

Programmable Terminal NB-series

# Practices Guide New Functionalities for NB-Designer V1.50

NB3Q-TW01B NB5Q-TW01B NB7W-TW01B NB10W-TW01B

Practices
Guide



#### Introduction

This guide describes reference information to create NB screens. It does not provide safety information.

Be sure to obtain the manuals for NB-series Programmable Terminals, read and understand the safety points and other information required for use, and test sufficiently before actual use of the equipment.

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  - (d) Applications under conditions or environment which are not described in the catalogs
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  - (b) Free replacement of the malfunctioning Omron products with the same number of substitutes.
- Exceptions: This warranty does not cover malfunctions caused by any of the followings.
  - (a) Usage in the manner other than its original purpose
  - (b) Usage out of the conditions
  - (c) Usage out of Note about Use in these conditions
  - (d) Remodeling/repairing by anyone except Omron
  - (e) Software program by anyone except Omron
  - (f) Causes which could not be foreseen by the level of science and technology at the time of shipment of the products.
  - (g) Causes outside Omron or Omron products, including force majeure such as disasters

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# 1 Related Manuals

No.	Model	Title
V106	NB□Q-TW01B	NB-series Programmable Terminals NB-Designer
	NB□W-TW01B	OPERATION MANUAL
V107	NB□Q-TW01B NB□W-TW01B	NB-series Programmable Terminals SETUP MANUAL
V108	NB□Q-TW01B	NB-series Programmable Terminals HOST
	NB□W-TW01B	CONNECTION MANUAL
V109	NB□Q-TW01B	NB-series Programmable Terminals STARTUP GUIDE
	NB□W-TW01B	

# 2 Precautions

- (1) When building an actual system, check the specifications of the component devices of the system, use within the ratings and specified performance, and implement safety measures such as safety circuits to minimize the possibility of an accident.
- (2) For safe use of the system, obtain the manuals of the component devices of the system and check the information in each manual, including safety precautions, precautions for safe use.
- (3) It is customer's responsibility to check all laws, regulations, and standards that the system must comply with.
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- (5) The information in this document is current as of March 2020. The information contained in this document is subject to change without notice due to improvements.

Special information in this document is classified as follows:



#### Precautions for Safe Use

Describes precautions on what to do and what not to do to ensure proper operation and performance.



# Precautions for Correct Use

Describes precautions on what to do and what not to do to ensure proper operation and performance.



# Additional Information

Additional information to read as required.

This information is provided to increase understanding or make operation easier.

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- Screen shots are used with permission from Microsoft Corporation.
- Some product photos and drawings in this guide are for illustrative purposes. Actual products may vary.

# 3 New Functionalities for NB-Designer V1.50

# 3-1 Overview

This guide provides information about the following features newly added in NB-Designer V1.50:

- 1. Connection destination setting change
- 2. Project import and export from/to NB-Designer
- 3. Font replacement

# 4 How to Use New Functionalities

# 4-1 Connection Destination Setting Change

Configuration to communicate with an Omron Ethernet host is possible in a specific system memory. A screen for entering values into the system memory enables to change the setting without using NB-Designer.

You only can change the communication setting in the NB unit, not the setting of the connection destination unit itself.

# 4-1-1 Related System Memory

Address	Description	
LW9685	Enter the number of PLC to connect. The number must start with 3 and	
	ascending number, not a PLC number as it is.	
	For example, If 3 is assigned to this address, the Ethernet host that has	
	the lowest PLC number is selected. If 4 is assigned, the host whose PLC	
	number is the second lowest is selected.	
	After the PLC number is set to this address, the information about the	
	target host, such as current IP address, is automatically set to LW9686	
	and higher address.	
LW 9686 to	Enter the IP address of connection destination.	
9689	LW9686 is the most significant byte of the IP address. Ascending	
	addresses represents the lower bytes in sequence.	
	For example, IP address 192.168.250.0 is set as: 192 is LW9686, 168	
	is LW9687, 250 is LW9688, and 1 is LW9689.	
LW9690	Enter the port number of connection destination.	
LW9691	Set the node ID of connection destination. Enter the least significant byte	
	of the IP address, i.e. the same value as LW9689.	
LB9272	Change set values in the addresses above. To enable the settings,	
	change this address to ON and then, reboot the NB unit.	

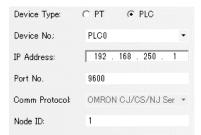


## 4-1-2 Creating Sample Screen and Setting Objects

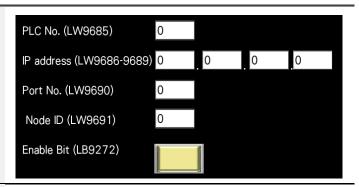
This section provides an example to change communication settings of a project whose settings are as shown below.

Refer to "NB-series Programmable Terminals NB-Designer OPERATION MANUAL" (V106) for details about screen creation.

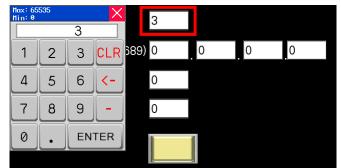




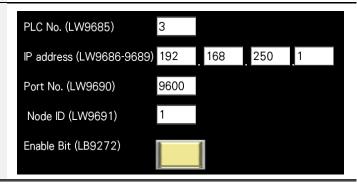
 Create a screen to rewrite the system memory with numerical entry objects and bit switches.

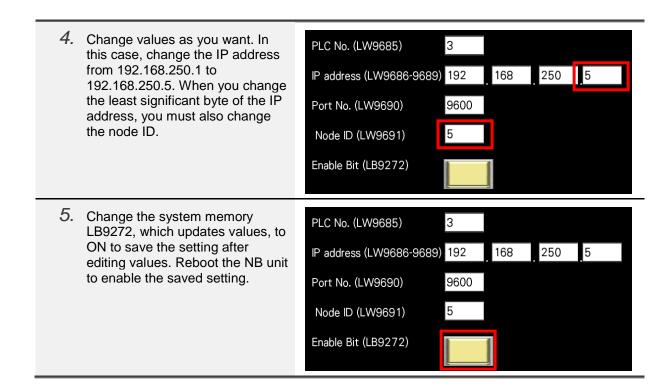


 Enter 3 for LW9685 to change the host whose PLC number is 0.
 As previously described, 3 is to be entered for the Ethernet host whose number is the lowest. PLC numbers 0 to 2 are reserved for serial communication hosts and not allowed to use.



3. After entering 3 for the PLC No.0 then confirming it, the IP address, port number, and node ID set to the host are displayed.

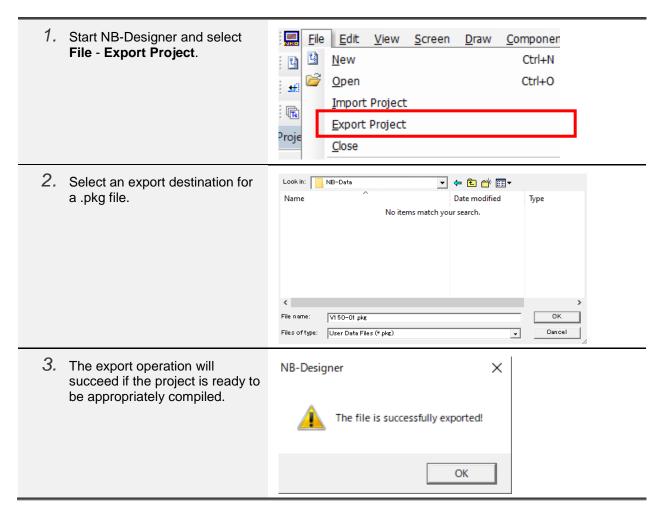




## 4-2 Project Import and Export from NB-Designer Menu

When you upload a project from the NB unit, a .pkg file is generated. It was necessary to decompile the .pkg file in NB-Manager to open the project. In versions of 1.50 or higher, the NB-Designer menu allow you to export or import a project to/from a .pkg file.

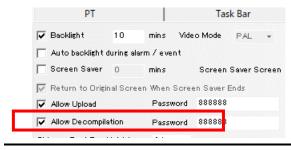
# 4-2-1 Example (Export)



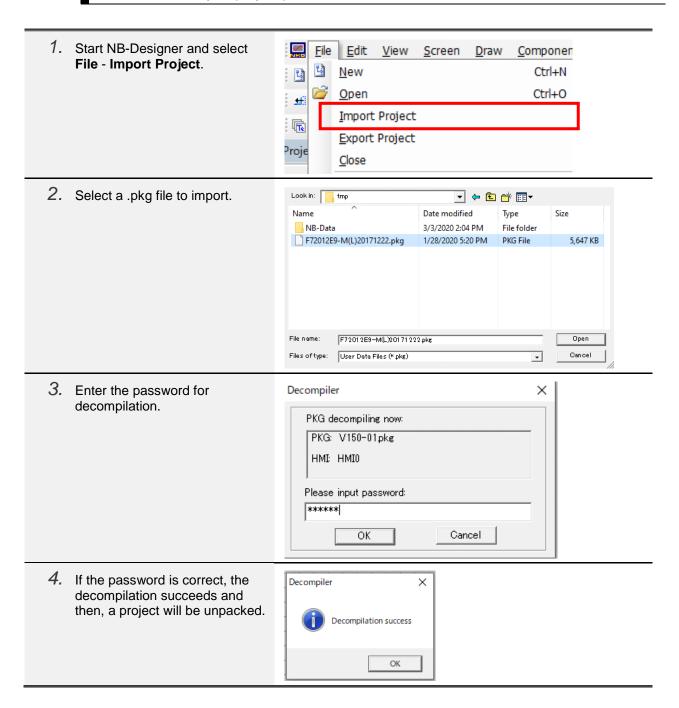


## **Additional Information**

To perform a decompilation, click **PT Property** and open the **PT Extended Property** tab. Then check the **Allow Decompilation** box to enter a password.



# 4-2-2 Example (Import)



# 4-3 Font Replacement

When a project written with Windows fonts was opened on another PC, fonts not installed on the PC (missing fonts) were automatically replaced with default fonts.

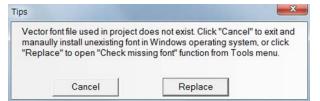
In V1.50 or higher, you can replace missing fonts with any fonts.



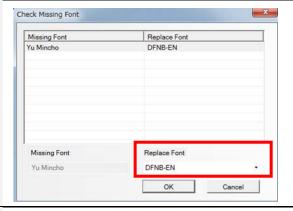
## 4-3-1 Sample Setting

The font replacement procedure is shown below.

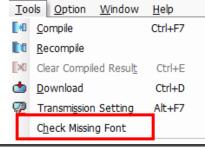
 When you open a project including a missing font, the dialog that requires confirmation for replacing the font appears.



 If you press Replace button in the dialog, the dialog that allow you to select a replacement candidate font is displayed.
 Select any font.
 If you do not replace the font, press the Cancel button. The font is replaced with the default



 You can display the dialog in Step 1 again after you have selected Cancel. Click Tools -Check Missing Font. After compilation, the font is replaced with the default font.





font.

### **Additional Information**

It is possible to prevent from replacement with the default font by installing the missing font in Windows.



#### Additional Information

If you do not replace the missing font, the missing font is replaced with the font that is on the top of the font list in the pull-down menu before compilation. After compilation, the font is replaced with the default font.

# **Revision History**

Revision Code	Date	Revision Description and Page
01	March 2020	First edition