Technical Information

TI 04L65B01-02EN

GA10
Data Logging Software
Setup Guide

SMARTDAC+

Max. 100 devices

100 ms high-speed acquisition

Max. 2000 channels (tags)

The contents of this Technical Information are subject to change without notice.

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TI 04L65B01-02EN

1st Edition Jan.14, 2014

Contents

Introduction

This document describes the setup for GA10 Data Logging Software.

■ Notice

- The contents of this manual are subject to change without notice as a result of continuing improvements to the instrument's performance and functions.
- Every effort has been made to ensure accuracy in the preparation of this manual. Should any errors or omissions come to your attention, however, please inform Yokogawa Electric's sales office or sales representative.
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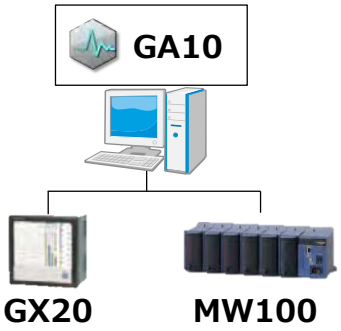
1. Collecting Data with GA10 for the First Time

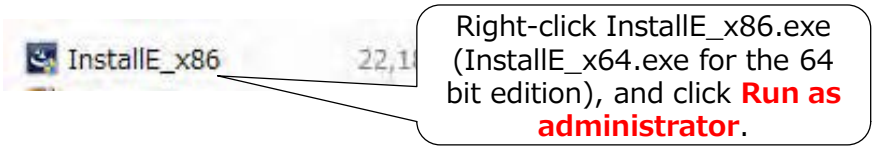
- Let's actually connect devices to GA10 and collect data.

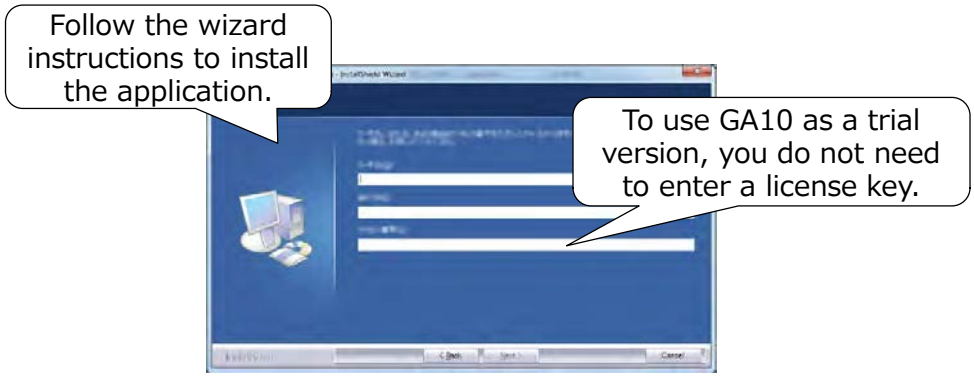


* To connect the UT, PR, or JUXTA series; other Modbus devices; or the WT series, see Section 10.

2. Installing GA10

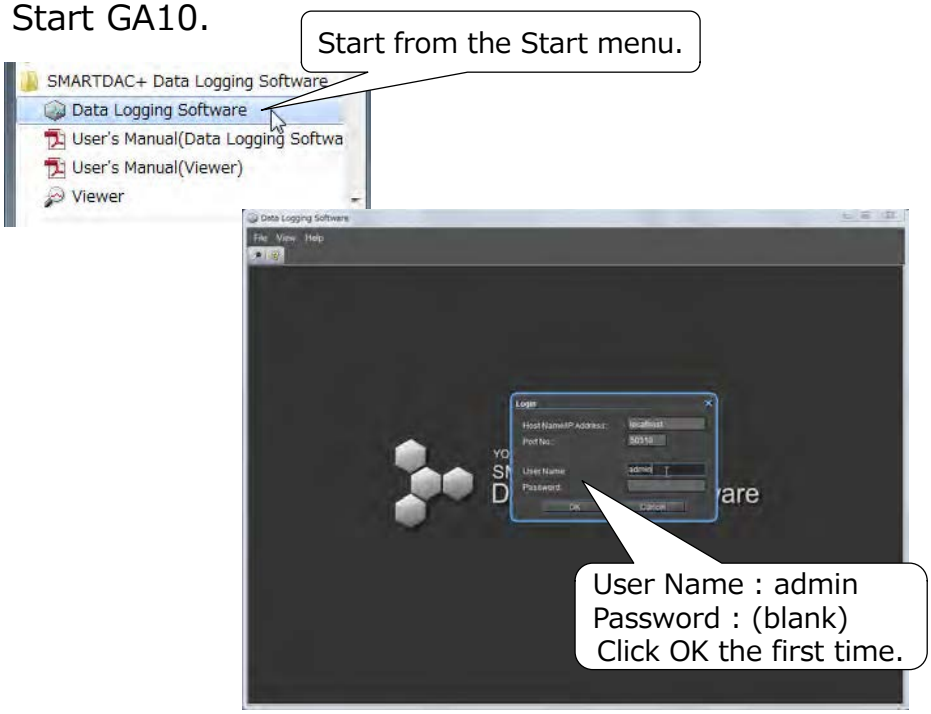
- Download GA10 from the Web site, and install it in your PC.





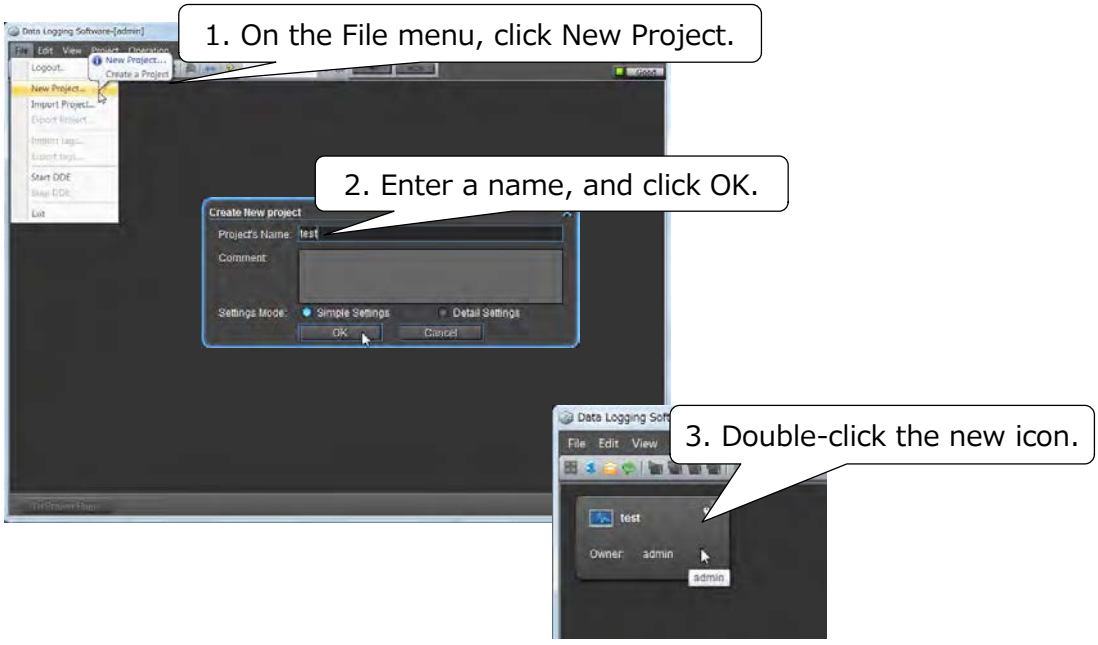
3. Simple Settings 1/4

- Start GA10.



3. Simple Settings 2/4

- Assign a name to the project.

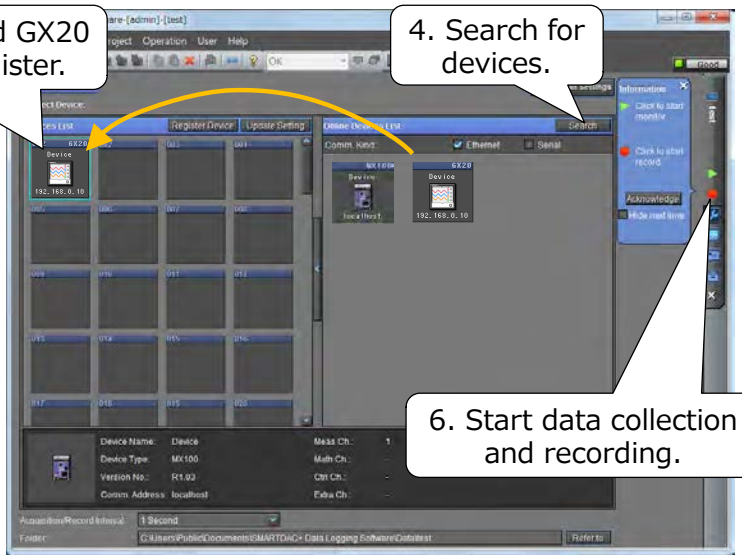


3. Simple Settings 3/4

Simply register devices, and you can start collecting data.

5. Drag the detected GX20 and MW100 to register.

4. Search for devices.



6. Start data collection and recording.

* If you cannot search, use the Register Device button.

- Select the device name.
- Enter the IP address or serial settings.

* For details on using the UT, PR, or JUXTA series; Modbus devices; or the WT series, see section 10.

- Monitor: Monitoring only
- Record: Saves data to file.

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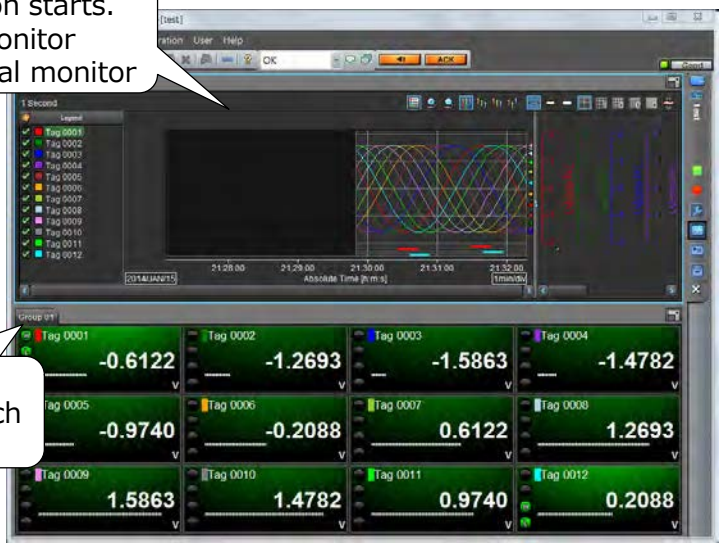
3. Simple Settings 4/4

You can start collecting data by simply performing the aforementioned steps.

Data collection starts.
Top: Trend monitor
Bottom: Digital monitor



A group is created for each device.

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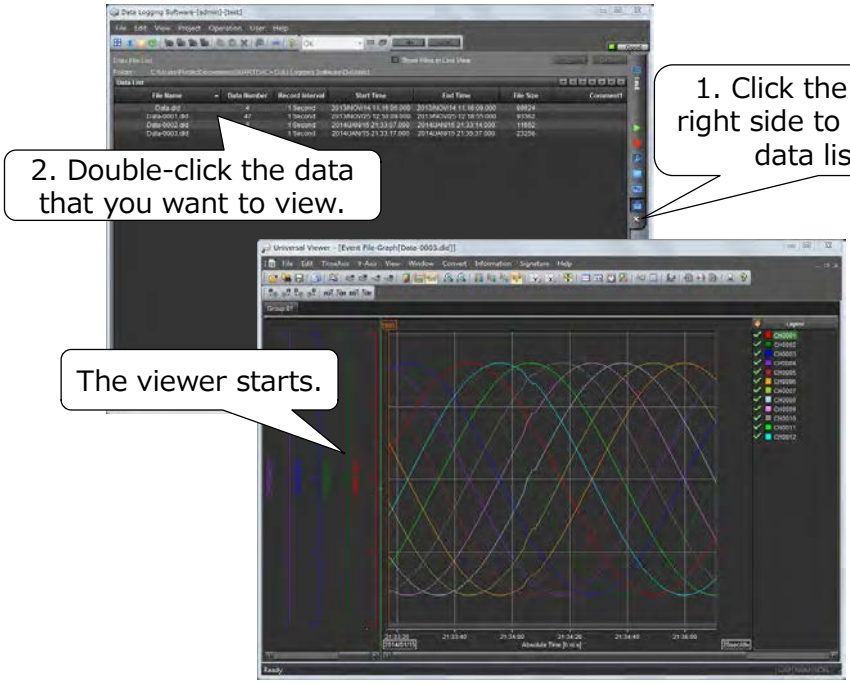
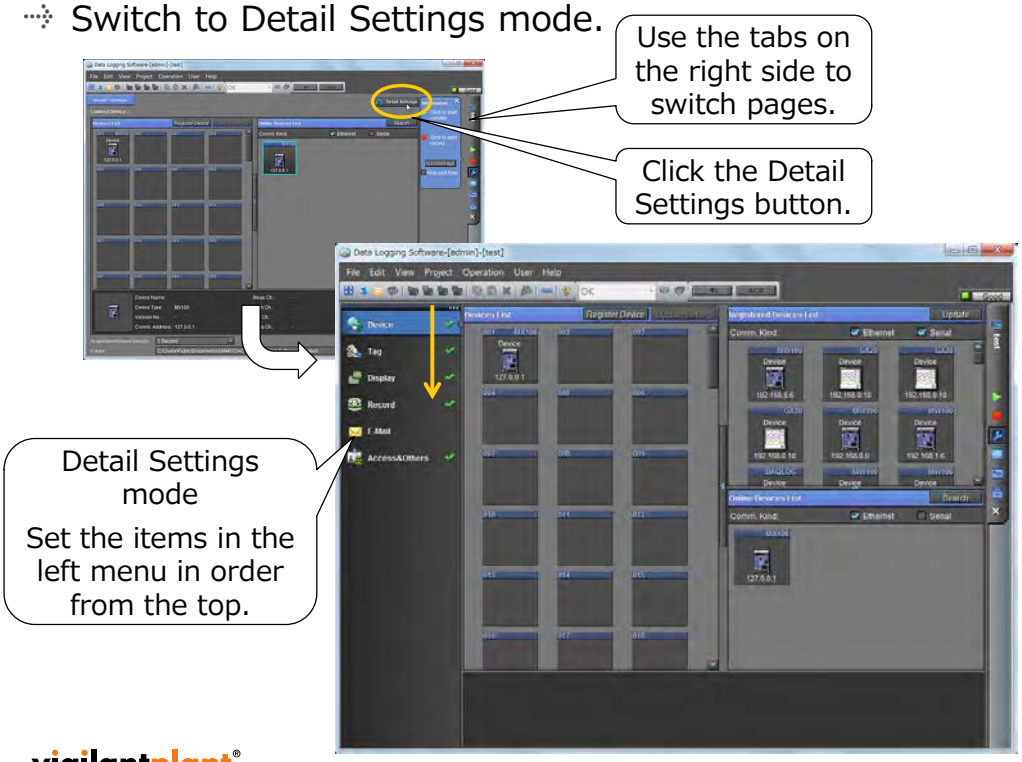
4. Viewing the Recorded Data

If you recorded data, you can view the data with the viewer.



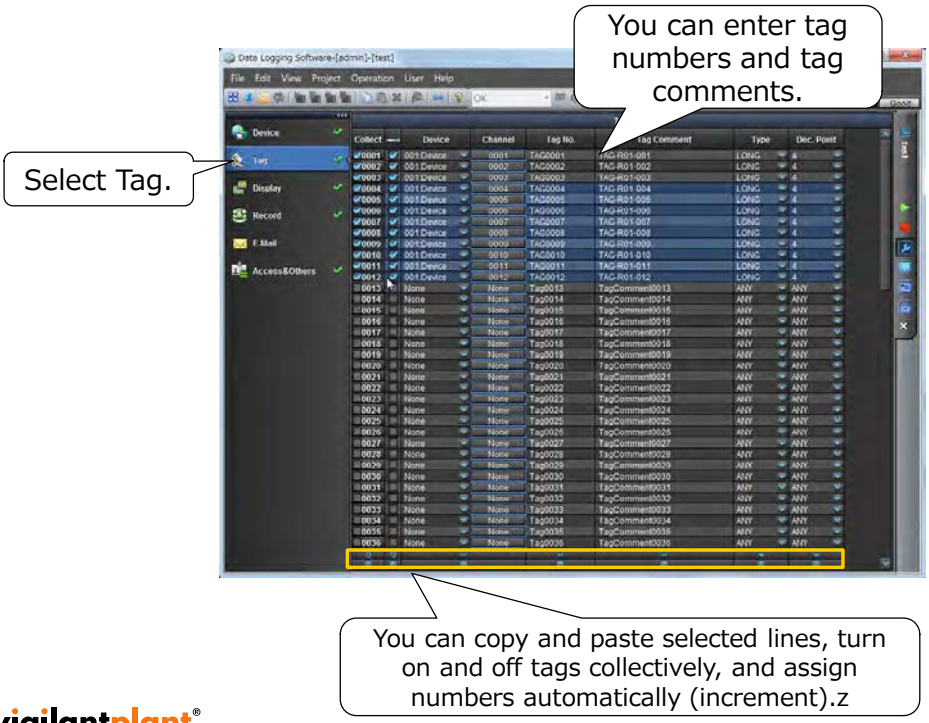
5. Changing the Settings in Detail (Detail Settings)

Switch to Detail Settings mode.



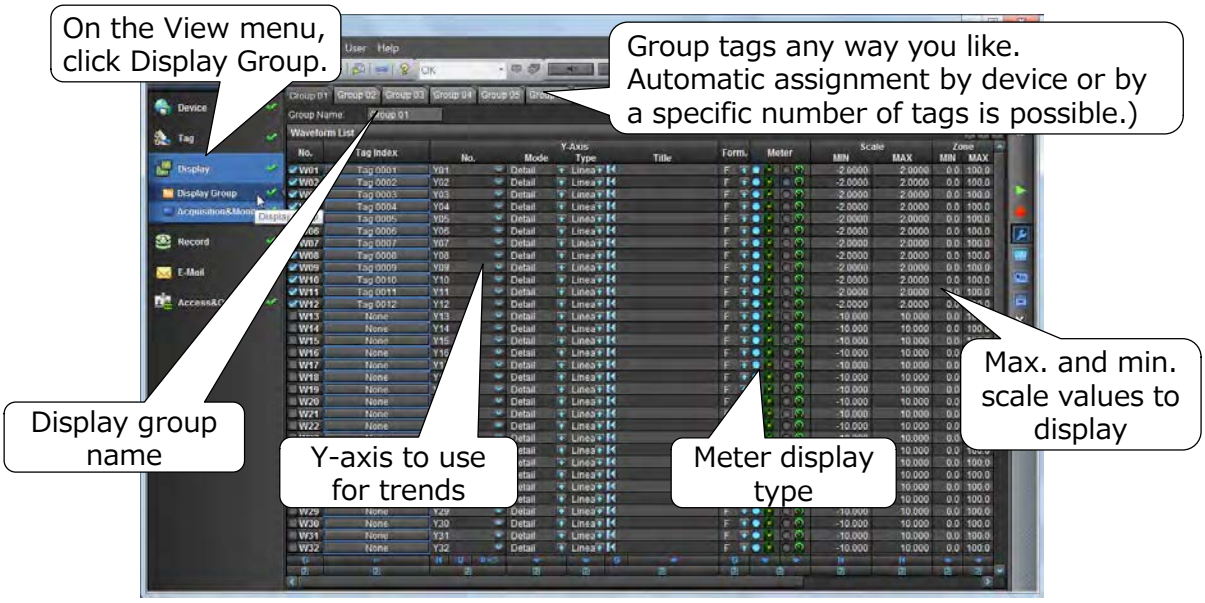
6. Changing Tag Names (Detail Settings)

- You can change tag numbers and tag comments.

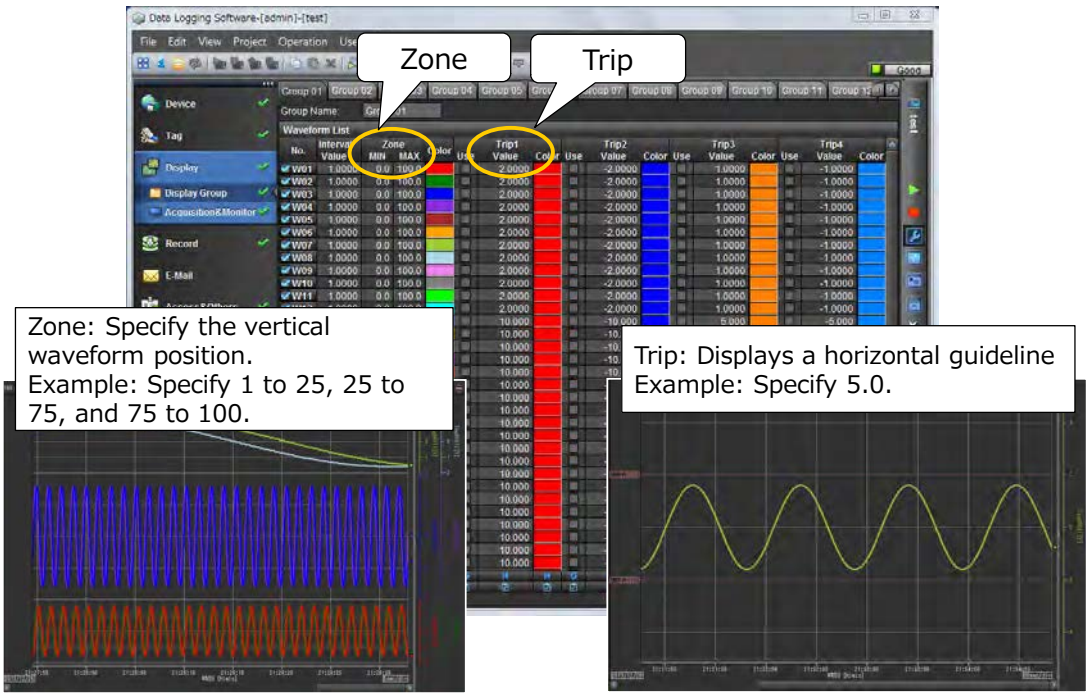


7. Assigning Tags to Groups and Changing the Display (1) (Detail Settings)

- You can assign tags to different groups as you like.
- You can change how to display the waveforms, such as the waveform color, meter type, Y-axis, and scale.



7. Assigning Tags to Groups and Changing the Display (2) (Detail Settings)



8. Selecting the Data Time

- We recommend you use “PC time,” which does not divide the screen or files.
- Use “Device time” to back up data or when replacing DAQ32Plus.

• Monitoring applications on a PC
• If you want data to be consolidated into a single file
• For replacing DAQLOGGER

	Timestamp	Collection and record interval	Backfill*	Monitor page (Trend/Alarm)	Data file
PC time	Time on the PC	Can be set freely	No	Displayed on a single page	Saved to a single file
Device time	Time on the device	Uses the interval on the device	Yes	Page divided by device or collection interval	File divided by device or collection interval

• Data backup applications
• For replacing DAQ32Plus (using one Darwin unit)

* Backfill operates under the following conditions.
• Applicable devices: GX/GP/DX/MV
• Data is retained in the device’s internal memory.
• The device’s FTP function is on.

9. Changing the Monitor Page (Detail Settings)

- The monitor page can be divided into up to 16 monitor sets.

On the View menu, click Acquisition & Monitor.

Example 1: 4 monitor sets (horizontally divided into 2)

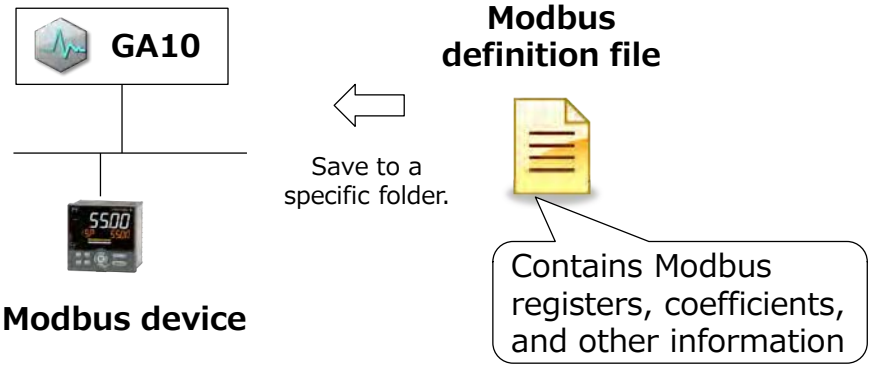
Example 2: 6 monitor sets (horizontally divided into 2)

The available display types are trend, digital, meter, and alarm.

Check the preview.

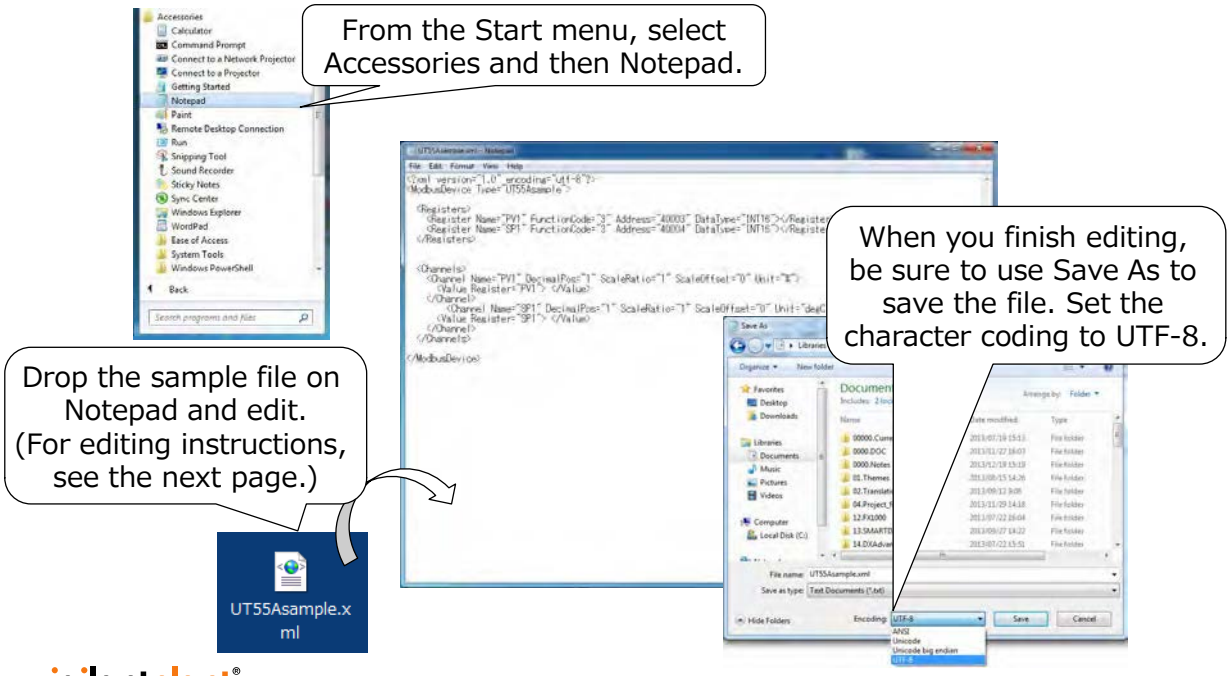
10. Connecting a Modbus Devices

- To connect a UT, PR, or JUXTA series device or other Modbus device, you need to register a “definition file” containing the device information in GA10.



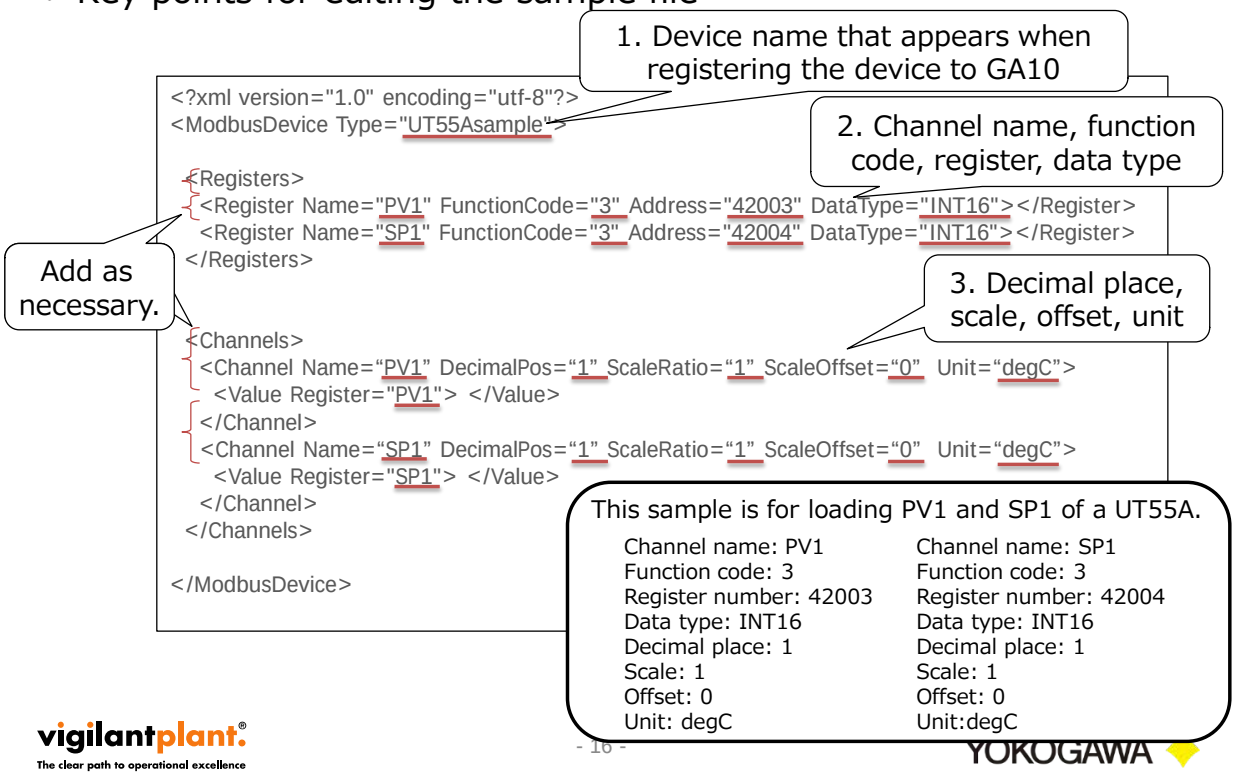
11. Creating a Modbus Definition File (1/2)

- Download a sample file from the Web site, and edit it using Windows Notepad.



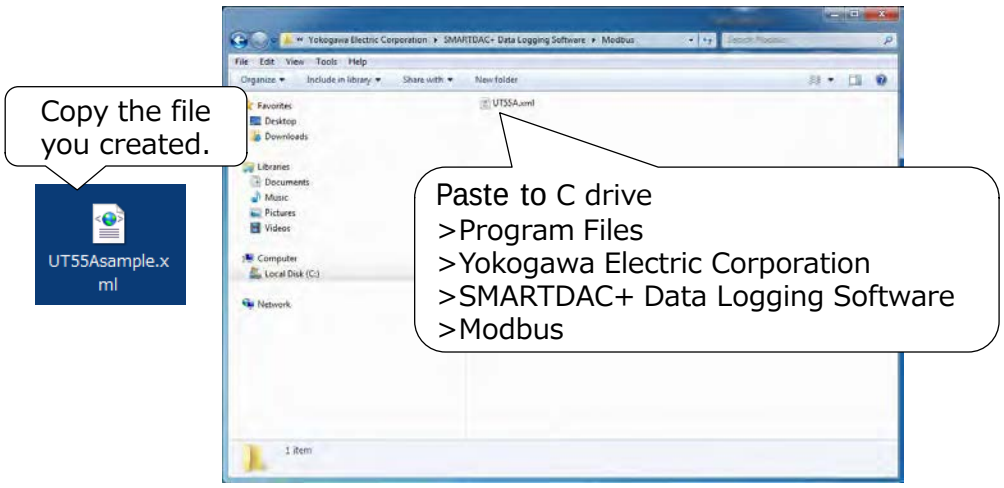
11. Creating a Modbus Definition File (2/2)

- Key points for editing the sample file



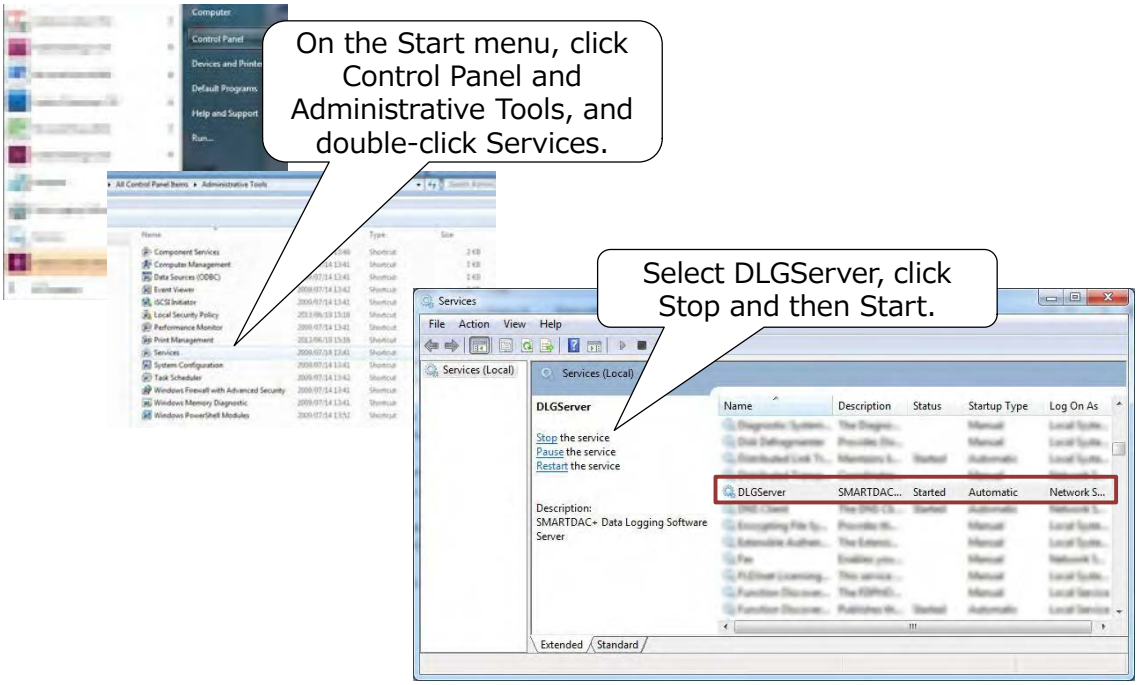
12. Copying the File Created in Step 1 to a Specific Folder

Copy the file to the specific folder.



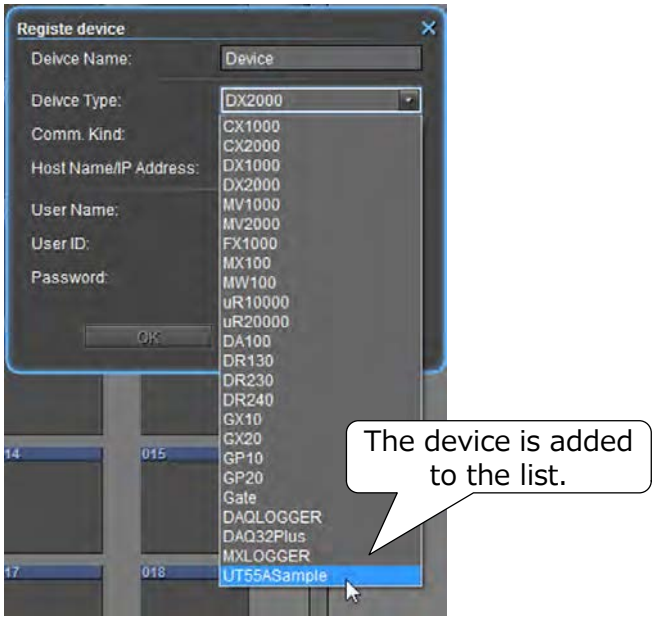
13. Restarting the Server

Restart the GA10 service.



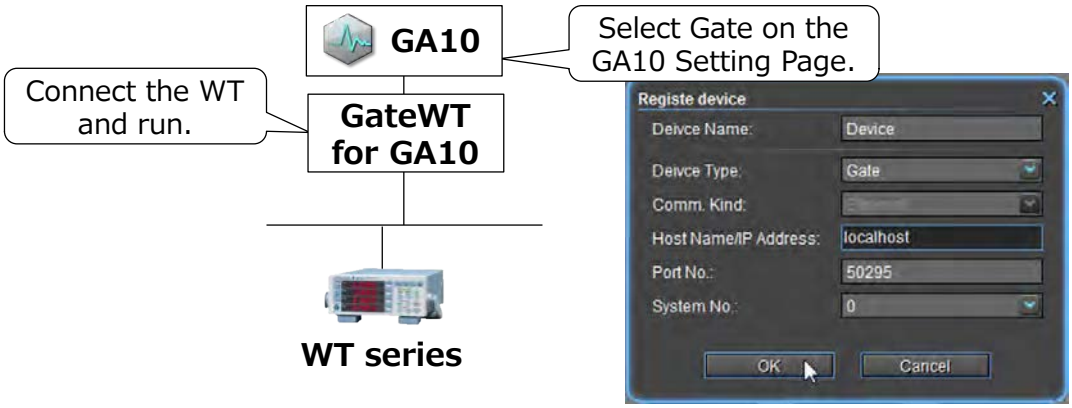
14. Register the Device to GA10

- On the GA10 Setting Page, register the device that you defined.



15. Connecting a WT Series Device

- Download GateWT for GA10, and use it to make the connection.
  License: You can install it using the GA10 license key.
  Applicable models: WT210/230/500/1800
  * The WT310/330 can be connected using the WT210/WT230 compatible command mode.
  Communication port: Ethernet or serial



16. Installing GateWT for GA10

- Be sure to read “Readme.txt”
- Install GateWT for GA10.

Right-click Install.exe, and click **Run as administrator**.

Follow the wizard instructions to install the application.

Enter the GA10 license key.

17. Configuring GateWT for GA10 (1/2)

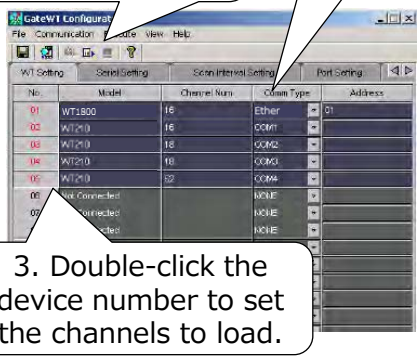
- Start GateWT for GA10.

2. Select the device to automatically detect the device type.

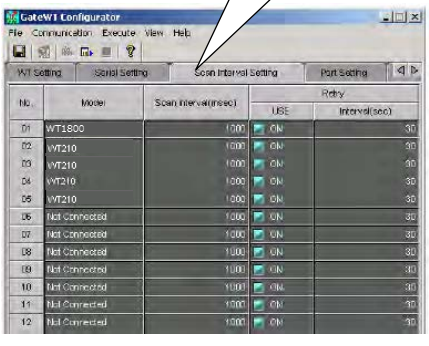
1. Select the communication method.

ETHER: Enter the address (IP address).
COM: Set on the serial setting tab in advance.

4. On the Scan Interval Setting Tab, set the scan interval (msec).



Switch tabs

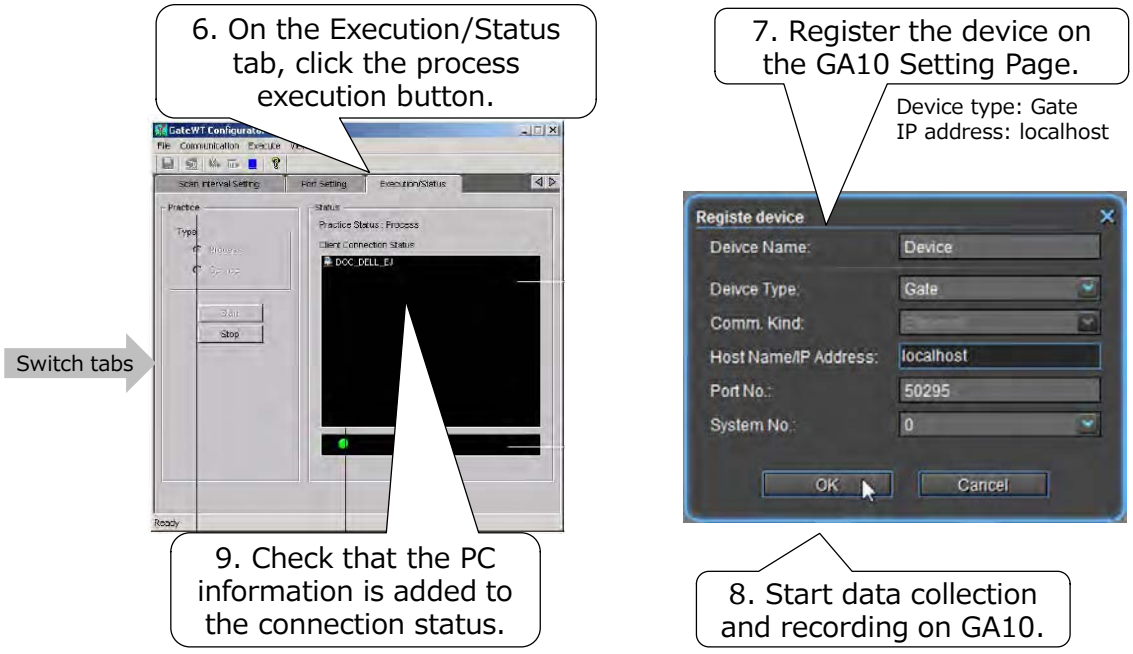


Switch tabs

3. Double-click the device number to set the channels to load.

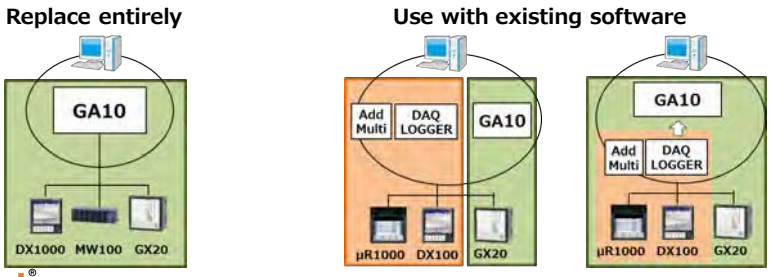
17. Configuring GateWT for GA10 (2/2)

- When you finish the settings, register the device to GA10.



18. To DAQWORX Users

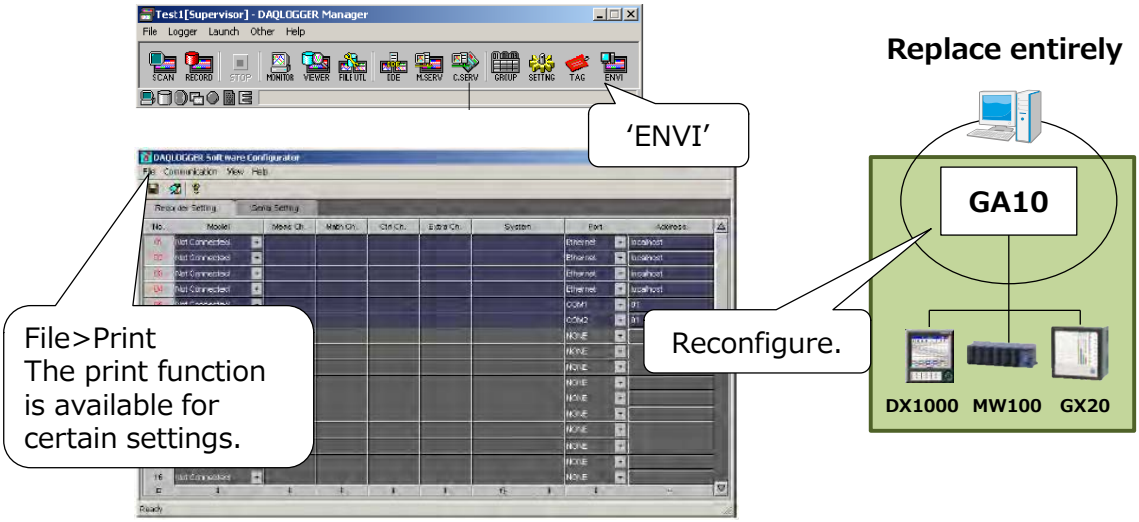
- Please replace DAQWORX with GA10.
- However, in the following cases, use the existing software together with GA10.
  - Windows XP or earlier is in use.
  - Connecting to a discontinued product.
  - GP-IB communication is in use.
  - Event processor (e-mail transmission, FTP transfer, html conversion, etc.), report function, file utility (file split and merge), math channels, AO channels, or DO channels are in use.
  - AddTrigger, AddObserver, or DataBrowser is in use.



19. Replacing Entirely (1/2)

- Reconfigure the system using GA10.
- To save the current settings, use the DAQWORX print function.

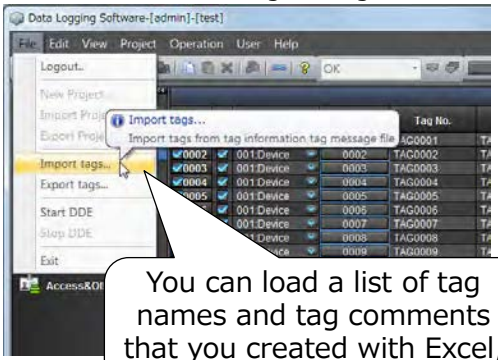
DAQLOGGER environment settings (ENVI) example



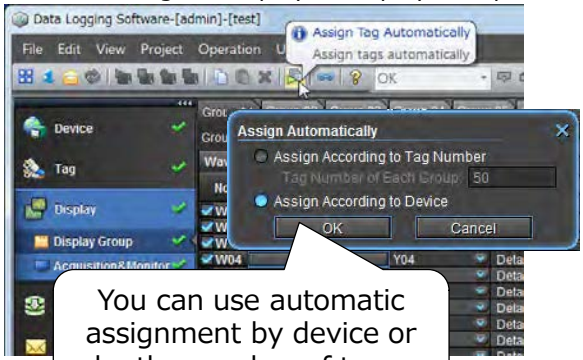
19. Replacing Entirely (2/2)

- You can reduce the burden of configuration by using the GA10 tag import feature, tag auto assignment feature, and the Action bar.

Detail Settings > Tag



Detail Settings > Display > Display Group



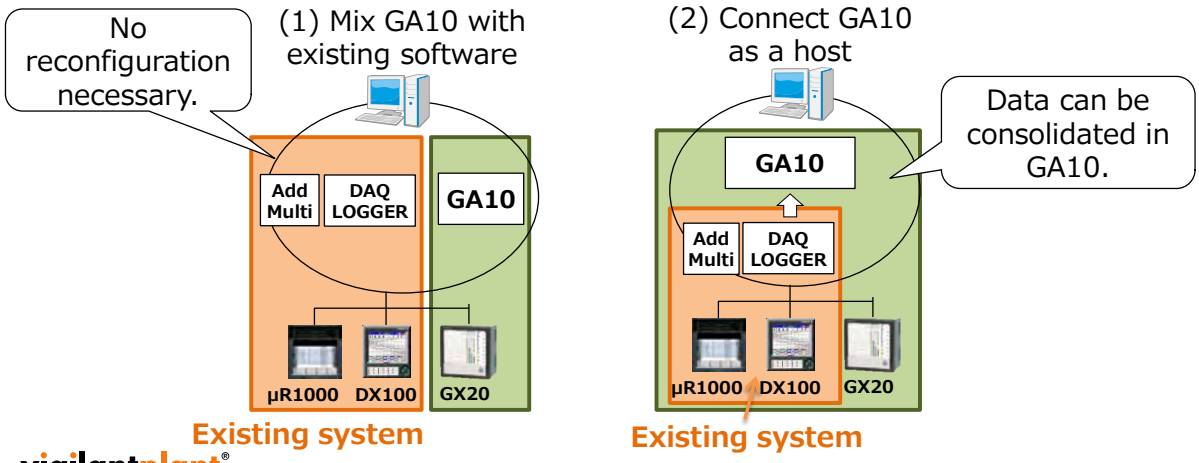
Detail Settings > Tag or Display

You can copy and paste selected lines, turn on and off tags collectively, and assign numbers automatically (increment).

20. Using Existing Software with GA10 (Two Methods)

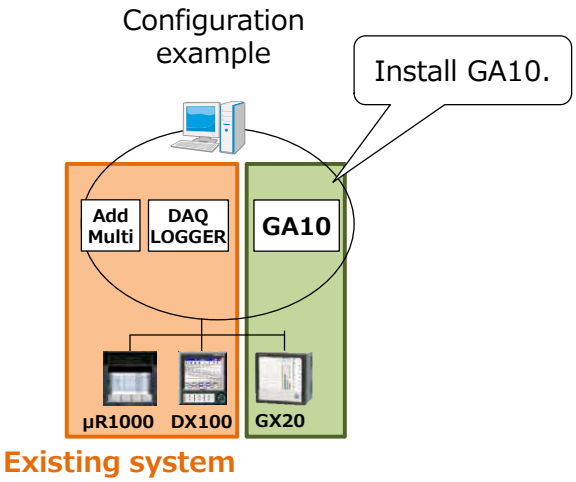
- There are two methods.
- (1) Mix GA10 with existing software
  You can use the current configuration and add GA10.
- (2) Connect GA10 as a host
  By integrating GA10 as a host to DAQWORX, collected data can be consolidated in GA10.

Use with existing software



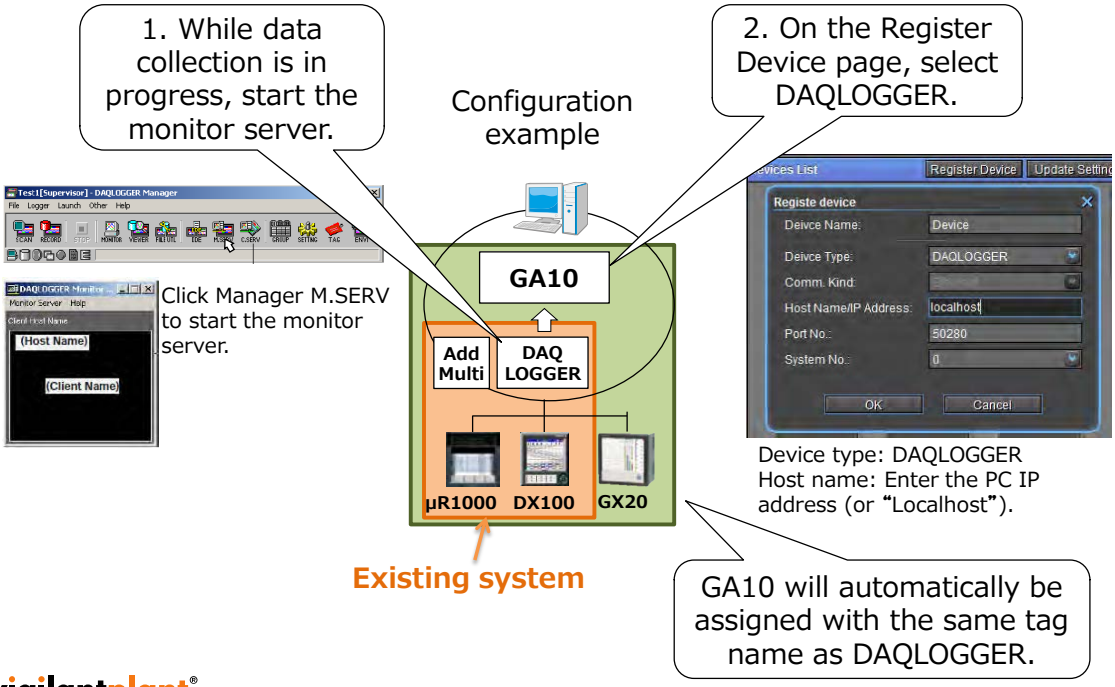
21. Using Existing Software with GA10 ((1) Mix GA10 with existing software)

- Install GA10 in the PC that you are using, and configure it.



22. Using Existing Software with GA10 ((2) Connect GA10 as a host)

- Data that DAQWORX Data Logger is collecting will be consolidated in GA10.



23. Functional Comparison with DAQWORX

		DAQLOGGER	DAQ32Plus	MXLOGGER	GA10
Basic features	Connectable devices	Many devices	Darwin	MX100	Many devices
	Number of device connections	32	1	20	100
	Number of measurement channels	1600ch	300ch	1200ch	2000ch
	Number of math channels	No	60ch	240ch	(TBA)
	Collection (scan) interval	1 s or more	0.5 s or more	10 ms or more	100 ms or more (10 ms or more)*
Logging	Trigger acquisition	Option	Option	Option	Yes
	Collection in groups (multilogging)	Option	Option	Option	Yes
Data processing (event processor)	Auto data conversion	Yes	Yes	Yes	Yes
	e-mail transmission	Yes	Yes	Yes	Yes SMTP authentication support
	FTP transfer	Yes	Yes	Yes	No
	Simple report output	Yes	Yes	No	No
Monitoring function	Remote monitoring (client)	Option	Option	Option	Option
	Graphic monitoring	Option	Option	Option	No
Device configuration/control	Device configuration	Yes	Yes	Yes	Standard software
	IO/AO module control	No	Yes	No	No
Utility	File merge, split, reconfigure	Yes	Yes	Yes	No
User privilege	User privilege	No	No	No	Yes
Other	DDE server	Yes	Yes	Yes	Yes

Revision Information

Title : GA10 Data Logging Software Setup Guide
Manual number : TI 04L65B01-02EN

January 2014/1st Edition
Newly published

Written by Yokogawa Electric Corporation
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