Replacement Guidebook (Software)

The 2nd Edition Dec.2021

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Update History

Date	Edition	Updated Slide	Description
2020/11/12		-	Newly created
2021/12/15	2	10	Add more information on the Notes of using the Convert Resolution.

Preface

For the supported software for each hardware, see "About Software compatibility" in "Replacement Guidebook (Hardware)".

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Agenda

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1. Replacement of GP-Pro EX to GP-Pro EX
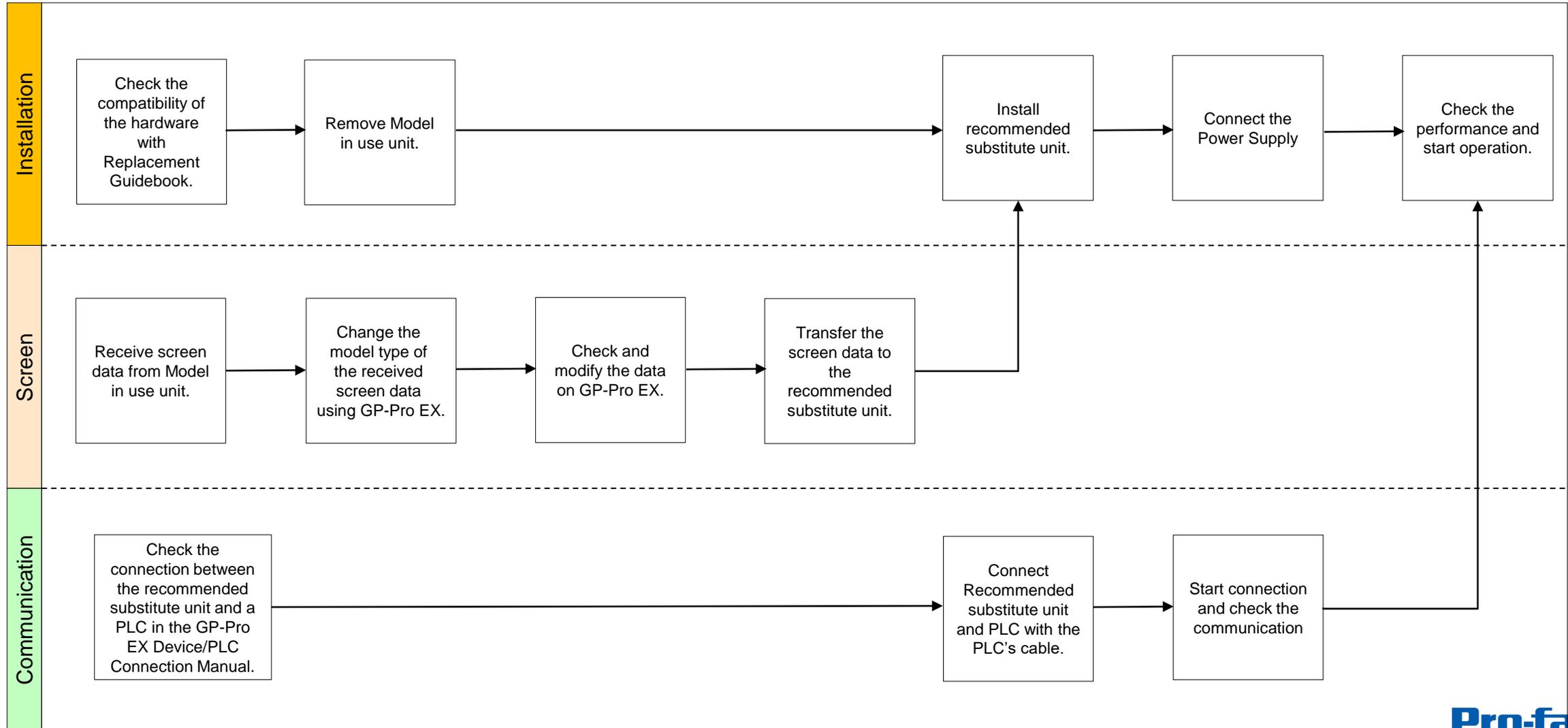
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Replacement Procedure –Work Flow-

Installation

Check the compatibility of the hardware with Replacement Guidebook. → Remove Model in use unit. → Install recommended substitute unit. → Connect the Power Supply → Check the performance and start operation.

Screen

Receive screen data from Model in use unit. → Change the model type of the received screen data using GP-Pro EX. → Check and modify the data on GP-Pro EX. → Transfer the screen data to the recommended substitute unit.

Communication

Check the connection between the recommended substitute unit and a PLC in the GP-Pro EX Device/PLC Connection Manual. → Connect Recommended substitute unit and PLC with the PLC's cable. → Start connection and check the communication

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Replacement Procedure –Preparation-

Requirements for receiving screen data from Model in use unit *1	PC in which GP-Pro EX Transfer Tool is installed. *2
	A USB transfer cable : CA3-USBCB-01(Type A- Type A) A USB data transfer cable : ZC9USCBMB1(Type A- Type mini B) *3 A commercial USB cable (Type A- Type mini B) *3 ※Possible to send/receive a screen via a SD card , a USB storage device or Ethernet.
Requirements for converting screen data of Model in use unit and transferring the converted data to Recommended substitute unit.	PC with GP-Pro EX installed *4
	Transfer Cable (The following Cables can be used.) A USB transfer cable : CA3-USBCB-01(Type A- Type A) A USB data transfer cable : ZC9USCBMB1(Type A- Type mini B) *3 A communication USB cable (Type A- Type mini B) *3 ※Possible to send/receive a screen via a SD card , a USB storage device or Ethernet.

*1: This step is required if screen data is saved only in the GP unit, not in any other device.
*2: Please use the same version or later as or than that of the software used during creating screens on GP-3500T/GP-3510T. If you don't know the version, we recommend you to use the newest version. For the newest version, you can download the transfer tool from our web site called [OtasukePro!] (http://www.pro-face.com/otasuke/download/freesoft/gpproex_transfer.htm).
*3: It can be used with GP4000 Series or later models.
*4: Please check the compatible version of each model from our website.   (https://www.proface.com/ja/product/soft/gpproex/supported_models)

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Replacement Procedure –Receive Screen data from Model in use unit (GP-Pro EX)-
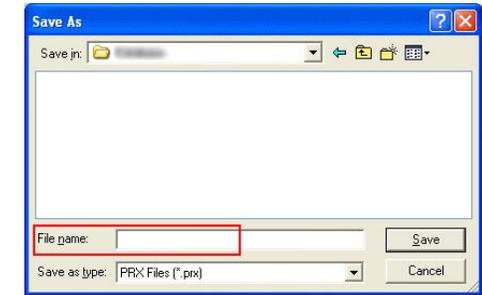
In this section, we will introduce how to receive screen data with a USB transfer cable as an example. If you have backed up screen data, this step is unnecessary, skip to the next section.

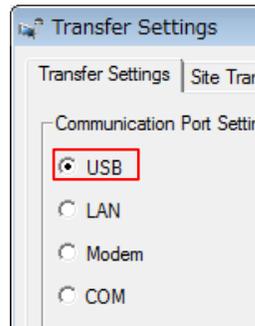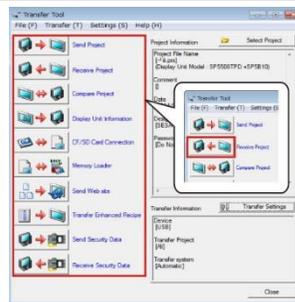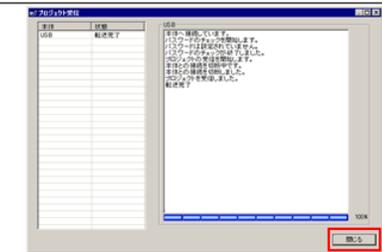|			
1. Connect your PC and Model in use unit with a USB transfer cable. If the driver of the cable has not been installed on your PC yet, a dialog box will appear. Please follow the instructions.		5. Click [Receive Project], and the following dialog box will appear. Specify a place to save the received data in and a project file name, and then click [Save] to start transfer.	
2. Start the Transfer Tool of GP-Pro EX.			
3. Make sure that the [Device] in the "Transfer Settings Information" is set to [USB]. If not, click the [Transfer Setting] button to open the "Transfer Setting" dialog box. Select [USB] in the Communication Port Settings field and click [OK].		6. The following dialog box appears during transfer and you can check the communication status. (The display unit enters the Transferring mode and communication with the device such as a PLC is terminated.)	
4. Start GP-Pro EX Transfer Tool and click the [Receive Project] button.		7. When transfer is completed, the status displayed in the dialog box will change from [Transferring] to [Complete Transfer]. Click [Close] to close the dialog box.	
		8. Close the Transfer Tool.	

Replacement Procedure

NOTES

1. The "Hardware Installation" dialog box as shown on the right may appear during installing the USB driver depending on the security level of Windows®. Click [Continue Anyway] to start installing the driver. When installation is completed, click [Finish].
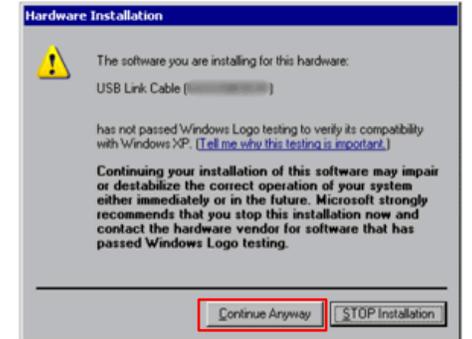
2. When a file exists, the window that confirms whether or not to overwrite the file will be displayed.
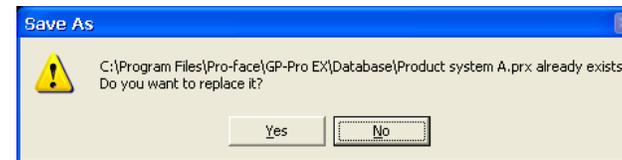
3. If you receive the project files that use SD card/ USB flash data such as Recipe Function (CSV data), the following dialog box will appear during transfer. Specify a place to save the SD card/USB flash data in. Click [OK], and the [Receive Project] dialog box will return and transfer will be completed.

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Replacement Procedure –Change model to recommended substitute unit (GP-Pro EX)-
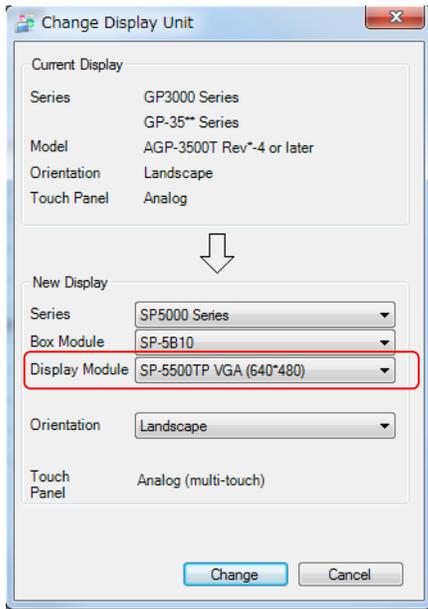
The Display Module can be Changed on the "Project" -> "System Settings" -> "Change Display Unit" screen of GP-Pro EX.

If you check on [Convert Resolution] when changing the Display Unit type (as shown below), you can adjust both size and location of the part and the text relative to the display resolution automatically. But please note that their width gets larger due to change of horizontal resolution of the screen area. In this case, confirm their size and location and adjust them if necessary. Please check some examples below.
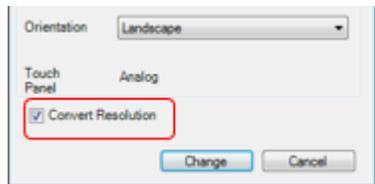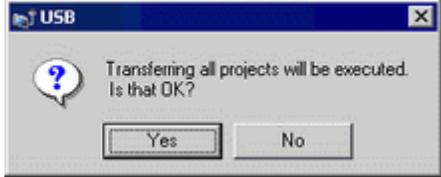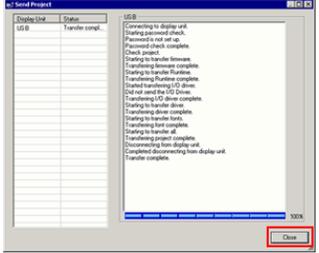
- A function that requires absolute coordinates. Please adjust the settings manually.
    - **Global window**
    - **Position Animation**
- Due to font size and resolution restrictions, manual changes may be required. Please resize them if needed
    - **Font:** In the case of using Standard font, the size will be smaller. You can improve by using Stroke font or Image font.
    - **Objects**
    - **Parts**
    - **Images**
    - **Alarm parts**
- Position may differ from the original project. Please check the coordinate of the window and adjust if needed.
    - **Window display**

Replacement Procedure –Transfer screen data to recommended substitute unit (GP-Pro EX)-
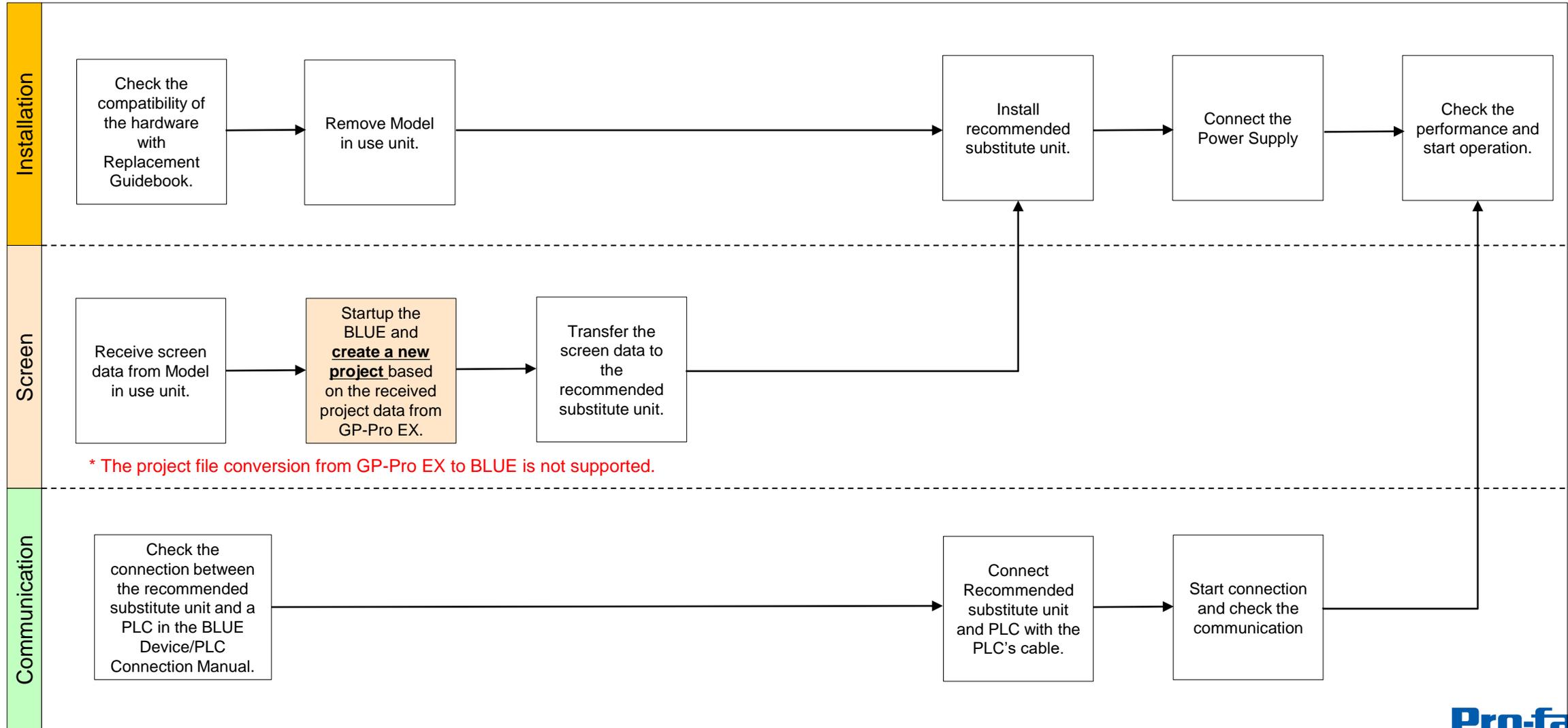
In this section, we will introduce how to transfer screen data with a USB transfer cable as an example.

1. Connect your PC and the recommended substitute unit with a USB transfer cable. If the driver of the cable has not been installed on you PC, a dialog box will appear. Please follow the instructions.

2. Turn on the power of Recommended substitute unit. The "Initial Start Mode" screen will appear on the display unit. After transferring a project file once, this screen will not appear again.
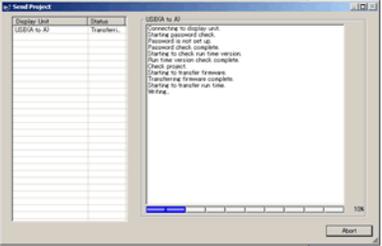
3. On the GP-Pro EX's State Toolbar, click the [Transfer Project] icon to open the Transfer Tool. To transfer a different project file, click the [Select Project] button and select a project file.

4. Make sure that the [Device] in the "Transfer Settings Information" is set to [USB]. If not, click the [Transfer Setting] button to open the "Transfer Setting" dialog box. Select [USB] in the Communication Port Settings field and click [OK].

5. Click [Send Project] to start transfer. When the following dialog box appears, click [Yes]. This dialog box doesn't appear when the same project file is sent again.

6. The following dialog box appears during transfer and you can check the communication status. (The display unit enters the Transferring mode and communication with the device such as a PLC is terminated.)

7. When transfer is completed, the status displayed in the dialog box will change from [Transferring] to [Complete Transfer]. Click [Close] to close the dialog box.

8. Close the Transfer Tool

9. Click the [X] mark on top right of the screen or [Project]->[Exit] to close GP-Pro EX.

2. Replacement of GP-Pro EX to BLUE

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Replacement Procedure –Work Flow-

Installation

| Check the compatibility of the hardware with Replacement Guidebook. | → | Remove Model in use unit. | | Install recommended substitute unit. | → | Connect the Power Supply | → | Check the performance and start operation. |

Screen

| Receive screen data from Model in use unit. | → | Startup the BLUE and **create a new project** based on the received project data from GP-Pro EX. | → | Transfer the screen data to the recommended substitute unit. |

* The project file conversion from GP-Pro EX to BLUE is not supported.

Communication

| Check the connection between the recommended substitute unit and a PLC in the BLUE Device/PLC Connection Manual. | | Connect Recommended substitute unit and PLC with the PLC's cable. | → | Start connection and check the communication |

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Replacement Procedure –Preparation-

Requirements for receiving screen data from Model in use unit *1	PC in which GP-Pro EX Transfer Tool is installed. *2
	A USB transfer cable : CA3-USBCB-01(Type A- Type A) A USB data transfer cable : ZC9USCBMB1(Type A- Type mini B) *3 A commercial USB cable (Type A- Type mini B) *3 ※Possible to send/receive a screen via a SD card , a USB storage device or Ethernet.
Requirement for creating new project and transferring the data to Recommended substitute unit.	PC with BLUE installed. *4
	Transfer Cable (The following Cables can be used.) A USB data transfer cable (for SP5000/GP4100) : ZC9USCBMB1(Type A- Type mini B) A commercial USB mini B transfer cable (for SP5000/GP4100) A USB transfer cable (for ST6000/STM6000) :PFXZUSCBMB2(Type A- Type micro B) A commercial USB micro B transfer cable (for ST6000/STM6000) ※Possible to send/receive a screen via a SD card , a USB storage device or Ethernet.

*1: This step is required if screen data is saved only in the GP unit, not in any other device.
*2: Please use the same version or later as or than that of the software used during creating screens on GP-3500T/GP-3510T. If you don't know the version, we recommend you to use the newest version. For the newest version, you can download the transfer tool from our web site called [OtasukePro!] (http://www.pro-face.com/otasuke/download/freesoft/gpproex_transfer.htm).
*3: It can be used with GP4000 Series or later models.
*4: Please check the compatible version of each model from below.

Series	Product Name	Model Number	Supported version
SP5000	SP-5B10 Power BOX	PFXSP5B10	BLUE V.3.0 or later
	SP-5B90 Xtreme Box	PFXSP5B90	BLUE V.3.1 SP1 or later
	SP-5B00 Standard Box	PFXSP5B00	BLUE V.3.1 SP1 or later
ST6000	ST-6*00WA	PFXST6*00WAD	BLUE V.3.1 or later
STM6000	STM-6*00WA	PFXSTM6*00WAD	BLUE V.3.1 SP1B or later
GP4100	GP-411*T	PFXGP411*T2D	BLUE V.3.0 or later
Pro-face IPC, PC/AT	-	-	BLUE V.3.0 or later

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Replacement Procedure –Receive Screen data from Model in use unit (GP-Pro EX)-
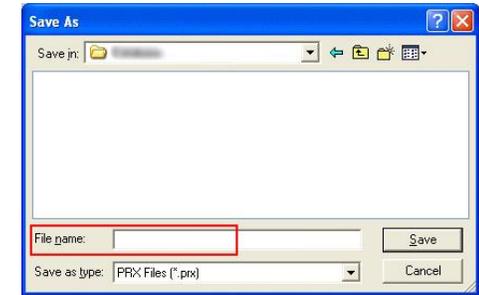
In this section, we will introduce how to receive screen data with a USB transfer cable as an example. If you have backed up screen data, this step is unnecessary, skip to the next section.

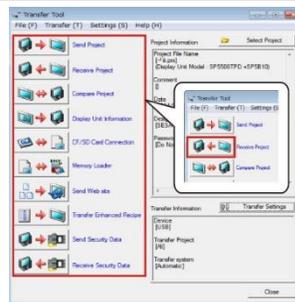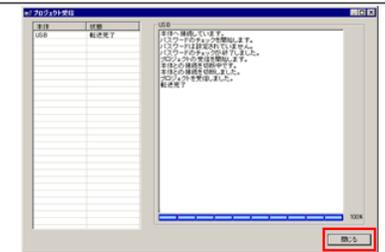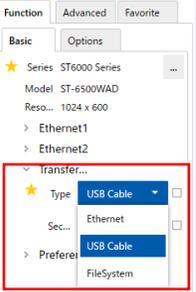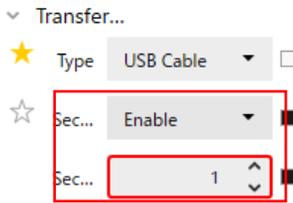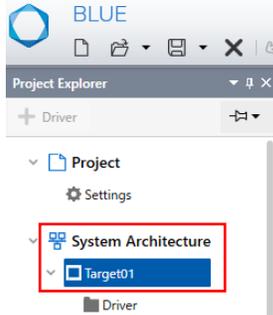|			
1. Connect your PC and Model in use unit with a USB transfer cable. If the driver of the cable has not been installed on your PC yet, a dialog box will appear. Please follow the instructions.		5. Click [Receive Project], and the following dialog box will appear. Specify a place to save the received data in and a project file name, and then click [Save] to start transfer.	
2. Start the Transfer Tool of GP-Pro EX.			
3. Make sure that the [Device] in the "Transfer Settings Information" is set to [USB]. If not, click the [Transfer Setting] button to open the "Transfer Setting" dialog box. Select [USB] in the Communication Port Settings field and click [OK].		6. The following dialog box appears during transfer and you can check the communication status. (The display unit enters the Transferring mode and communication with the device such as a PLC is terminated.)	
4. Start GP-Pro EX Transfer Tool and click the [Receive Project] button.		7. When transfer is completed, the status displayed in the dialog box will change from [Transferring] to [Complete Transfer]. Click [Close] to close the dialog box.	
		8. Close the Transfer Tool.	

Replacement Procedure –Transfer screen data to recommended substitute unit (BLUE)-

In this section, we will introduce how to transfer screen data with a USB transfer cable as an example.

1. Refer to the GP-Pro EX screen data received in advance and **create a new project with BLUE**.

2. Connect your PC and the recommended substitute unit with a USB transfer cable. If the driver of the cable has not been installed on you PC, a dialog box will appear. Please follow the instructions.

3. When the power of the recommended replacement model is turned on, the "Initial transfer mode" screen is displayed.
Once you transfer the project, this screen will not be displayed again.

4. Select "Target" from "System Settings" in the BLUE Project Explorer window.
If you want to transfer a different project file, you can click the "Open Project" button and select the project file.

5. In Properties window, go to [Function] tab → [Basic] tab and acknowledge that [Type] in [Transfer Method] is [USB Cable].

6. From the [Security Setting] select [Enable] and in the [Security Level] field set the security level required to perform transfer operations.

*In the [Security Setting] if [Disable] is selected, the project file is transferred without user authentication.

7. On the Application toolbar, click the icon.

8. The Download Manager dialog box displays the status. You will be prompted for a [User name] and [Password]. Enter the user name and password for a user that satisfies the required security level and click [OK].

9. Close the Download Manager dialog box after the transfer is complete.
After the project has been transferred successfully, the display unit restarts and runs the transferred project.