Programmable Terminal NB-series

Replace Guide
From NB to NB-V1

NB3Q-TW□□B-V1
NB5Q-TW□□B-V1
NB7W-TW□□B-V1
NB10W-TW01B-V1

V468-E1-02

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■ Introduction

This document offers guidance on replacing the NB Programmable Terminal with its successor model, the NB-V1. However, it does not include safety precautions. Before using the product, please ensure that you refer to the user's manuals for NB-series Programmable Terminals and thoroughly understand the safety guidelines and essential information.

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Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

CONTENTS

1 Related Manuals

The following manuals are related. Use these manuals for reference.

Cat. No.	Models	Manual name
V106	NB3Q-TW□□B(-V1) NB5Q-TW□□B(-V1) NB7W-TW□□B(-V1) NB10W-TW01B(-V1)	NB-series Programmable Terminals NB-Designer Operation Manual
V107	NB3Q-TW□□B(-V1) NB5Q-TW□□B(-V1) NB7W-TW□□B(-V1) NB10W-TW01B(-V1)	NB-series Programmable Terminals Setup Manual
V108	NB3Q-TW□□B(-V1) NB5Q-TW□□B(-V1) NB7W-TW□□B(-V1) NB10W-TW01B(-V1)	NB-series Programmable Terminals Host Connection Manual
V109	NB3Q-TW□□B(-V1) NB5Q-TW□□B(-V1) NB7W-TW□□B(-V1) NB10W-TW01B(-V1)	NB-series Programmable Terminals Startup Guide Manual

2 Precautions

2-1 Test Function

When executing the Test Function on a PC, it exhibits distinct behaviors compared to the actual NB running system. Potential issues may arise due to communication timing, cable variations, and unforeseen PC conditions (such as freezing). Before performing the Test Function, it is essential to account for any unexpected situations on the actual NB running system and ensure that no hazardous events will occur.

3 Applicable models and specifications

3-1 Applicable models

Discontinued Products		Recommended Replacements
Programmable Terminal		Programmable Terminal
NB3Q-TW00B	→	NB3Q-TW00B-V1
NB3Q-TW01B		NB3Q-TW01B-V1
NB5Q-TW00B		NB5Q-TW00B-V1
NB5Q-TW01B		NB5Q-TW01B-V1
NB7W-TW00B		NB7W-TW00B-V1
NB7W-TW01B		NB7W-TW01B-V1
NB10W-TW01B		NB10W-TW01B-V1

3-2 Specifications

■ Body Color

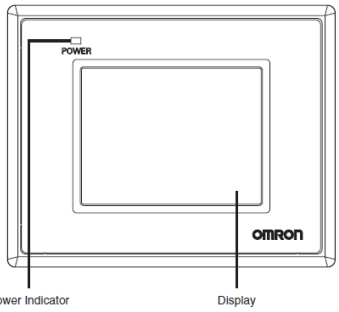
Product models to be discontinued NB□□-TW□□B	Recommended replacement models NB□□-TW□□B-V1
Black	Black

■ Terminals/ Wire connection

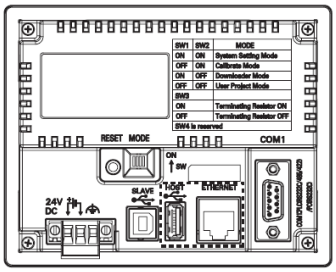
Product models to be discontinued
NB□□-TW□□B

● **NB3Q-TW00B/NB3Q-TW01B model**

Front view



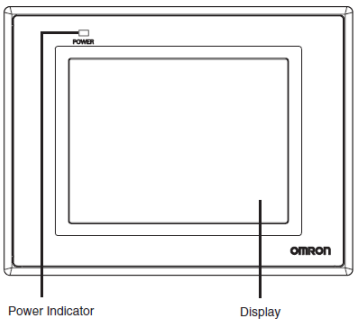
Back view



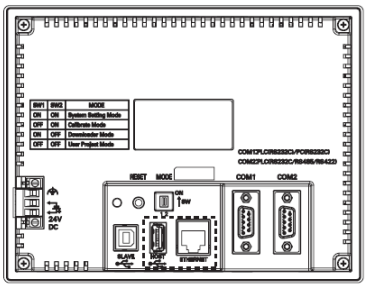
: NB□□-TW01B only

● **NB5Q-TW00B/NB5Q-TW01B model**

Front view



Back view

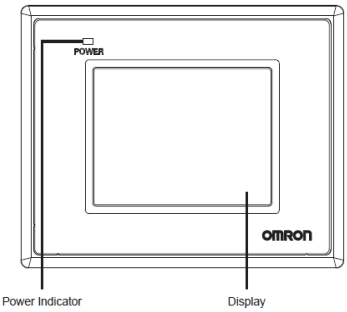


: NB□□-TW01B only

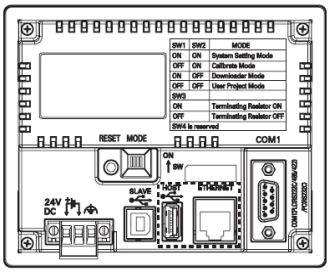
Recommended replacement models
NB□□-TW□□B-V1

● **NB3Q-TW00B -V1 /NB3Q-TW01B -V1 model**

Front view



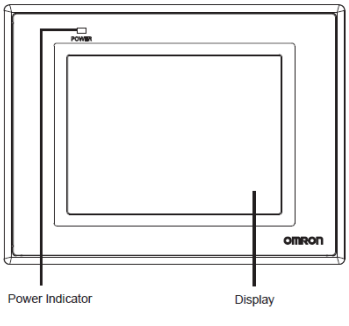
Back view



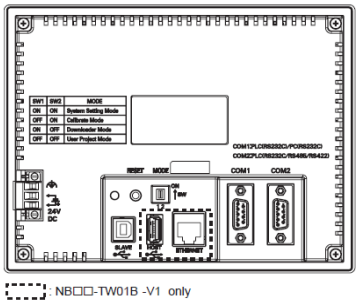
: NB□□-TW01B -V1 only

● **NB5Q-TW00B -V1 /NB5Q-TW01B -V1 model**

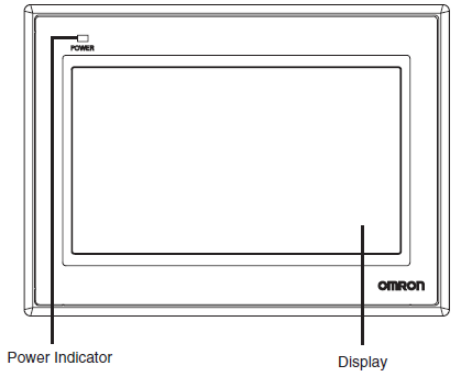
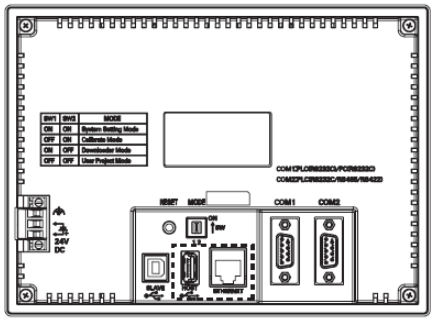
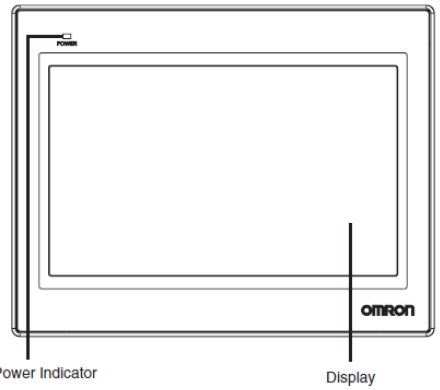
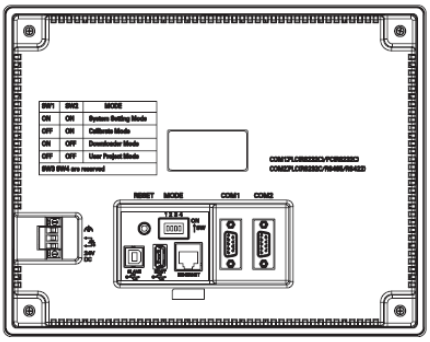
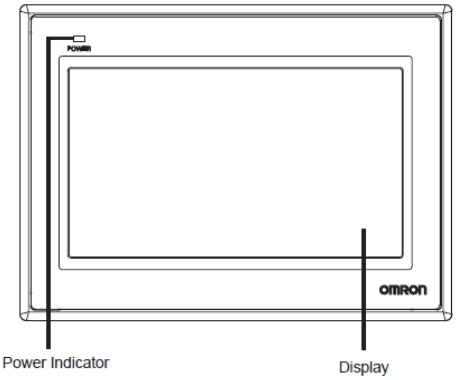
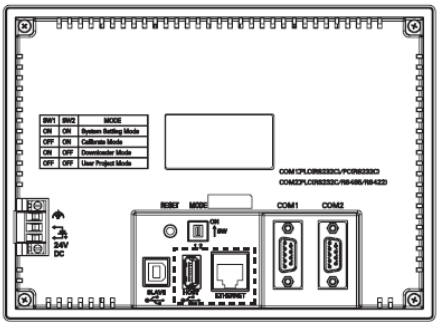
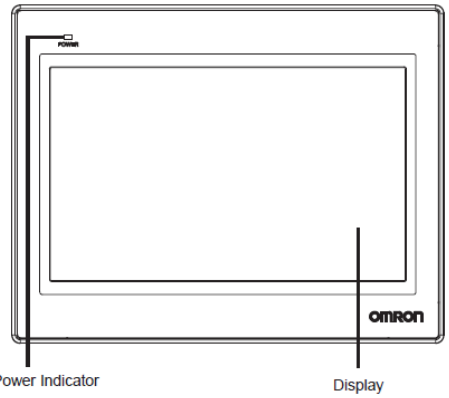
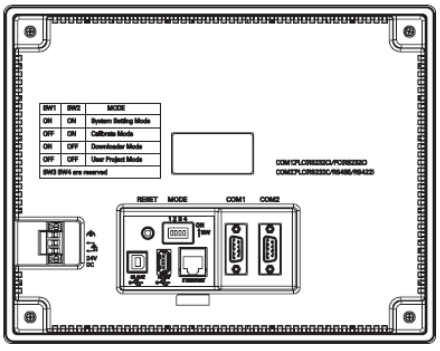
Front view



Back view



: NB□□-TW01B -V1 only

Product models to be discontinued NB□□-TW□□B	Recommended replacement models NB□□-TW□□B-V1
● NB7W-TW00B/NB7W-TW01B model Front view  Back view  : NB□□-TW01B only ● NB10W-TW01B model Front view  Back view  	● NB7W-TW00B -V1 /NB7W-TW01B -V1 model Front view  Back view  : NB□□-TW01B -V1 only ● NB10W-TW01B -V1 model Front view  Back view 

■Mounting dimensions

Discontinued Products NB□□-TW□□B	Recommended Replacements NB□□-TW□□B -V1
NB3Q-TW□□B **Panel cutout** 119.0(+0.5/-0) (W), 93.0(+0.5/-0) (H) Panel thickness: 1.6 to 4.8mm	**NB3Q-TW□□B -V1** **Panel cutout** 119.0(+0.5/-0) (W), 93.0(+0.5/-0) (H) Panel thickness: 1.6 to 4.8mm
NB5Q-TW□□B **Panel cutout** 172.4(+0.5/-0) (W), 131.0(+0.5/-0) (H) Panel thickness: 1.6 to 4.8mm	**NB5Q-TW□□B -V1** **Panel cutout** 172.4(+0.5/-0) (W), 131.0(+0.5/-0) (H) Panel thickness: 1.6 to 4.8mm
NB7W-TW□□B **Panel cutout** 191.0(+0.5/-0) (W), 137.0(+0.5/-0) (H) Panel thickness: 1.6 to 4.8mm	**NB7W-TW□□B -V1** **Panel cutout** 191.0(+0.5/-0) (W), 137.0(+0.5/-0) (H) Panel thickness: 1.6 to 4.8mm
NB10W-TW□□B **Panel cutout** 258.0(+0.5/-0) (W), 200.0(+0.5/-0) (H) Panel thickness: 1.6 to 4.8mm	**NB10W-TW□□B -V1** **Panel cutout** 258.0(+0.5/-0) (W), 200.0(+0.5/-0) (H) Panel thickness: 1.6 to 4.8mm

■Dimensions

Discontinued Products NB□□-TW□□B	Recommended Replacements NB□□-TW□□B -V1
NB3Q-TW□□B 129.8×103.8×52.8 (mm)	**NB3Q-TW□□B -V1** 129.8×103.8×52.8 (mm)
NB5Q-TW□□B 184.0×142.0×46.0 (mm)	**NB5Q-TW□□B -V1** 184.0×142.0×46.0 (mm)
NB7W-TW□□B 202.0×148.0×46.0 (mm)	**NB7W-TW□□B -V1** 202.0×148.0×46.0 (mm)
NB10W-TW□□B 268.8×210.8×54.0 (mm)	**NB10W-TW□□B -V1** 268.8×210.8×54.0 (mm)

■ Characteristics

Item	Discontinued Products NB□□-TW□□B							Recommended Replacements NB□□-TW□□B -V1						
	NB3Q		NB5Q		NB7W		NB10W	NB3Q-V1		NB5Q-V1		NB7W-V1		NB10W-V1
	00	01	00	01	00	01	01	00	01	00	01	00	01	01
Display device	TFT LCD							TFT LCD						
Resolution	QVGA 320×240		QVGA 320×234		WVGA 800×480			QVGA 320×240		QVGA 320×240		WVGA 800×480		WSVGA 1024×600
Color	65536 colors							65536 colors						
Support software	NB-Designer Ver. 1.531 or lower							NB-Designer Ver1.60 or higher						
External Interfaces	Ethernet ports (Only NB□□-TW01B supports), USB host port, USB slave port *1, Serial port (2 ports, 1 port for NB3Q)							Ethernet ports (Only NB□□-TW01B-V1 supports), USB host port, USB slave port *1, Serial port (2 ports, 1 port for NB3Q)						
External storage device	USB Memory Device (Only for -TW01B)							USB Memory Device (Only for -TW01B-V1)						
Backlight life	50,000 hours min.							50,000 hours min.						
Ambient operating temperature	0 to 50℃							0 to 50℃						
Communications method	Host Link, Ethernet *2							Host Link, Ethernet *2						

*1 NB-V1 does not support printing functions.

To print the screen, follow these steps: Capture a screenshot of the NB-Designer screen. Print the screenshot.

*2 Please Refer to NB-series Programmable Terminals Host Connection Manual for connection details

4 Workflow

4-1 Workflow

The replacement procedure with NB-V1 is as follows. Operations in ■ are explained from the next page.

4-2 Preparation

- 4-2-1 Confirmation of replaceability
- 4-2-2 Uploading the project from the existing NB
- 4-2-3 Converting the project for NB-V1

4 -3 Removing the currently installed NB

- 4-3-1 Turning OFF the power to the currently installed NB
- 4-3-2 Removing all cables
- 4-3-3 Removing the storage devices
- 4-3-4 Removing the currently installed NB from the operation panel

4-4 Installing NB-V1

- 4-4-1 Installing the NB-V1 to the operation panel
- 4-4-2 Wiring the cables
- 4-4-3 Installing the storage devices

4-5 Start-up

- 4-5-1 Turning ON the power to the NB-V1
- 4-5-2 Downloading the project to the NB-V1
- 4-5-3 Checking the settings and communications
- 4-5-4 Starting operation

4-2 Preparation

4-2-1 Confirmation of replaceability

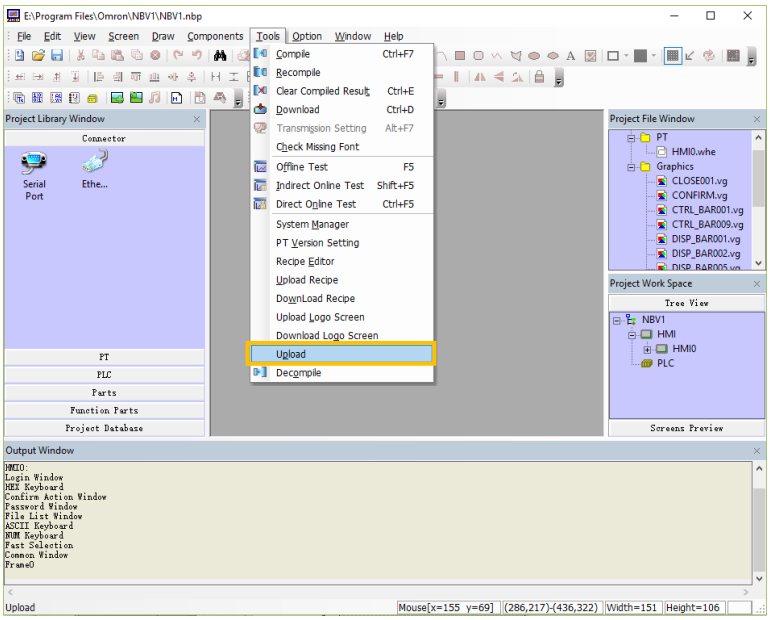
Refer to “NB-series Programmable Terminals Host Connection Manual” (V108-E1) if the currently used PLC is supported by the NB-V1.

Create a backup copy using version 1.53: When a project is opened with NB-Designer V1.60 or higher, the format is changed and will not be compatible anymore with older versions. Please, make a backup before opening it.

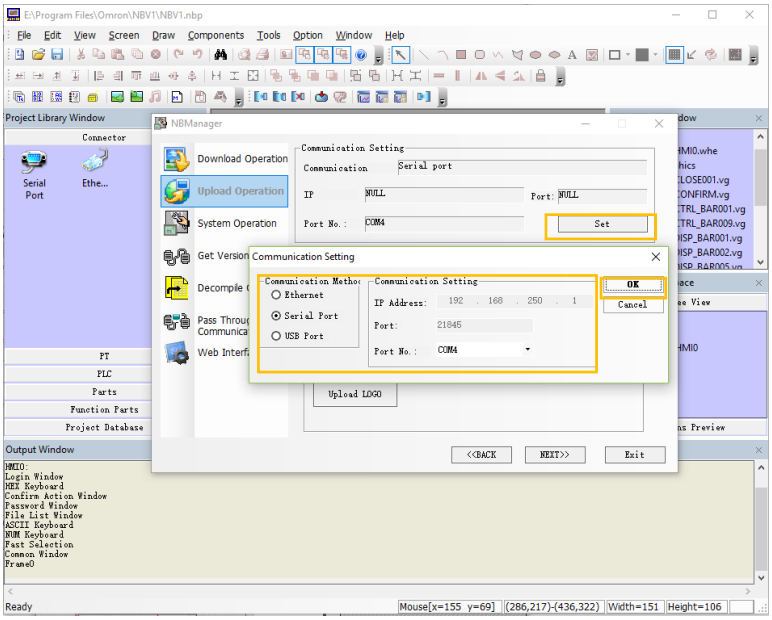
4-2-2 Uploading the project from the existing NB

Start the NB-Designer. *NB-Designer Ver.1.60 or higher must be installed in the computer.	
1. The procedures in this chapter assume that uploading and decompiling are enabled in the settings of the screen data transferred to the NB. A password is also required for uploading and decompiling. Please use the password set at the time of screen transfer. *The default password for upload is 888888.	

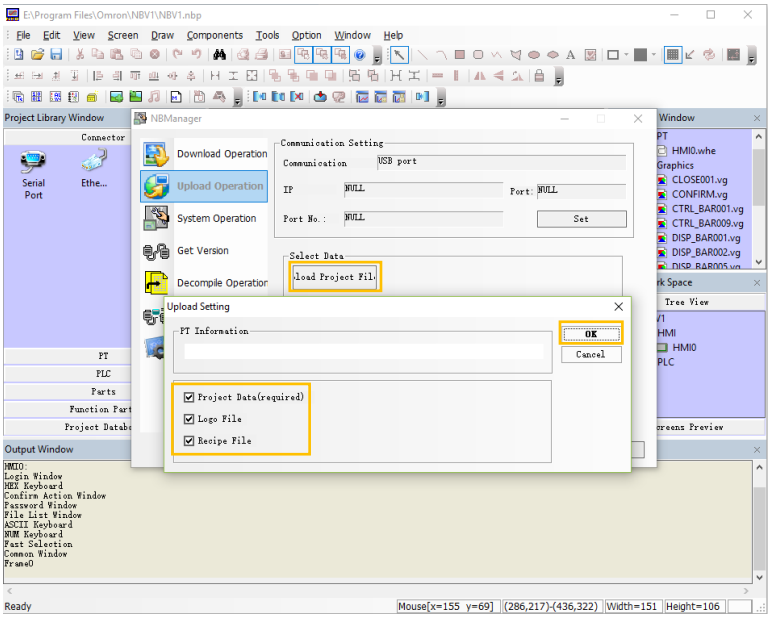
2. Select Upload from the Tools Menu.



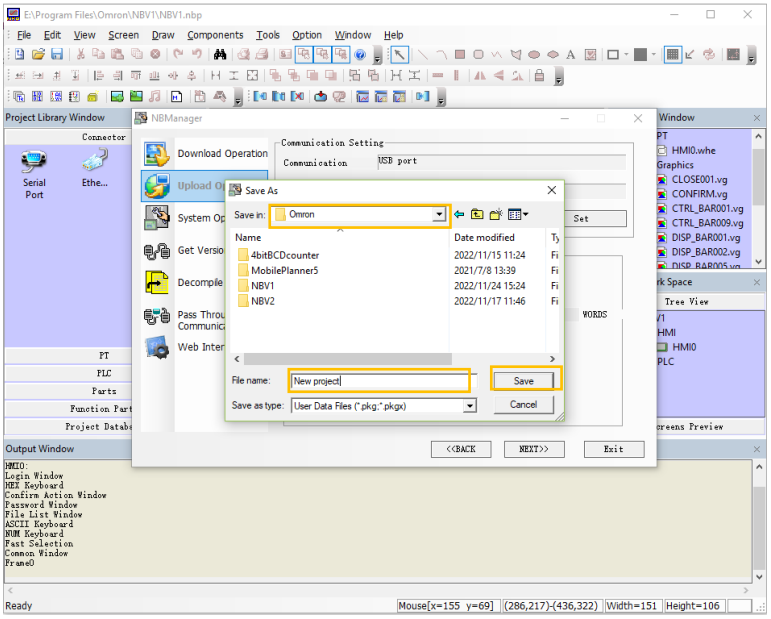
3. Select Set button, choose Communication Method and press OK button.



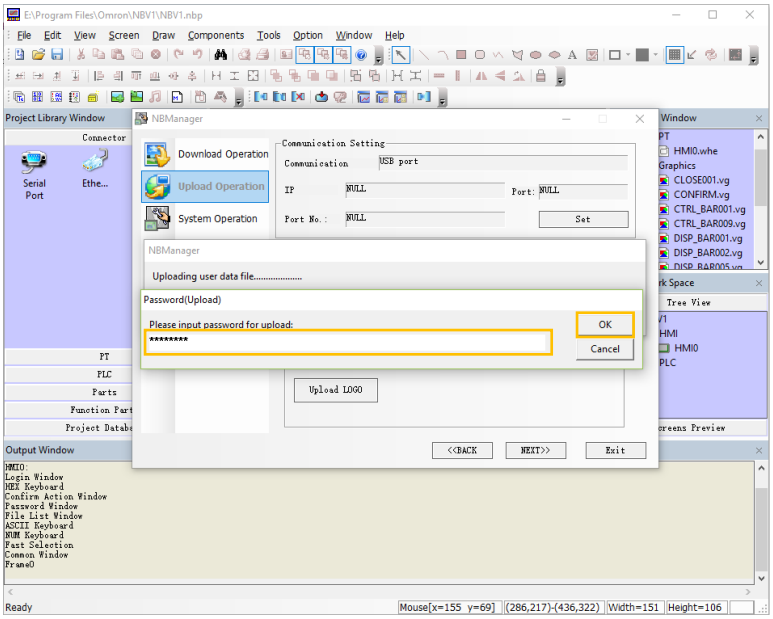
4. Press Upload Project File. Select Project Data , Logo File and Recipe File as needed.



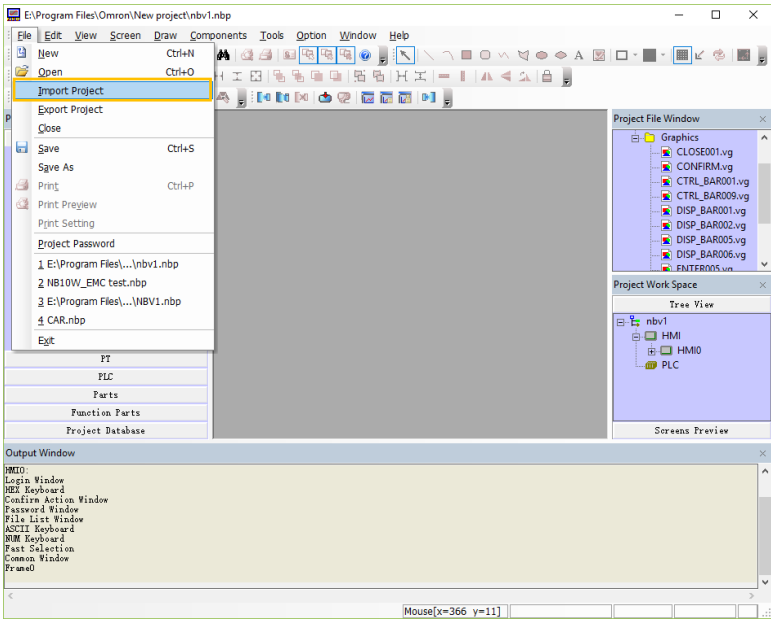
5. Input the project name, and specify save destination then select the Save Button.

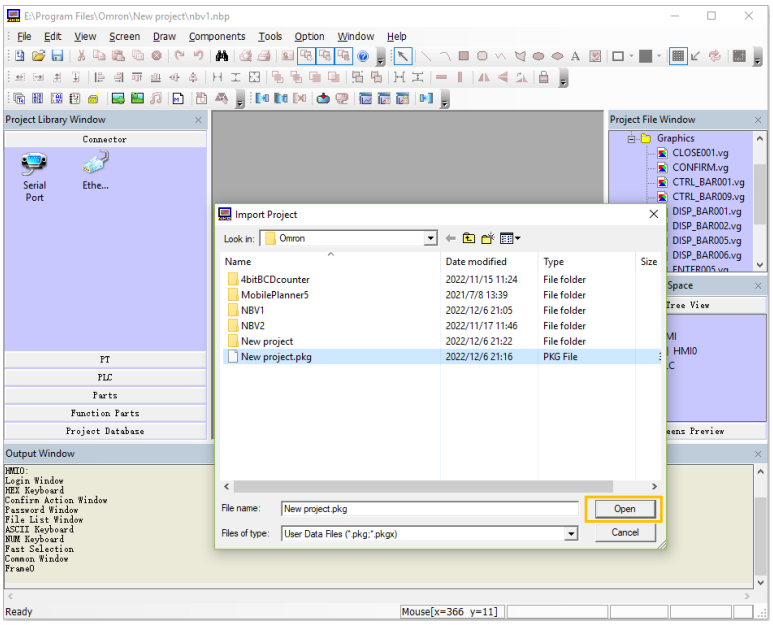
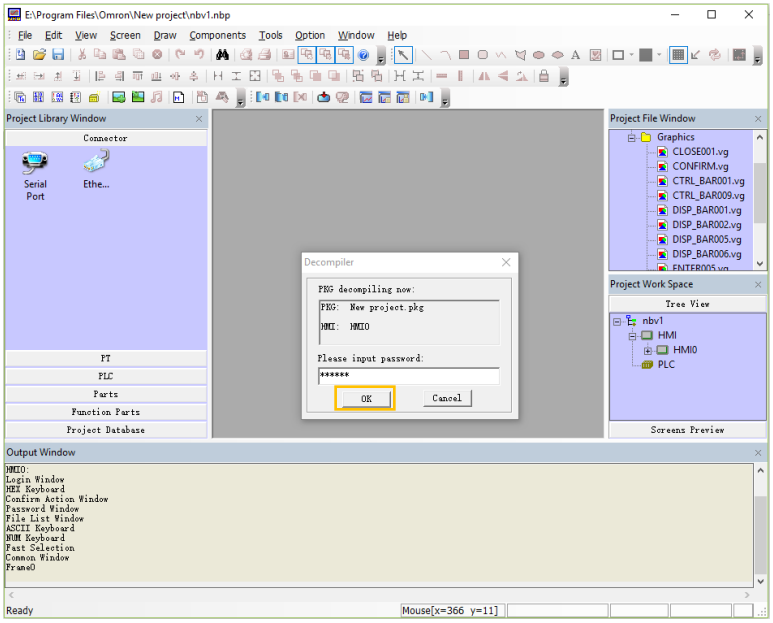


6. Input password for upload, then press OK button. The file is saved in the specified folder.



7. Select Import Project from the HMI Menu.



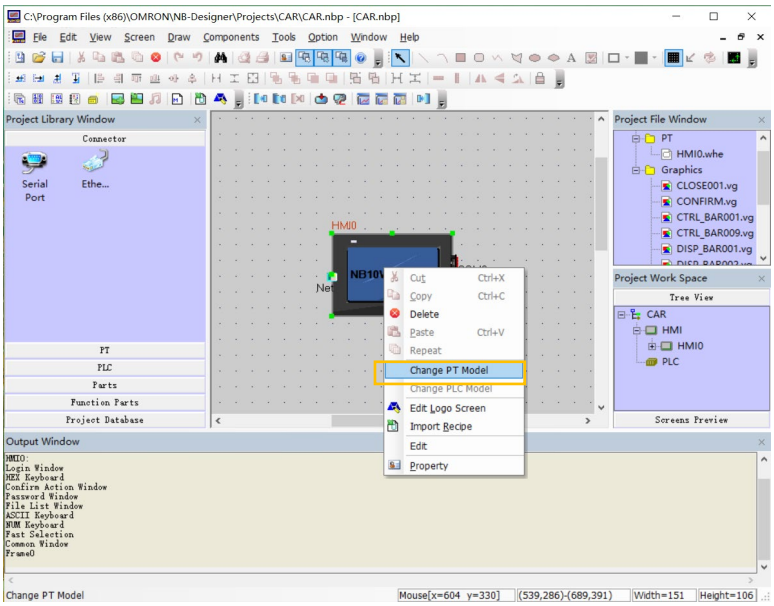
8. Select the upload .pkg file, press Open button.	
9. Input password, press the OK button. The file is open.	
Go to *4-2-3 Converting the project for NB-V1.*	-

4-2-3 Converting the project for NB-V1

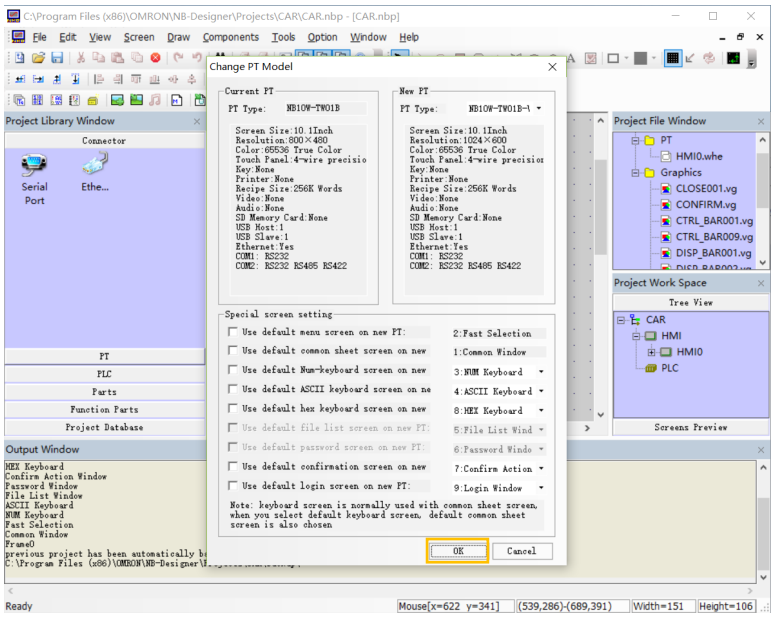
1. While the NB-Designer is in offline state and the uploaded project is opened, right-Select the HMI Icon and select Change PT model from the menu.

   ＊*NB5Q and NB10W have different resolutions. Please check the screen.

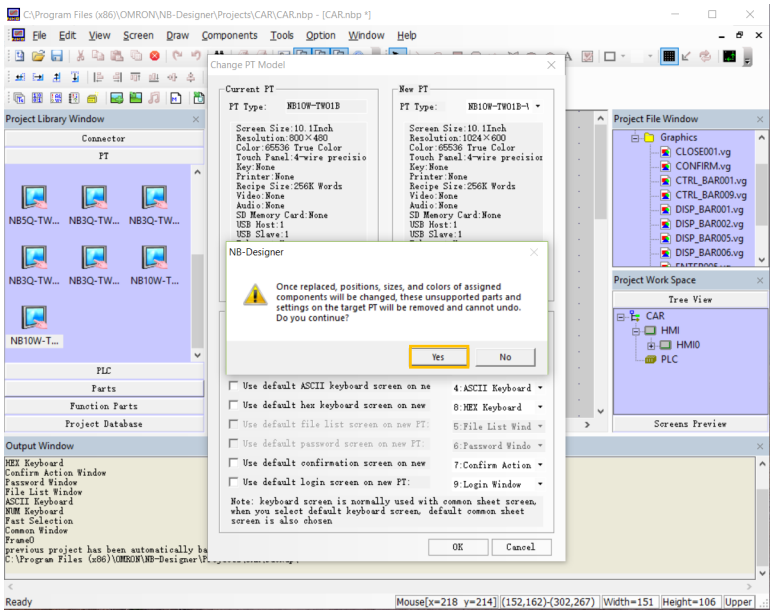
   After the PT is replaced, the original user edit screen will be adjusted by related scales according to the difference of the resolution of various types. All the components with screen display will adjust automatically. For example, all the components (such as the bitmaps, Vector Graphics, button and lamp, etc.) with location and size adjustments can all change their sizes automatically. However, note that there are a few exceptions: as the font size of text strings and label can't be changed, the components using text strings and label will be restricted to mainly display the text in the minimum display area when size changes, especially when it becomes smaller as square components like the Analog Meter change sizes in a "square" way, the changed sizes may disrupt the proportion among the component sizes, therefore it requires a second fine-adjustment by the user.



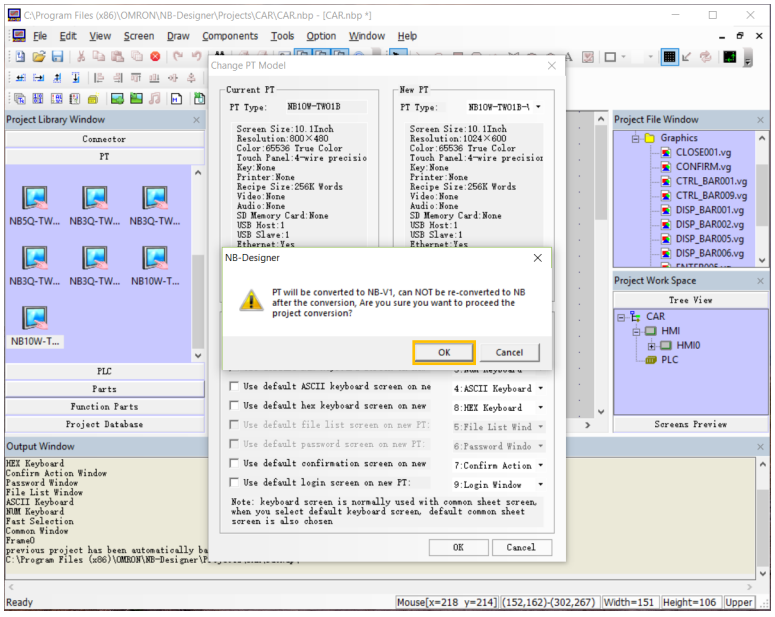
2. Select NB-V1 device model, and then Select the OK Button.
*The NB-V1 project data cannot be converted to NB project.



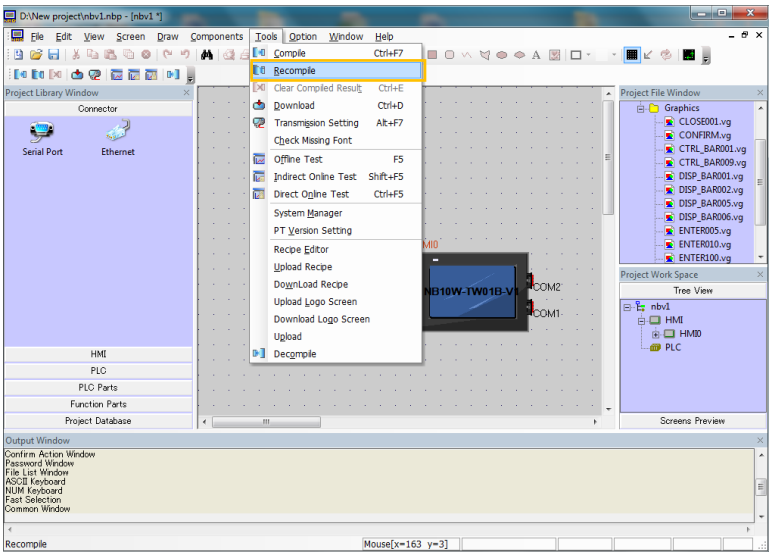
3. The warning message is displayed. Select the YES Button.
*This message is displayed when the device is changed.



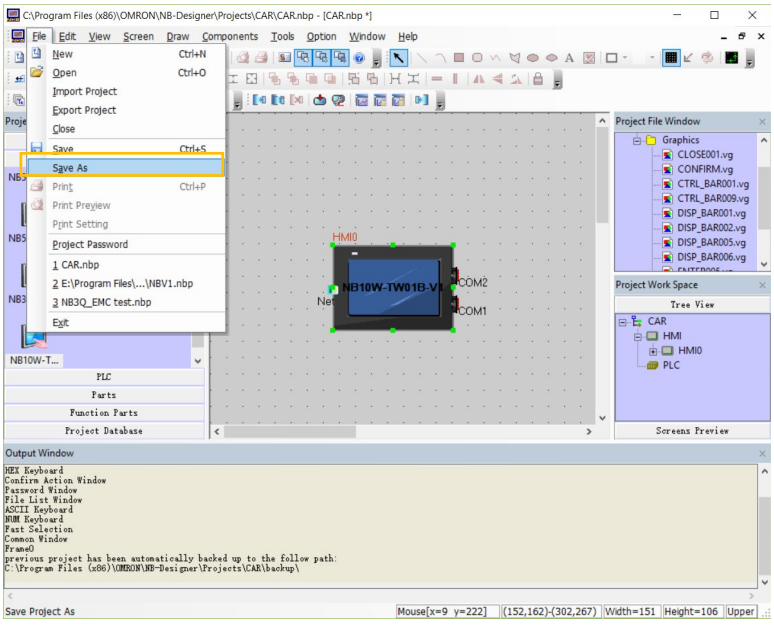
4. The warning message is displayed. Select the OK Button.
*This message is displayed when the device version is updated.
*Go to No.5, if you are exporting the NB-V1 project. Go to *4-3 Removing the currently installed NB* if you do not have to export the project.
Export operation is performed to save the NB-V1 project.



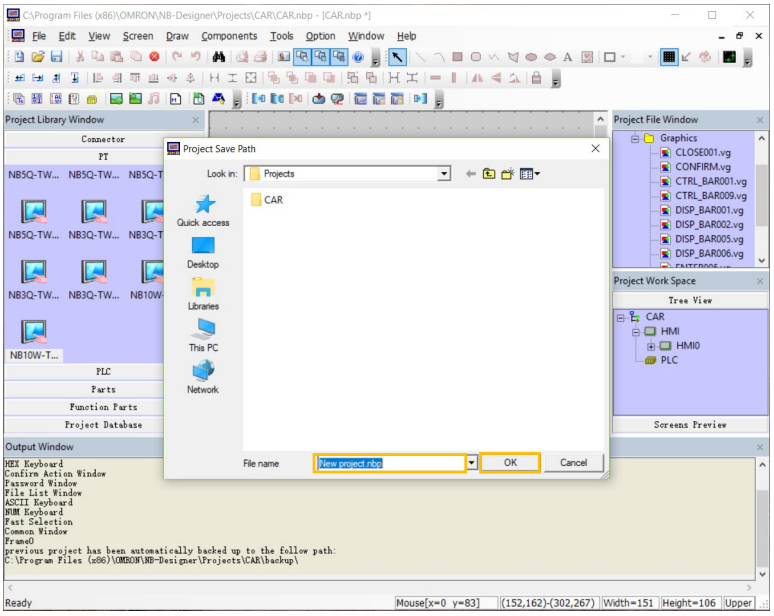
5. Select Recompile from Tools menu.

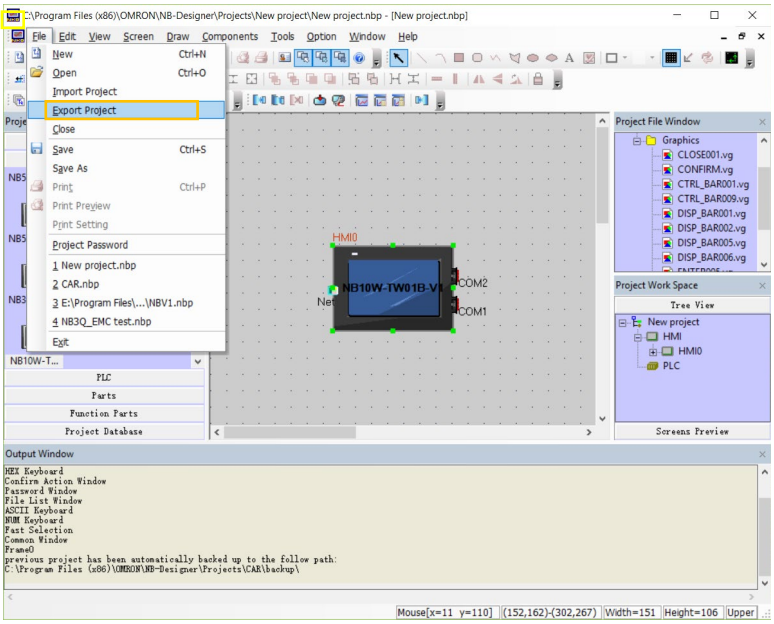
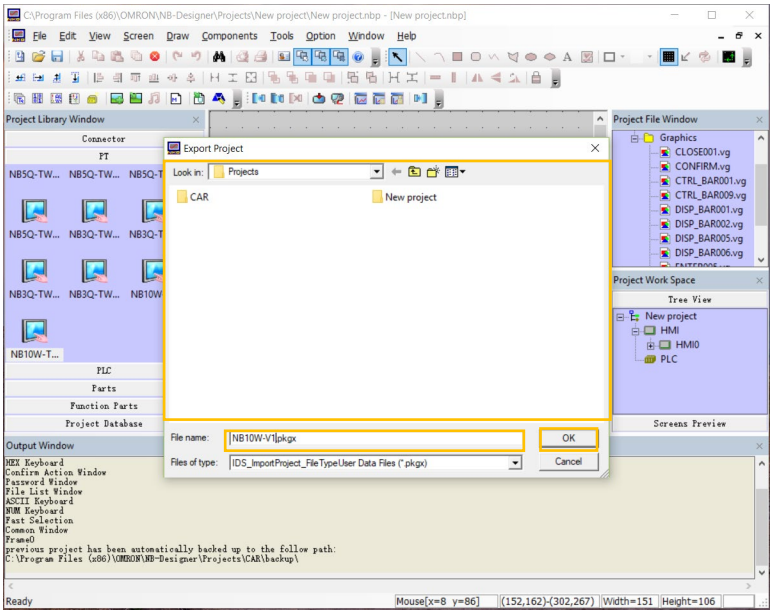


6. Select Save As from the File Menu.



7. Input the project name, and then Select the OK Button.



8. Select Export Project from the File Menu.	
9. Specify export destination, input the file name, and then Select the OK Button. The project file is saved in the specified folder.	
10. Go to *4-3 Removing the currently installed NB.*	-

4-3 Removing the currently installed NB

4-3-1 Turning OFF the power to the currently installed NB

Turn OFF the 24V DC power supply to the NB.

4-3-2 Removing all cables

Remove all the cables connected to the NB.

4-3-3 Removing the storage devices (if used)

Remove the USB memory.

4-3-4 Removing the currently installed NB from the operation panel

Remove the currently installed NB from the operation panel.

4-4 Installing NB-V1

4-4-1 Installing the NB-V1 to the operation panel

Mount the NB-V1 to the operation panel using panel mounting brackets and a screwdriver.

4-4-2 Wiring the cables

Connect all the cables for the NB-V1.

4-4-3 Installing the storage devices (If necessary)

Install the USB memory.

4-5 Start-up

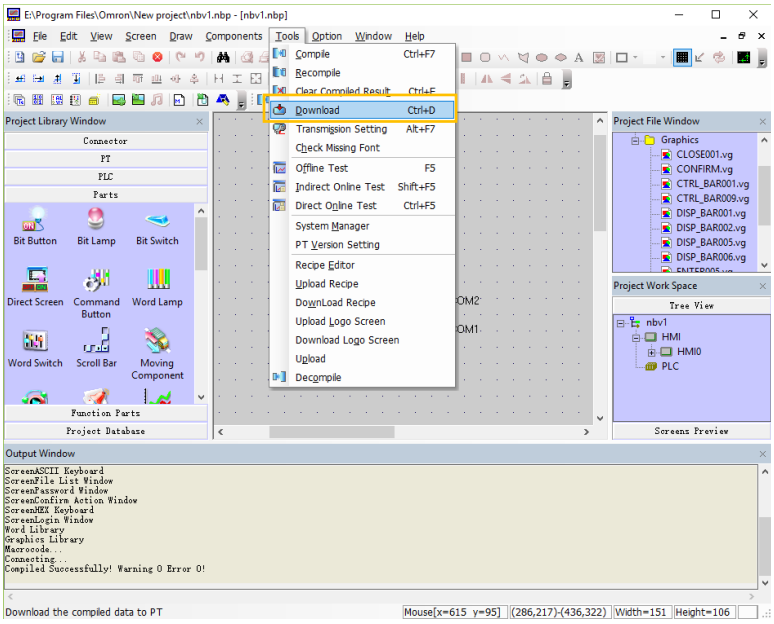
4-5-1 Turning ON the power to the NB-V1

Turn ON the 24V DC power supply to the NB-V1.

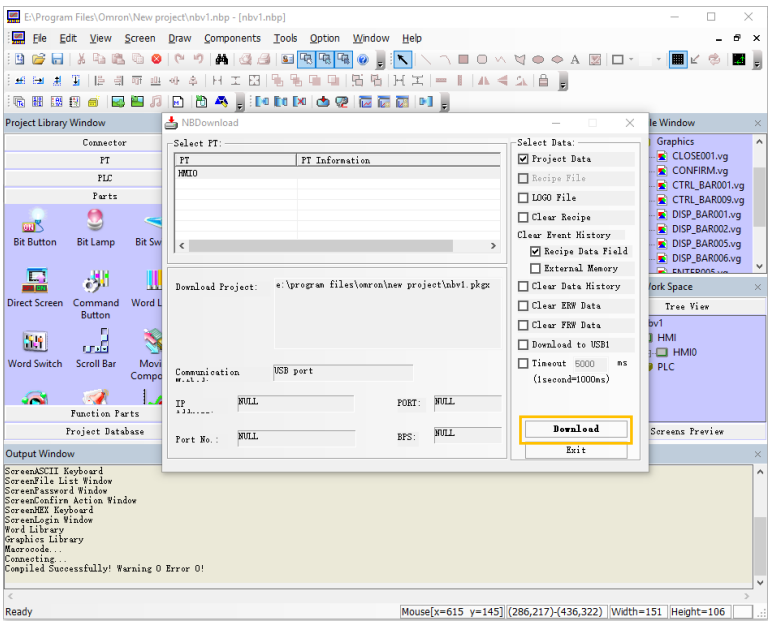
4-5-2 Downloading the project to the NB-V1

If you download the project with a USB cable, you need to install the driver.
For details on how to install the USB driver, refer to "2-4 Installation of USB driver for NB" in "NB-Designer Operation Manual" (V106-E1).

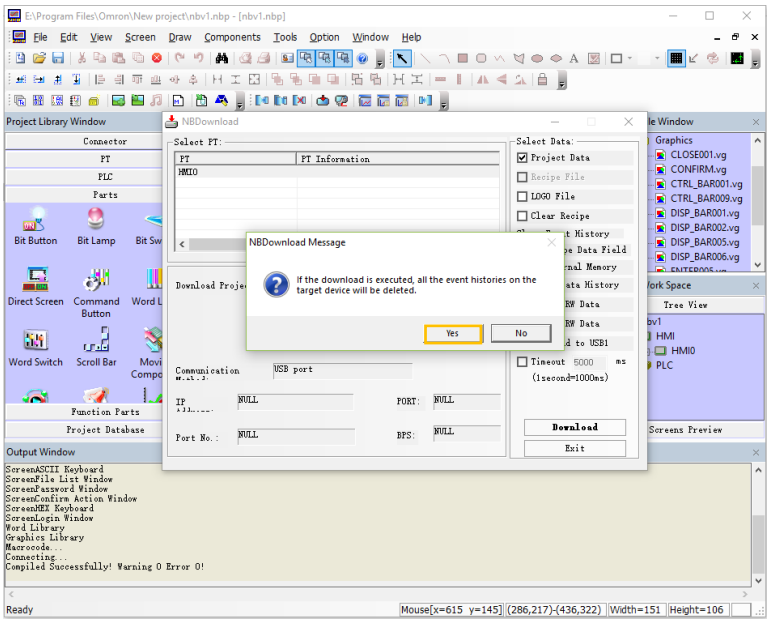
1. Select Download from the Tools Menu, while the project converted for the NB-V1 is opened.



2. Press Download button.



3. Select the Yes Button. The data is downloaded, and the HMI restarts.



4-5-3 Checking the settings and communications

Run the project on the actual system and check that correct values are written to the connected device, the pages change correctly, and values set at the connected device are updated.

4-5-4 Starting operation

Start actual operation.

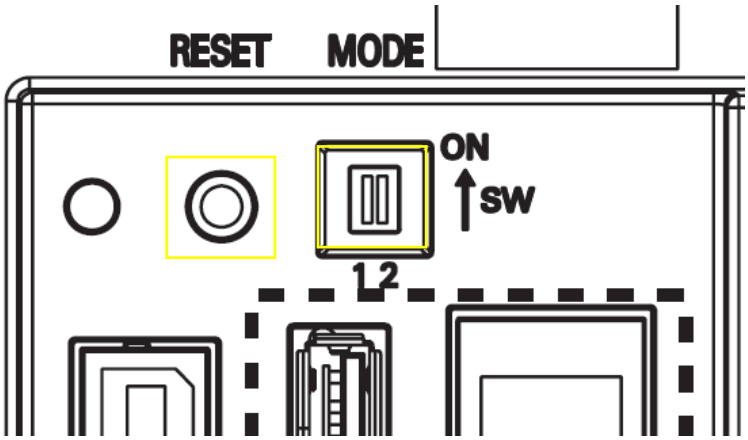
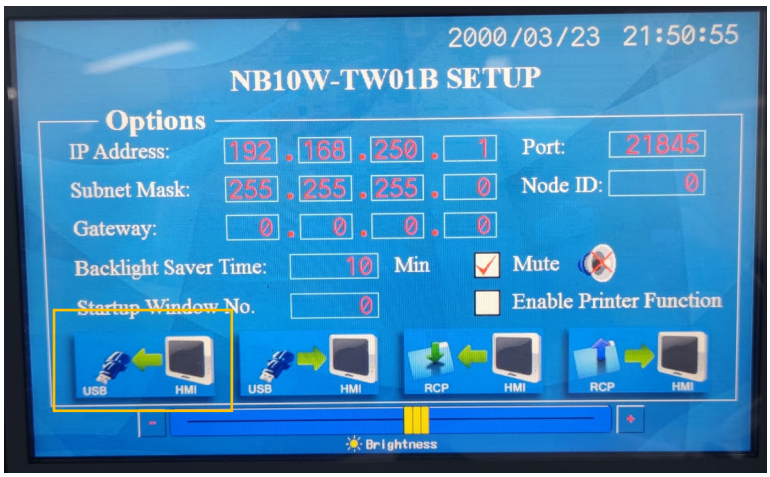
Appendix-1 Transferring project data by using a media device

Even if NB-Designer is not available, project files can be transferred by using a media device.
**NB-Designer is required for screen conversion.

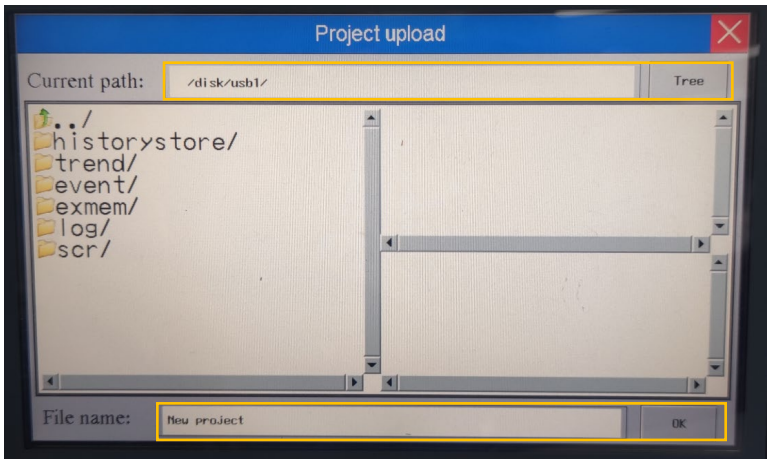
4-2-2 Uploading the project from the existing NB -> Go to A-1-1
4-5-2 Downloading the project to the NB-V1 -> Go to A-1-2

These functions are described in the following sections.

A-1-1 Uploading by using a storage media

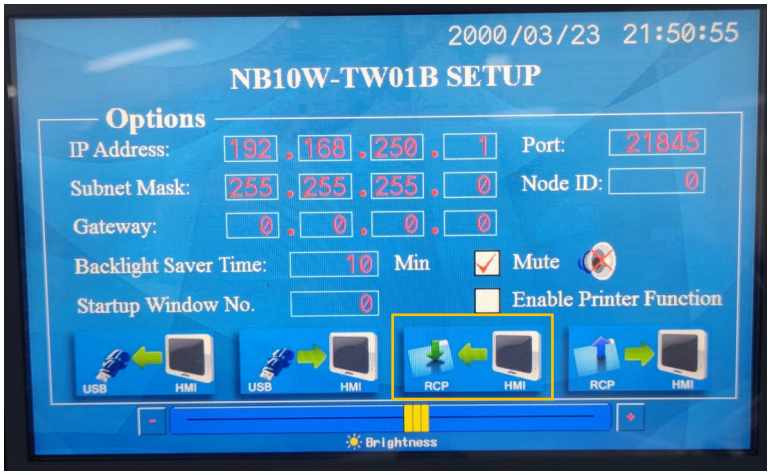
1. Insert the USB memory device to use for the upload into the computer.	
2. Enter the System Setting Mode following the procedures below. (1) Set both the DIP switches SW1 and SW2 on the back side to ON. (2) Press the Reset switch, restart the NB Unit, and then it enters into the System Setting Mode.	
3. Touch the USB←HMI button. *Uploads the user project file required by the PT operation to the USB memory.	

4. Specify the destination media and file name and touch the OK Button. The project is uploaded to the specified media.

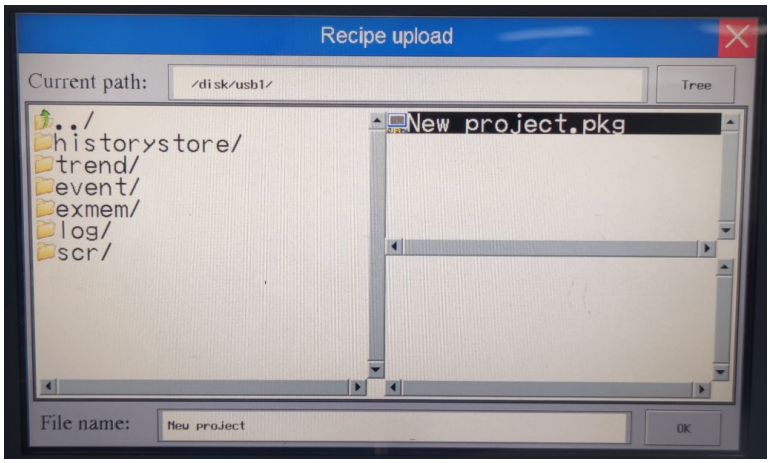


5. Input password. The upload password is required during the export. If the upload password is not set, it needs to use the default password of 888888.

6. Touch the RCP←HMI button. *Uploads the user project file required by the PT operation to the USB memory.



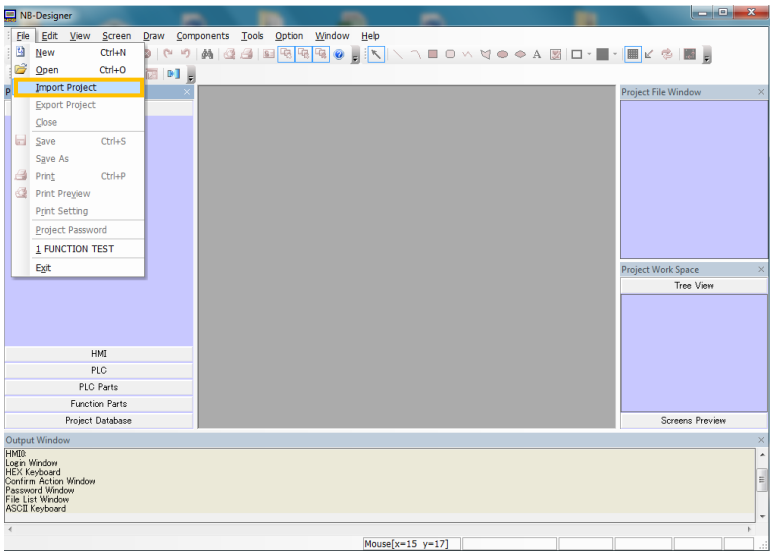
7. Specify the destination media and file name and touch the OK Button. The recipe is uploaded to the specified media.



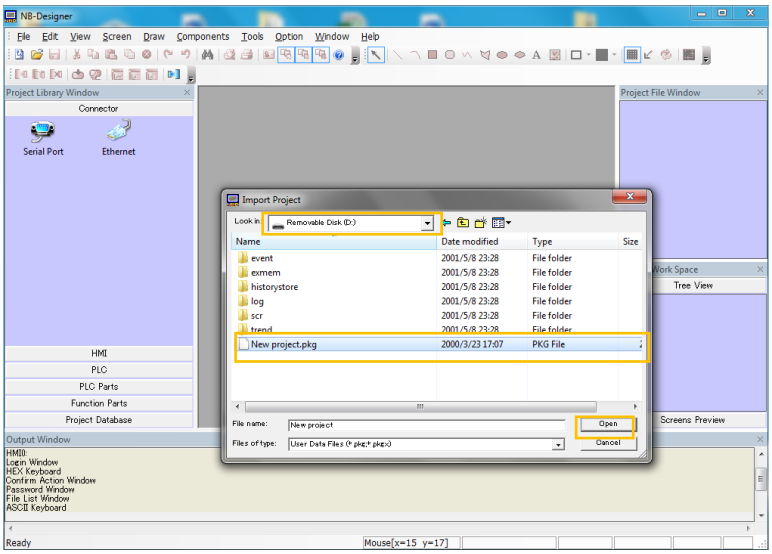
8. Remove the media from the NB.

9. Insert the media device to which the project was uploaded to the computer and start the NB-Designer .
*NB-Designer Ver.1.60 or higher must be installed in the computer.

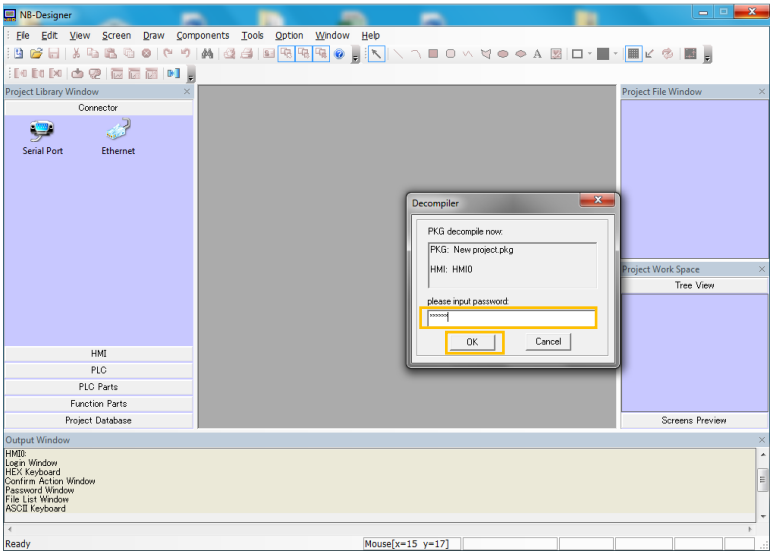
10. When the NB-Designer starts, select Import Project from File menu.



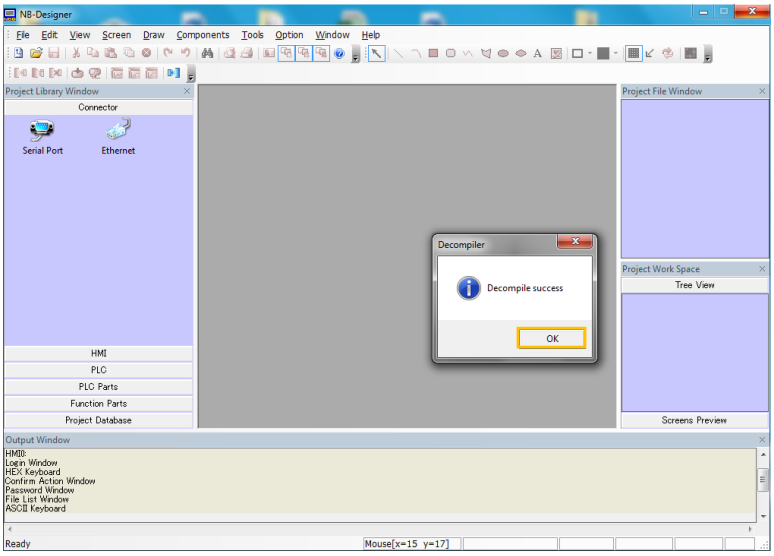
11. Open the destination media and select the project file you upload from NB and touch the Open Button.



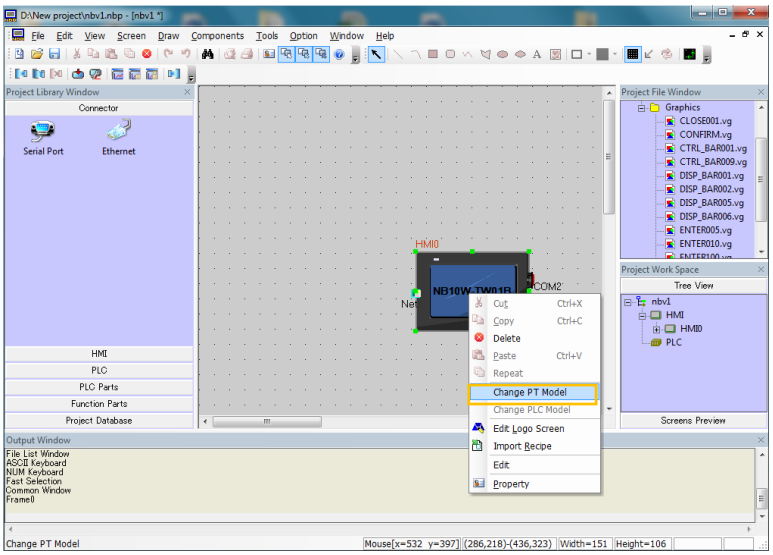
12. Input password, press OK.



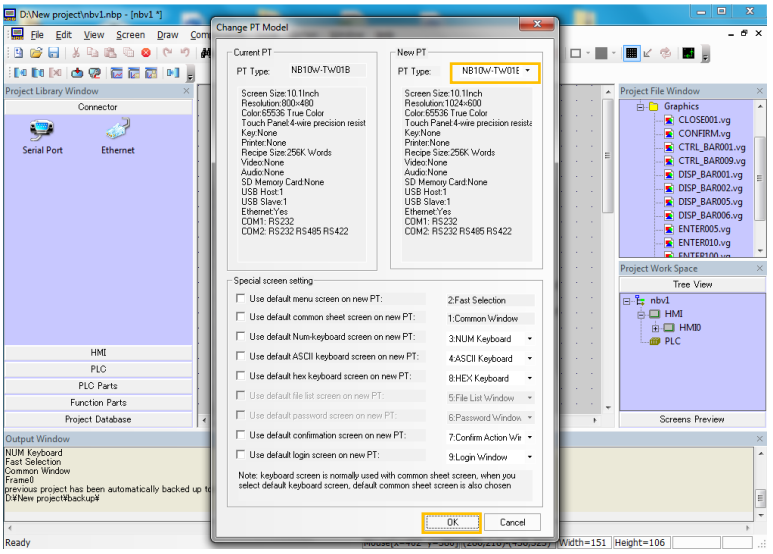
13. The warning message is displayed.
Select the OK Button.



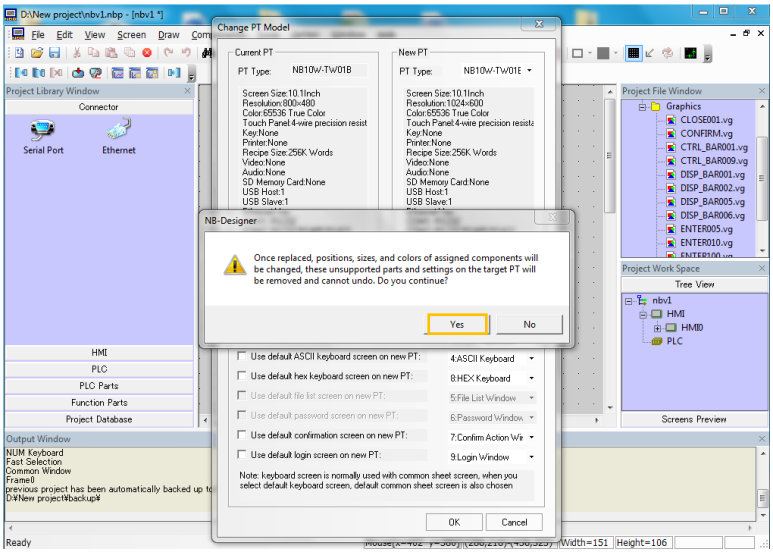
14. Right-Select the HMI Icon and select Change PT model from the menu.



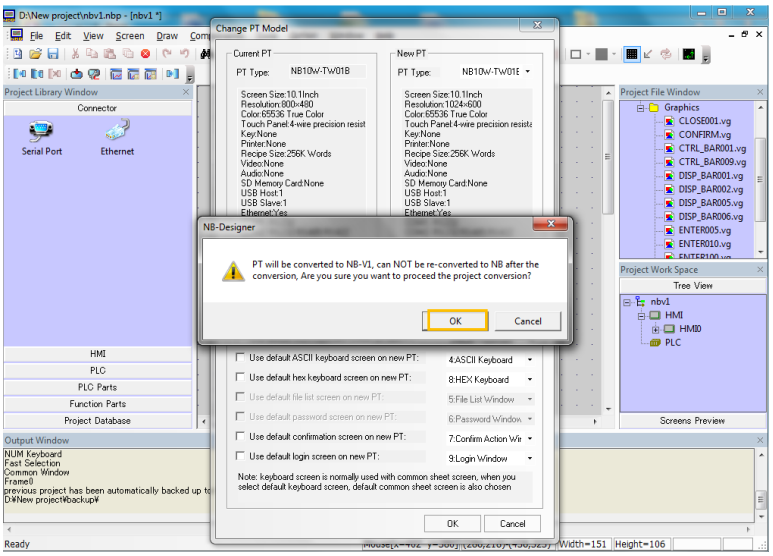
15. Select NB-V1 device model, and then Select the OK Button.



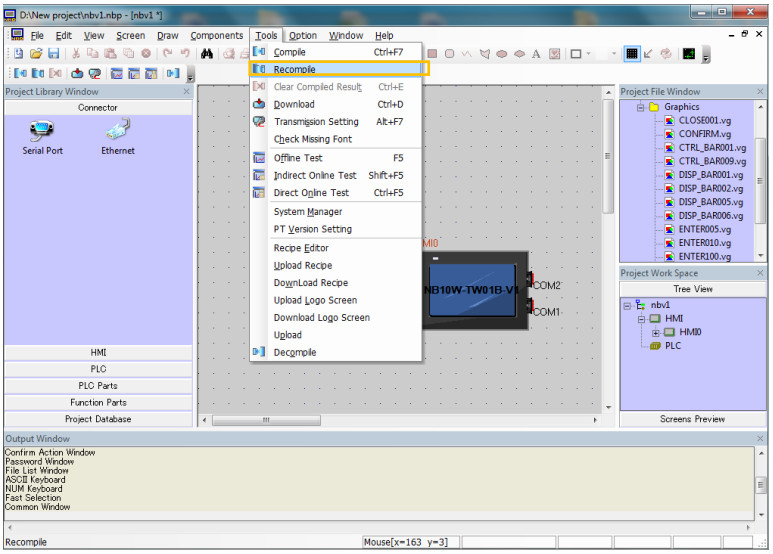
16. The warning message is displayed.
Select the Yes Button.
*This message is displayed when the device is changed.



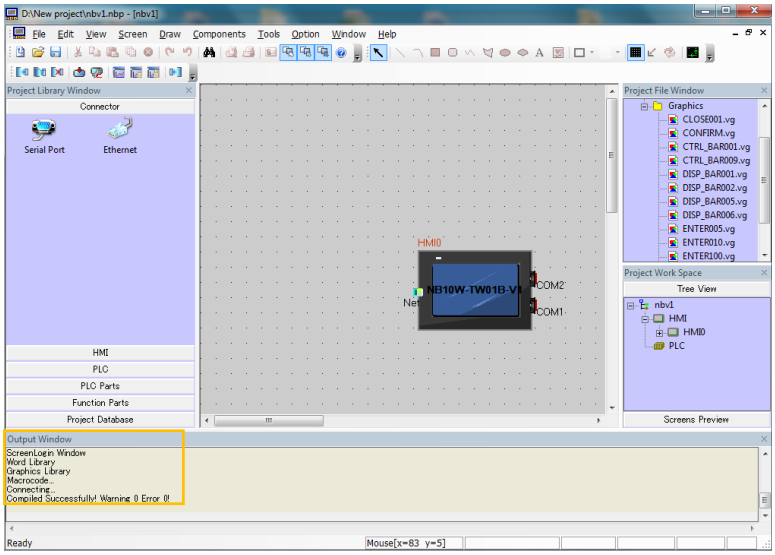
17. The warning message is displayed.
    Select the OK Button.
    *This message is displayed when the device version is updated.



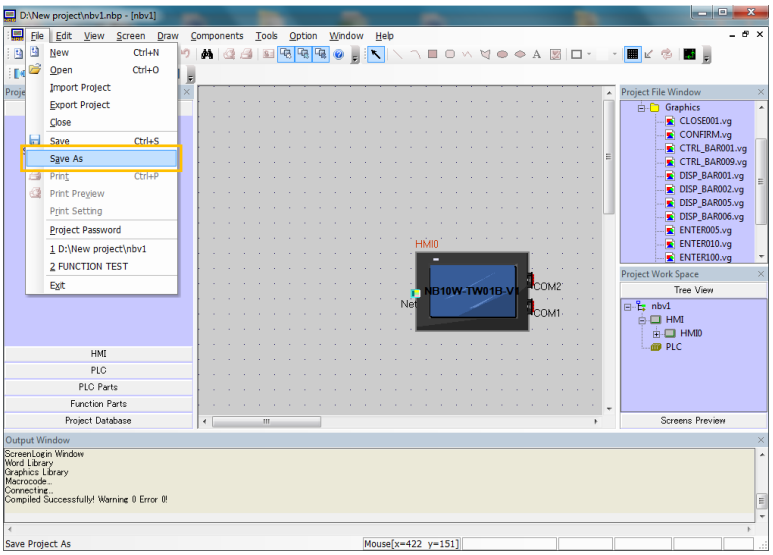
18. Select Recompile from Tools menu.



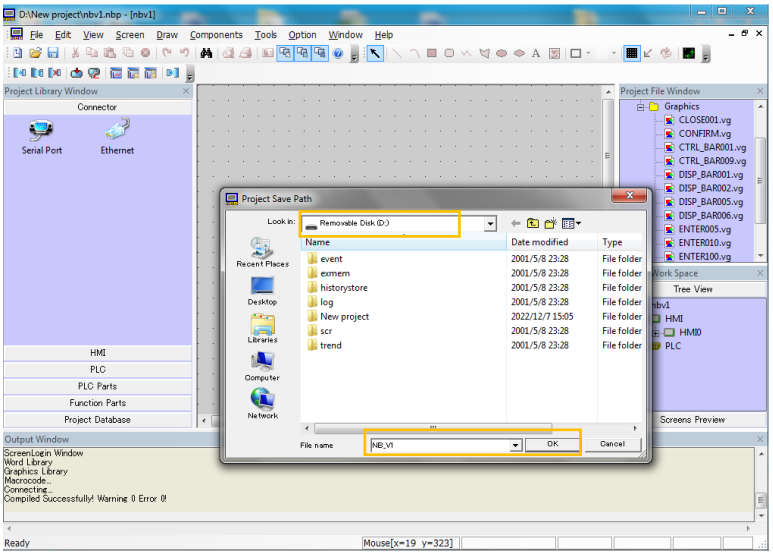
19. Compiled Successfully.



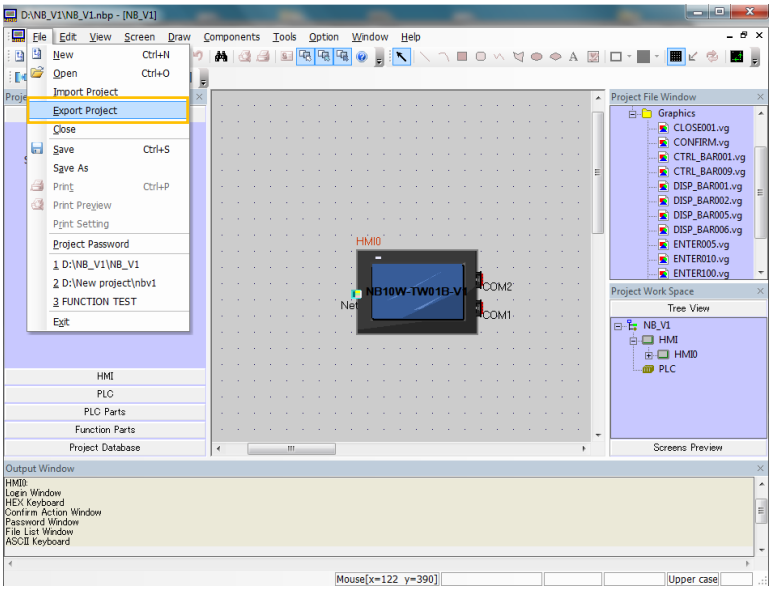
20. Select Save As from File menu.

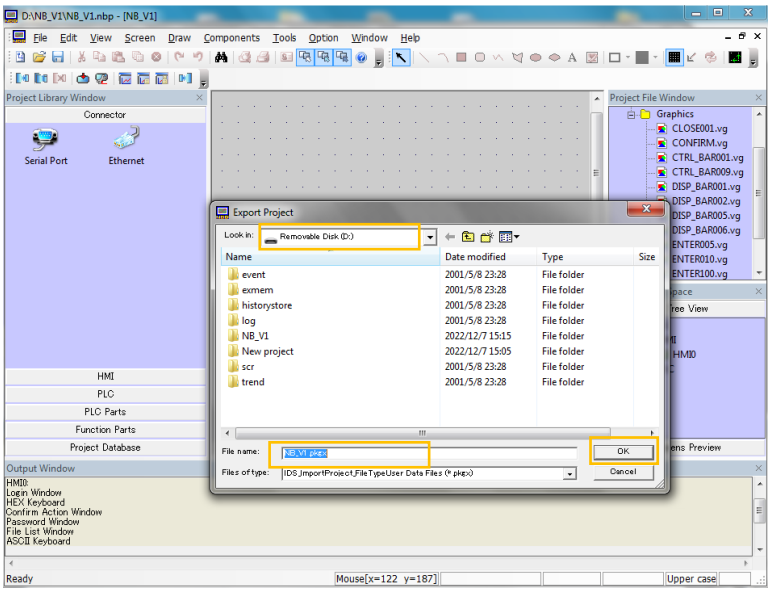
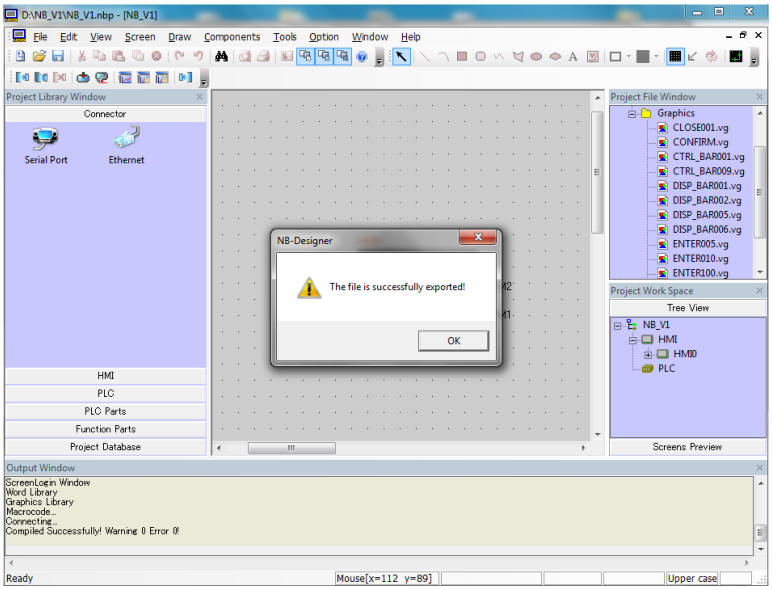


21. Specify the destination media and file name and touch the OK Button.



22. Select Export Project from the File Menu.

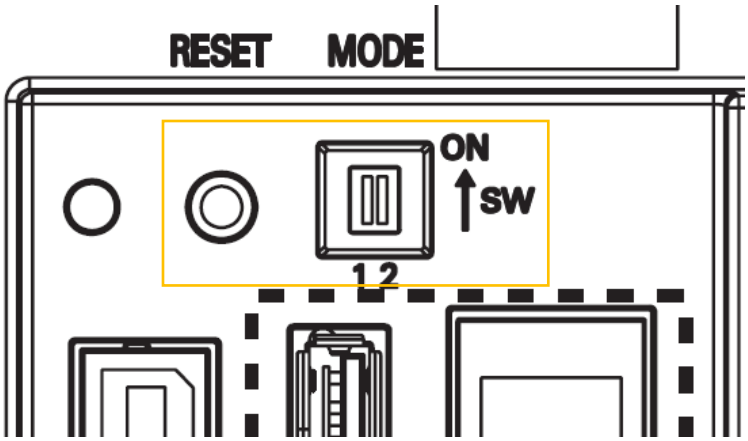


23. Specify the destination media and file name and touch the OK Button.	
24. The file is successfully exported. Touch the OK Button.	

A-1-2 Downloading by using a storage media

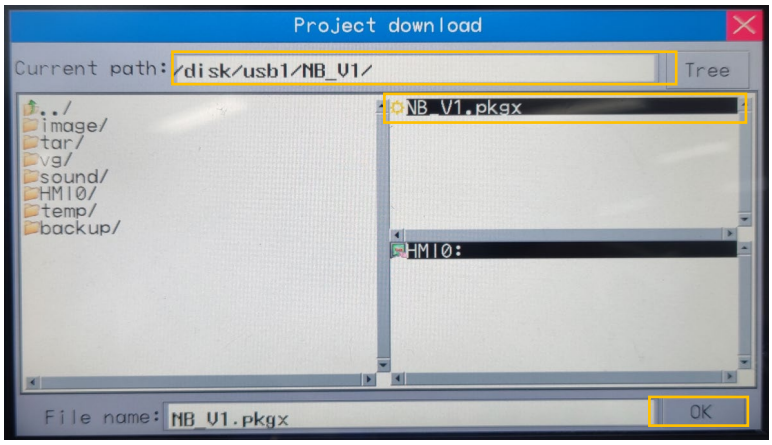
1. Insert the storage media into the HMI for the download into the HMI.	-

2. Enter the System Setting Mode following the procedures below.
   (1) Set both the DIP switches SW1 and SW2 on the back side to ON.
   (2) Press the Reset switch, restart the NB Unit, and then it enters into the System Setting Mode.



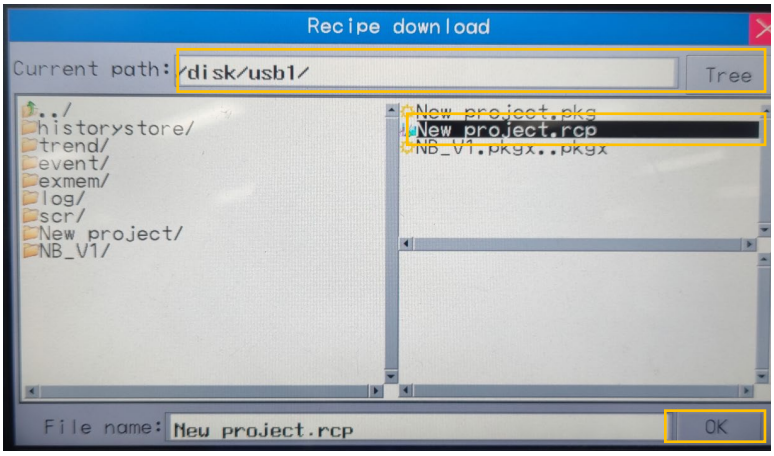
3. Touch the USB to HMI Button.

4. Select the ".pkgx" project to download and touch the OK Button. The selected project is downloaded to the HMI.



5. Touch the RCP to HMI Button.

6. Select the ".rcp" file to download and touch the OK Button. The selected file is downloaded to the HMI.



7. Enter the Normal Mode following the procedures below.
   (1) Set both the DIP switches SW1 and SW2 on the back side to OFF.
   (2) Press the Reset switch, restart the NB Unit, and then it enters into the Normal Mode.

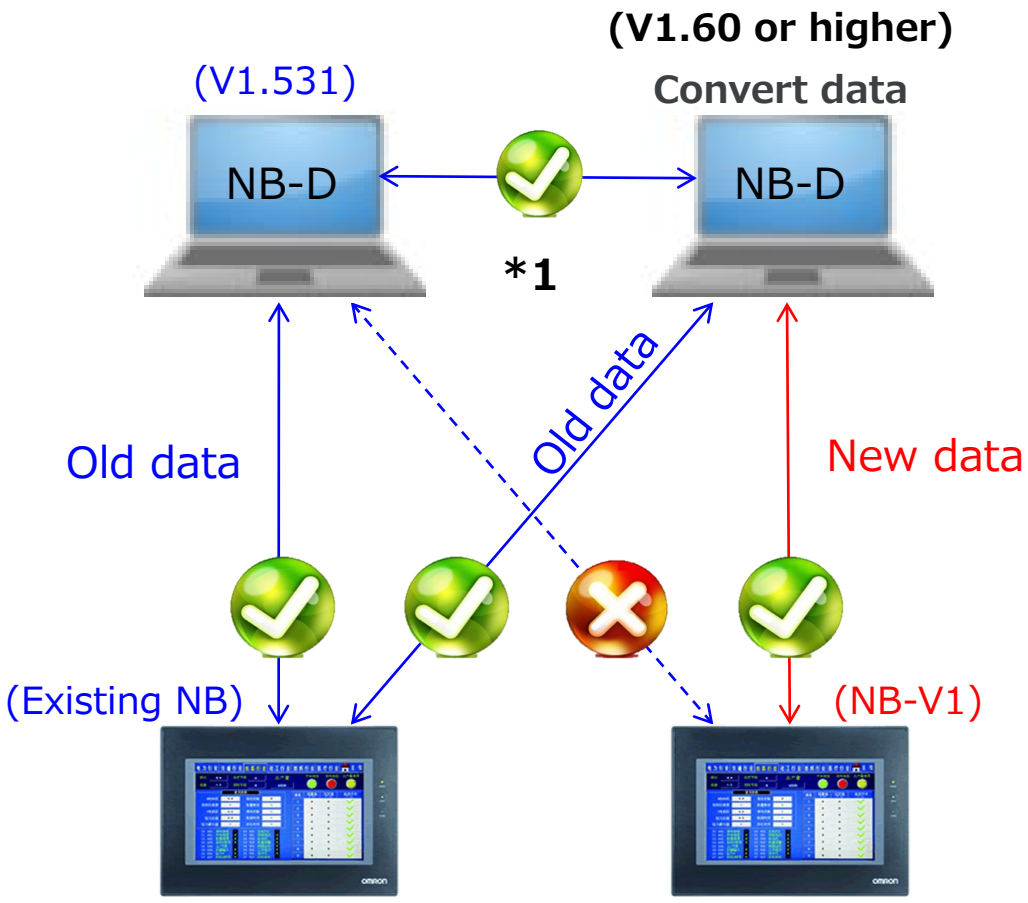
Appendix-2 Reusing project data

Users can convert existing project data to use it in a replaced new NB-V1 using the data conversion feature equipped in NB-Designer V1.60 or higher.
The following describes how to reuse project data.

Create a backup copy using version 1.53: When a project is opened with NB-Designer V1.60 or higher, the format is changed and will not be compatible anymore with older versions. Please, make a backup before opening it (save as function in NB-Designer 1.53).

A-2-1 Project data usage restrictions

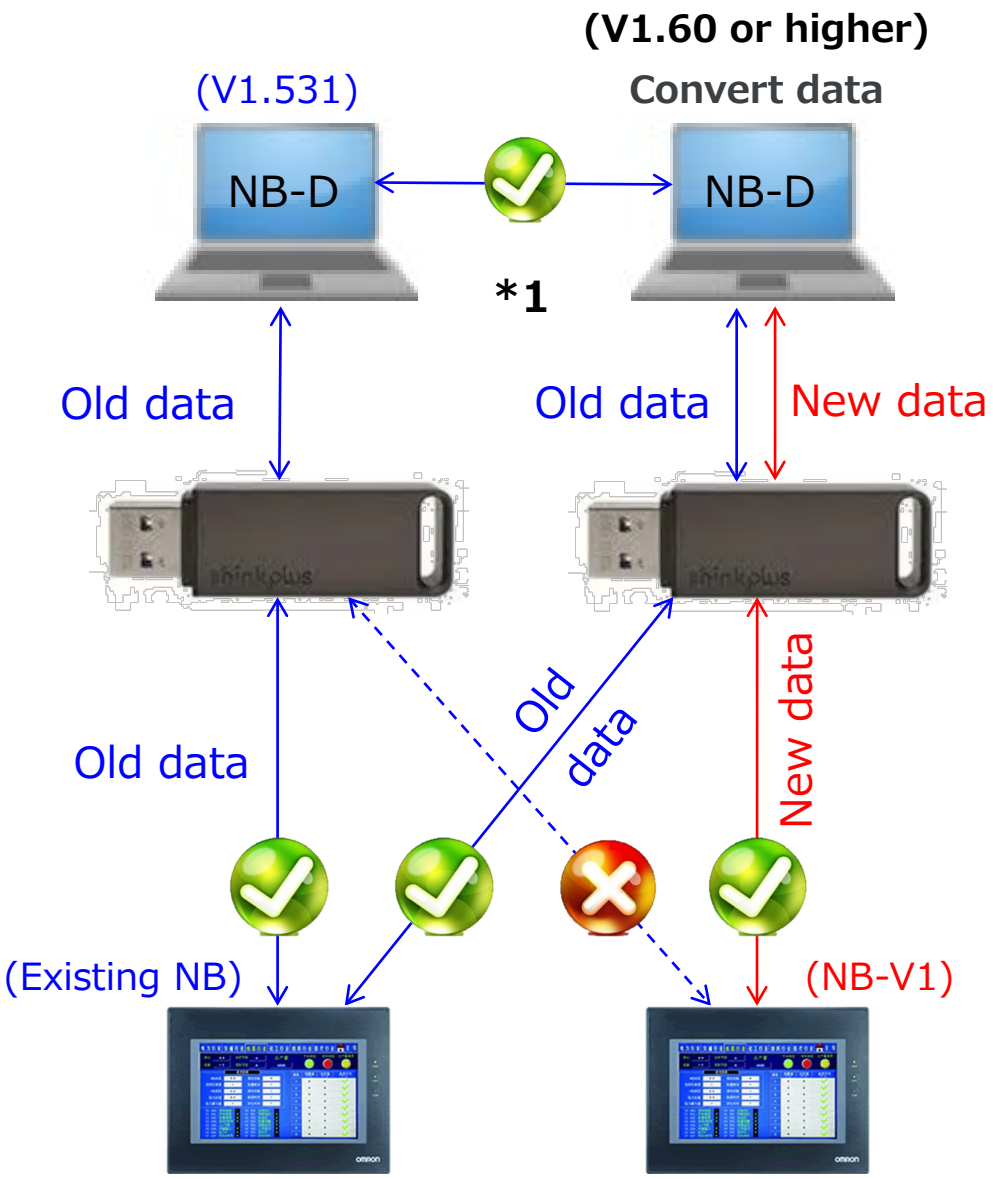
NB-Designer V1.60 or higher is equipped with the project data conversion feature. This project conversion feature enables you to reuse existing project data used in the old model NB.



*1. If project data created in NB-Designer V1.531 or lower is uploaded in NB-Designer V1.60 or higher and an old-to-new project data conversion is performed, the file cannot be opened in NB-Designer V1.531 or lower.

If you download project data from a USB stick memory, new project data will be downloaded to NB-V1 only, and original project data to the existing NB only.

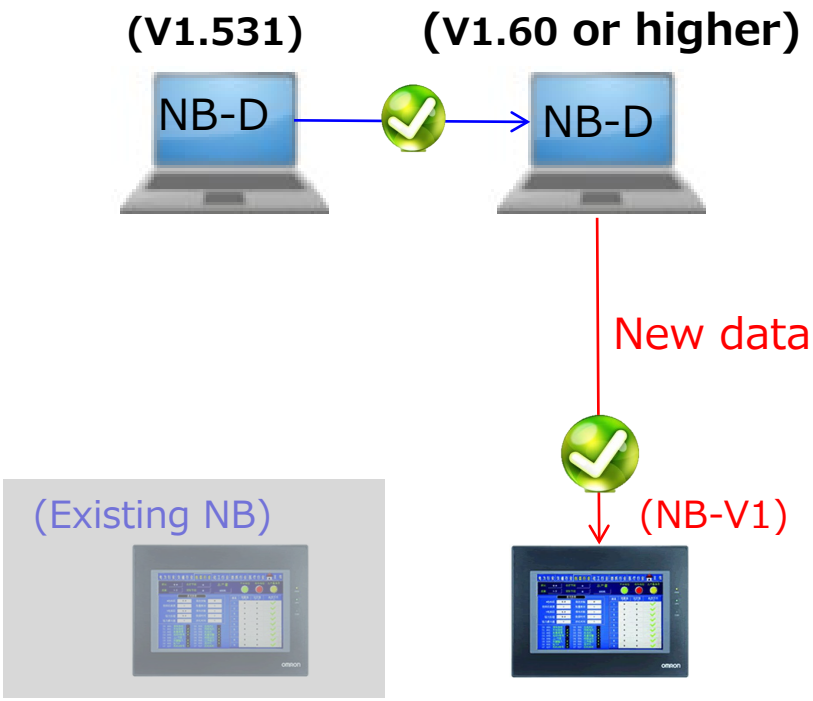
There is a difference in file extension between the existing NB and NB-V1. Existing NB: ".pkg", NB-V1: ".pkgx"



*1. If project data created in NB-Designer V1.531 or lower is uploaded in NB-Designer V1.60 or higher and an old-to-new project data conversion is performed, the file cannot be opened in NB-Designer V1.531 or lower.

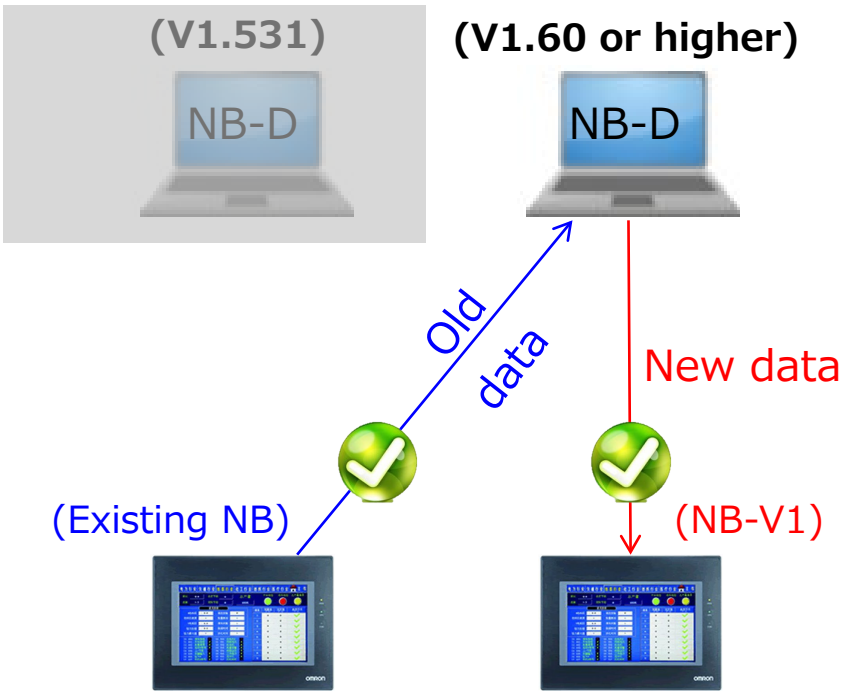
A-2-2 Use case 1

Update reusable project data to replace the existing NB with an NB-V1.
Users who have project data created with NB-Designer V1.531 or lower can convert those project data on NB-Designer V1.60 or higher.
Create a backup copy using version 1.531 if you need to open same project with an older version of NB-Designer.



A-2-3 Use case 2

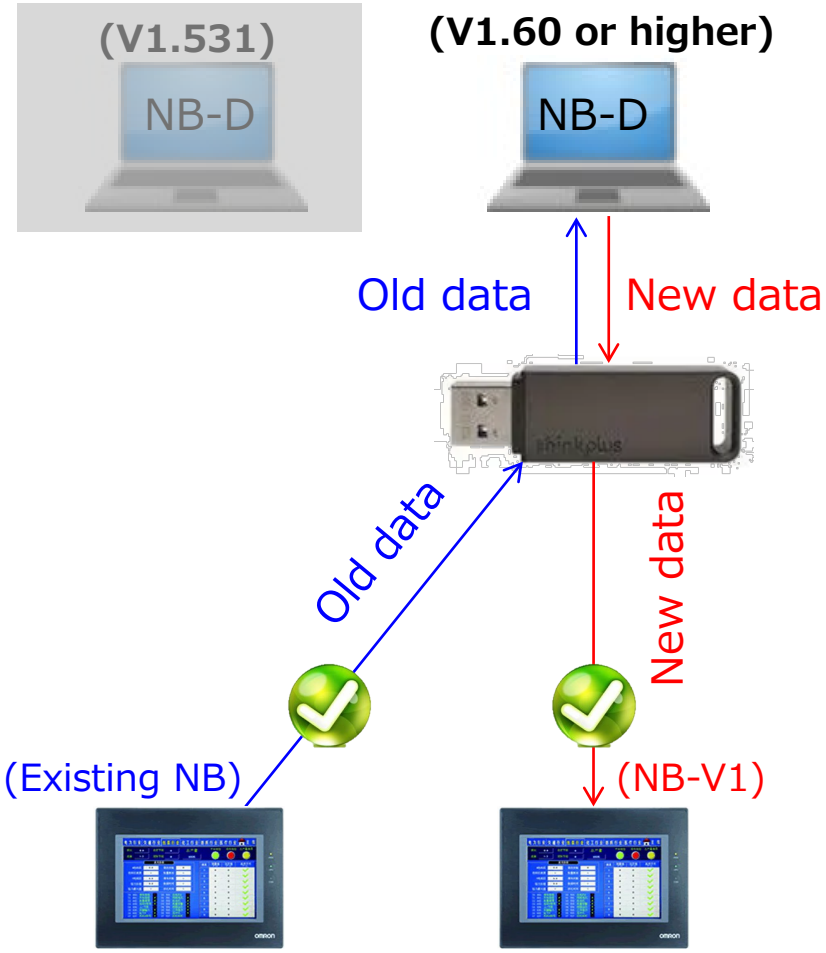
If you cannot reuse or have lost the existing project data for any reason, you can upload project data from the existing NB to convert and reuse in NB-V1.



A-2-4 Use case 3

When you replace your NB, you will use a USB stick memory to migrate data. However, the data used in the existing NB cannot be directly migrated to NB-V1 through the USB stick.
There is a difference in file extension between the existing NB and NB-V1. Existing NB: ".pkg", NB-V1: ".pkgx"

You need to back the existing project data used in the NB to a USB stick memory before replacing your HMI. Then, convert the data with NB-Designer V1.60 or higher to reuse.



Appendix-3 FAQs

Q1: Does NB-Designer V1.60 or higher support existing NB (-V0) series hardware and the NB-V1?
A1: Yes, NB-Designer V1.60 or higher supports both devices.

Q2: Is it possible to download a project file I created with NB-Designer V1.60 or higher to the existing NB and use it?
A2: Yes. Select the existing NB model in NB-Designer V1.60 or higher to create a project data.

Q3: Is NB-Designer V1.60 or higher mandatory for converting project data?
A3: Yes, NB-Designer V1.60 or higher is mandatory.

Q4: Are components included in project data resized automatically to the resolution of a new NB-V1 display?
A4: Yes, but you need NB-Designer V1.60 or higher to convert your project data.

Q5: Can I use project data created with NB-Designer V1.531 or lower in the NB-V1?
A5: No, you cannot use the lower version data directly. Convert the project data with NB-Designer V1.60 or higher to reuse in NB-V1.

Q6: I saved the project data created for the existing NB with NB-Designer 1.60 or higher, and then I cannot open the saved project data in NB-Designer V1.531 or lower. How can I keep the lower version of the project data?
A6: Back up your project data with NB-Designer V1.531 using Save As before editing the project data with NB-Designer V1.60 or higher.

Q7: I downloaded a project data made with NB-Designer V1.60 or higher to existing NB series. May I upload the project with NB-Designer V1.531 or lower uploading the project data directly from the HMI?
A7: This is not possible. Once the project data has been converted with NB-Designer V1.60 or higher it is not possible to use lower version of the Software to open the project. Only option is to have a backup version of the software made with a lower version of the NB-Designer. Uploaded by HMI or using “Save as” function before conversion.

Q8: I’m a machine builder supporting our customer adding an additional feature in an existing NB series. I’m using NB-Designer V1.60 or higher, my customer is using NB-Designer V1.531 or lower. When I made the modification in an existing NB series, could my customer opening the project again with his NB-Designer V1.531 or lower?
A8: Unfortunately, this is not possible, also end customer must use latest version of the NB-Designer. End customer could upload the project data modified with NB-Designer V1.60 or higher, from existing NB series, with old version NB-Designer V1.531. They could decompile the project data, but ones decompiled, NB-Designer V1.531 can’t open it and shows the error message: “New version project cannot be opened with old version software! Please update the software”.
End customer could free download latest version of the software from Omron website.

Q9: If the project made with NB-Designer V1.531 or lower is uploaded by NB-Designer V1.60 or higher, may I still work with NB-designer V1.531 or lower?
A9: If the project data made with NB-Designer V1.531 or lower is not opened with NB-Designer V1.60 or higher or newer (conversion is not performed), then the format is not changed and it is still compatible with older versions. Import and decompile operations with NB-Designer V1.60 or higher or newer, don’t change the project format.
1. I could upload project data from existing NB series with NB-Designer V1.60 or higher without converting it, and download with NB-Designer V1.531 or lower to another existing NB series.

2. I could Decompile with NB-Designer V1.60 higher the uploaded project data from existing NB series with NB-Designer V1.60 or higher, then open the decompiled project data with NB-Designer V1.531 or lower and download it to another existing NB series.

Revision History

Revision	Date	Revised Content
01	February 2023	Original production
02	April 2024	Added Appendix-2 and Appendix-3

Note: Do not use this document to operate the Unit.

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