client will not be able to write to the specified RW addresses.

Click [Data Security] button to set the restrictions on the write operations that modify local Word or Bit register data.

39.2.1.   Word address settings

Set the restrictions relevant to local Word addresses.

Setting	Description
Description	Enter the description or memo about this setting.
Address Mode	Select [Word] to set the relevant attributes.
Min. value	Set the minimum value that can be written to the designated word address.
Max. value	Set the maximum value that can be written to the designated word address.
Disable remote-write operation	If selected, the remote HMI will not be able to write to the protected address.
Used only in remote-write operation	If selected, the range between [Min. value] and [Max. value] is only used to restrict the value written by a remote device.
Use min. value when write value is less than min. value	If selected, when the written value is less than [Min. value], the system will write the specified minimum value instead. If not selected, when the written value is less than [Min. value], the system will keep the original value.
Use max. value when write value is more than max. value	If selected, when the written value is greater than [Max. value], the system will write the specified maximum value instead.

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	If not selected, when the written value is greater than [Max. value], the system will keep the original value.
Notification	When the written value is not within the specified range between [Min. value] and [Max. value], the system will trigger the designated notification bit address.

As shown in the preceding figure, the remote HMI will not be able to write to LW-0, and when the value written to the local address is greater than 10, the value 10 is written instead, and the notification bit LB-0 will be set ON.

39.2.2. Bit address settings

Set the restrictions relevant to local Bit addresses.
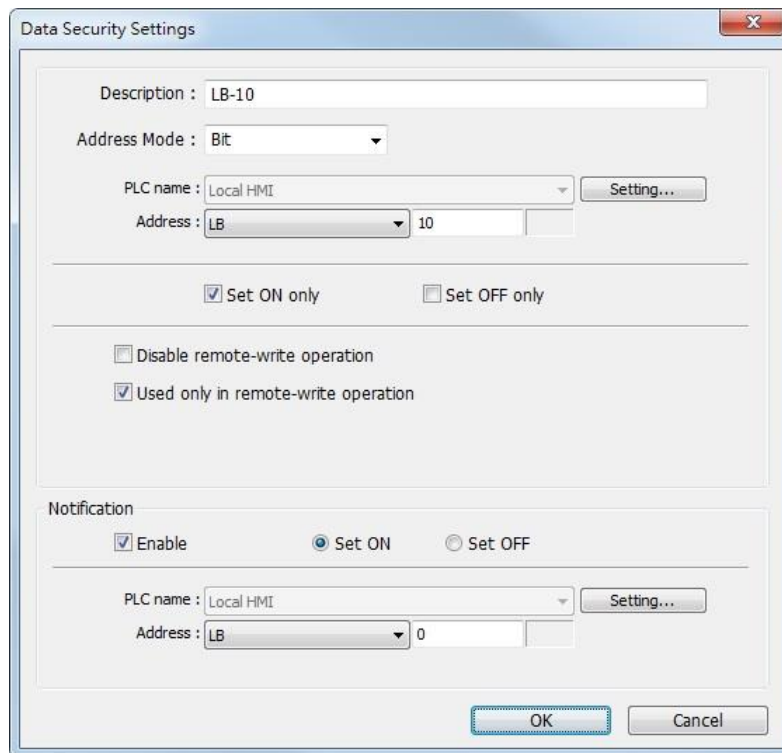
Setting	Description
Description	Enter the description or memo about this setting.
Address Mode	Select [Bit] to set the relevant attributes.
Set ON only	If selected, the designated bit address can only be set ON.
Set OFF only	If selected, the designated bit address can only be set OFF.

Disable remote-write operation	If selected, the remote HMI will not be able to write to the protected address.
Used only in remote-write operation	If selected, the specified condition is only used to restrict the write operation by a remote device.
Notification	When enabled and: ● Select [Set ON], the system will trigger the notification bit address when attempting to set OFF the protected bit address. ● Select [Set OFF], the system will trigger the notification bit address when attempting to set ON the protected bit address.

As shown in the preceding figure, the remote HMI can only set ON LB-10, while the local HMI is not restricted. If the remote HMI attempts to set LB-10 OFF, the system will trigger notification bit LB-0 ON.