Introduction

Thank you for purchasing a Soft-NA.
This manual contains information that is necessary to use the Soft-NA. Please read this manual and make sure you thoroughly understand the functionalities and performance of the NA-series Programmable Terminal before you attempt to use it for constructing the system.

Keep this manual in a safe place where it will be available for reference during operation.
This manual mainly describes the portions that are different from the NA5-□□□□□□□□□□.

Intended Audience

This manual is intended for the following personnel, who must also have knowledge of electrical systems (an electrical engineer or the equivalent).

- Personnel in charge of introducing FA systems.
- Personnel in charge of designing FA systems.
- Personnel in charge of installing and maintaining FA systems.
- Personnel in charge of managing FA systems and facilities.

Applicable Products

This manual is applicable to the following products.

- Soft-NA
The basic information required to use an NA-series PT is provided in the following four manuals.

- *NA-series Programmable Terminal Hardware(-V1) User’s Manual* (Cat. No. V125)

Operations are performed from the Sysmac Studio Automation Software.

Refer to the *Sysmac Studio Version 1 Operation Manual* (Cat. No. W504) for information on the Sysmac Studio.

Other manuals may be referenced for specific system configurations and applications.
3-3 Installing NA-series PTs

3-3-1 Installation in a Control Panel

Installation in a Control Panel

The NA-series PT is installed by embedding it in a control panel. Panel Mounting Brackets and a Phillips screwdriver are required to mount the NA-series PT. The required number of Panel Mounting Brackets are included with the NA-series PT.

Use the following installation procedure.

1. Open a hole in which to embed the NA-series PT with the following dimensions and insert the NA-series PT from the front side of the panel.

   Recommended panel thickness: 1.6 to 6.0 mm

2. Attach the panel mounting brackets from the back of the panel as shown in the following figure. The number of mounting brackets depends on the size of the NA-series PT, as shown in the following table. Refer to Bracket Mounting Locations for Different NA-series PT Sizes on page 3-8, below.

   **Table:**
<table>
<thead>
<tr>
<th>Model</th>
<th>Number of Panel Mounting Brackets</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA5-15W</td>
<td>8 locations</td>
</tr>
<tr>
<td>NA5-12W</td>
<td>6 locations</td>
</tr>
<tr>
<td>NA5-9W</td>
<td>4 locations</td>
</tr>
<tr>
<td>NA5-7W</td>
<td>4 locations</td>
</tr>
</tbody>
</table>

   Additional Information:

   You can use an NS-USBEXT-1M USB Relay Cable to extend the USB slave connector on the back panel of the NA-series PT to the front surface of a control panel. If you use the USB Relay Cable, open a hole with the following dimensions and install the Cable.

   2. Attach the panel mounting brackets from the back of the panel as shown in the following figure. The number of mounting brackets depends on the size of the NA-series PT, as shown in the following table. Refer to Bracket Mounting Locations for Different NA-series PT Sizes on page 3-8, below.

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<tr>
<td>NA5-9W</td>
<td>4 locations</td>
</tr>
<tr>
<td>NA5-7W</td>
<td>4 locations</td>
</tr>
</tbody>
</table>

   Catch the brackets in the mounting holes in the NA-series PT, pull forward lightly, and then use a Phillips screwdriver to tighten the screws and secure the NA-series PT to the panel, which will be held between the mounting brackets and the NA-series PT.
Icons

The icons used in this manual have the following meanings.

🔍 **Precautions for Safe Use**
Precautions on what to do and what not to do to ensure safe usage of the product.

 🔨 **Precautions for Correct Use**
Indicates 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.

✅ **Version Information**
Information on differences in specifications and functionality with different versions is given.
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Terms and Conditions Agreement

Warranty, Limitations of Liability

Warranties

- **Exclusive Warranty**
  Omron’s exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied.

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  Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted.
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Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer’s application or use of the Product. At Buyer’s request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer’s application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

Programmable Products

Omron Companies shall not be responsible for the user’s programming of a programmable Product, or any consequence thereof.

Disclaimers

Performance Data

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Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

Errors and Omissions

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.
Safety Precautions

Definition of Precautionary Information

The following notation is used in this manual to provide precautions required to ensure safe usage of the Soft-NA. The safety precautions that are provided are extremely important to safety. Always read and heed the information provided in all safety precautions.

The following notations are used.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="warning.png" alt="WARNING" /></td>
<td>Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or at the worst, serious injury or death. Additionally, there may be severe property damage.</td>
</tr>
<tr>
<td><img src="caution.png" alt="Caution" /></td>
<td>Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury, or property damage.</td>
</tr>
</tbody>
</table>

**Precautions for Safe Use**
Indicates precautions on what to do and what not to do to ensure safe usage of the product.

**Precautions for Correct Use**
Indicates precautions on what to do and what not to do to ensure proper operation and performance.

Symbols

- The circle and slash symbol indicates operations that you must not do.
- The specific operation is shown in the circle and explained in text.
- This example indicates prohibiting disassembly.

- The triangle symbol indicates precautions (including warnings).
- The specific operation is shown in the triangle and explained in text.
- This example indicates a general precaution.
WARNING

Always ensure that the person in charge confirms that installation, inspection, and maintenance were properly performed for the Soft-NA.

"Person in charge" refers to individuals qualified and responsible for ensuring safety during machine design, installation, operation, maintenance, and disposal.

 Ensure that installation and post-installation checks of the Soft-NA are performed by persons in charge who possess a thorough understanding of the machinery to be installed.

Do not use input functions such as the touch panel or function keys of the Soft-NA in applications that involve human life or that may result in serious injury, or for emergency stop switches.

When you use the touch panel as the input device of the Soft-NA, do not press two points or more on the touch panel at the same time. Touching two points or more interrupts normal touch panel operations.
Precautions for Safe Use

Precaution

- When connecting to devices, or setting up the PC on which the Soft-NA is to be installed, thoroughly read the related manuals as well.
- Follow the general usage method of Windows.
- Do not install unnecessary applications on the PC on which the Soft-NA is to be installed.
- End all other applications that are not directly related to the use of the Soft-NA.
- If the hard disk or printer connected to the PC is being shared with another PC over the network, cancel the sharing.
- The whole system may stop depending on how the Soft-NA is started or exited. Start and exit the Soft-NA according to the specified procedure.
- To ensure the system's safety, before running the system, make sure to incorporate a program that periodically calls the operating signal at the host side and can confirm that the Soft-NA is operating normally.
- Do not perform any undesired operations on the input device when the backlight is not lit or when the display does not appear.
- When shutting down or restarting your PC, or switching the Windows user, be sure to first confirm the safety of the system.
- Initialize the project after confirming that the project being used is backed up at the Sysmac Studio side.
- Exit the Soft-NA according to the specified procedure.
- While uploading or downloading a project or a system program, do not perform the following operations. Such operations may corrupt the project or the system program.
  - Forcibly exiting the Soft-NA
  - Removing the USB Memory or SD memory card
  - Disconnecting the communication path between the support software and Soft-NA
  - Start actual system application only after confirming normal operation of the system including storage medium such as USB memory and SD memory card.
  - Do not perform the following operations when accessing USB devices or SD memory card.
    - Exiting the Soft-NA
    - Pulling out the USB devices or SD memory card
    - Start actual system application only after sufficiently checking project, subroutine and the operation of the program at the connected device side.
  - If you use multithread execution of subroutines, start the actual system application only after sufficiently checking the operation of the program for multithread execution.
  - To safely use the numeric input function, be sure to use the function for upper and lower limit settings.
  - Operate the objects on Soft-NA after confirming the safety of the system.
  - If the objects on the Soft-NA are pressed consecutively at a high speed, the signals may not be entered. Make sure to go on the next input operation after confirming one input.
  - Do not attempt to disassemble, repair, or modify the product.
  - The local authorities may lay down rules and regulations for the dispose of the product. Dispose of the product according to local ordinances as they apply.
  - Continuous 24-hour operation of the product is not guaranteed. Do not use this product in a system for which high availability is required.
Precautions for Correct Use

- Do not install or store the Soft-NA in any of the following locations:
  - Locations subject to severe changes in temperature
  - Locations subject to temperatures or humidity outside the range specified in the specifications
  - Locations subject to condensation as a result of high humidity
  - Locations subject to corrosive or flammable gases
  - Locations subject to strong shock or vibration
  - Locations that are outdoors and subject to direct wind and rain
  - Locations subject to strong ultraviolet light
  - Locations subject to dust
  - Locations subject to direct sunlight
  - Locations subject to splashing oil or chemicals

- Take appropriate and sufficient countermeasures when installing systems in the following locations:
  - Locations subject to static electricity or other forms of noise
  - Locations subject to strong electric field or magnetic field
  - Locations close to power supply lines
  - Locations subject to possible exposure to radioactivity
Regulations and Standards

**Overseas Usage**

As for the Soft-NA, when exporting (or supplying to non-residents) goods (or technologies) requiring an export license specified according to the Foreign Exchange and Foreign Trade Control Act, or an approval, it is necessary to obtain an export license based on the act, or an approval (or permission for service transactions).
## Related Manuals

The following manuals are related to the Soft-NA. Use these manuals for reference.

<table>
<thead>
<tr>
<th>Manual name</th>
<th>Cat. No.</th>
<th>Model</th>
<th>Application</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA-series Programmable Terminal Hardware(-V1) User’s Manual</td>
<td>V125</td>
<td>NA5-W□□□□□□□□□-V1</td>
<td>Learning the specifications and settings required to install an NA-series PT and connect peripheral devices.</td>
<td>Information is provided on NA-series PT specifications, part names, installation procedures, and procedures to connect an NA Unit to peripheral devices. Information is also provided on maintenance after operation and troubleshooting.</td>
</tr>
<tr>
<td>NA-series Programmable Terminal Software User’s Manual</td>
<td>V118</td>
<td>NA5-W□□□□□□□□□ (-V1)</td>
<td>Learning about NA-series PT pages and object functions.</td>
<td>NA-series PT pages and object functions are described.</td>
</tr>
<tr>
<td>NA-series Programmable Terminal Device Connection User’s Manual</td>
<td>V119</td>
<td>NA5-W□□□□□□□□□ (-V1)</td>
<td>Learning the specifications required to connect devices to an NA-series PT.</td>
<td>Information is provided on connection procedures and setting procedures to connect an NA-series PT to a Controller or other device.</td>
</tr>
<tr>
<td>NA-series Programmable Terminal Startup Guide</td>
<td>V120</td>
<td>NA5-W□□□□□□□□□</td>
<td>Learning in concrete terms information required to install and start the operation of an NA-series PT.</td>
<td>The part names and installation procedures are described followed by page creation and transfer procedures with the Sysmac Studio. Also operation, maintenance, and inspection procedures after the project is transferred are described. Sample screen captures are provided as examples.</td>
</tr>
</tbody>
</table>
| NX-series CPU Unit Hardware User’s Manual                                   | W535     | NX701-□□□□□□□□□     | Learning the basic specifications of the NX-series CPU Units, including introductory information, design, installation, and maintenance. Mainly hardware information is provided. | An introduction to the entire NX-series system is provided along with the following information on the CPU Unit.  
  - Features and system configuration  
  - Introduction  
  - Part names and functions  
  - General specifications  
  - Installation and wiring  
  - Maintenance and inspection  
  Use this manual together with the NJ/NX-series CPU Unit Software User’s Manual (Cat. No.W501).                                                                                                           |
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>NJ-series CPU Unit Hardware User’s Manual</td>
<td>W500</td>
<td>NJ501-□□□□ □□□□□□□ □□□□□□ □□□□□□</td>
<td>Learning the basic specifications of the NJ-series CPU Units, including introductory information, designing, installation, and maintenance. Mainly hardware information is provided.</td>
<td>An introduction to the entire NJ-series system is provided along with the following information on a Controller built with a CPU Unit. • Features and system configuration • Introduction • Part names and functions • General specifications • Installation and wiring • Inspection and maintenance Use this manual together with the NJ-series CPU Unit Software User’s Manual (Cat. No. W501).</td>
</tr>
<tr>
<td>NJ/NX-series CPU Unit Software User’s Manual</td>
<td>W501</td>
<td>NX701-□□□□ □□□□□□□ □□□□□□ □□□□□□</td>
<td>Learning how to program and set up an NJ/NX-series CPU Unit. Mainly software information is provided.</td>
<td>Provides the following information on a Controller built with an NJ/NX-series CPU Unit. • CPU Unit operation • CPU Unit features • Initial settings • Programming based on IEC 61131-3 language specifications</td>
</tr>
<tr>
<td>NJ/NX-series Instructions Reference Manual</td>
<td>W502</td>
<td>NX701-□□□□ □□□□□□□ □□□□□□ □□□□□□</td>
<td>Learning detailed specifications on the basic instructions of an NJ/NX-series CPU Unit.</td>
<td>The instructions in the instruction set (IEC 61131-3 specifications) are described.</td>
</tr>
<tr>
<td>NJ/NX-series Troubleshooting Manual</td>
<td>W503</td>
<td>NX701-□□□□ □□□□□□□ □□□□□□ □□□□□□</td>
<td>Learning about the errors that may be detected in an NJ/NX-series Controller.</td>
<td>Concepts on managing errors that may be detected in an NJ/NX-series Controller and information on individual errors are described.</td>
</tr>
<tr>
<td>Sysmac Studio Version 1 Operation Manual</td>
<td>W504</td>
<td>SYSMAC-SE2□□□□ □□□□□□□ □□□□□□ □□□□□□</td>
<td>Learning about the operating procedures and functions of the Sysmac Studio.</td>
<td>The operating procedures of the Sysmac Studio are described.</td>
</tr>
<tr>
<td>NY-Series Industrial Box PC User’s Manual</td>
<td>W553</td>
<td>NYB□□□□□□□□□ □□□□□□ □□□□□□ □□□□□□</td>
<td>Learning the basic specifications of the NY-series Industrial Box PCs, including introductory information, designing, installation, and maintenance.</td>
<td>An introduction to the entire NY-series system is provided along with the following information on the Industrial Box PC. • Features and system configuration • Introduction • Part names and functions • General specifications • Installation and wiring • Maintenance and inspection</td>
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</tbody>
</table>
| NY-Series Industrial Panel PC User's Manual | W555 | NYP□□-□□□□□□□ WC100□□ | Learning the basic specifications of the NY-series Industrial Panel PCs, including introductory information, designing, installation, and maintenance. | An introduction to the entire NY-series system is provided along with the following information on the Industrial Panel PC.  
  - Features and system configuration  
  - Introduction  
  - Part names and functions  
  - General specifications  
  - Installation and wiring  
  - Maintenance and inspection |
| NY-Series IPC Machine Controller Industrial Box PC Hardware User's Manual | W556 | NY512-1□□□□ | Learning the basic specifications of the NY-series Industrial Box PCs, including introductory information, designing, installation, and maintenance.  
Mainly hardware information is provided. | An introduction to the entire NY-series system is provided along with the following information on the Industrial Box PC.  
  - Features and system configuration  
  - Introduction  
  - Part names and functions  
  - General specifications  
  - Installation and wiring  
  - Maintenance and inspection |
| NY-Series IPC Machine Controller Industrial Panel PC Hardware User's Manual | W557 | NY532-1□□□□ | Learning the basic specifications of the NY-series Industrial Panel PCs, including introductory information, designing, installation, and maintenance.  
Mainly hardware information is provided. | An introduction to the entire NY-series system is provided along with the following information on the Industrial Panel PC.  
  - Features and system configuration  
  - Introduction  
  - Part names and functions  
  - General specifications  
  - Installation and wiring  
  - Maintenance and inspection |
| NY-Series IPC Machine Controller Industrial Panel PC / Industrial Box PC Software User's Manual | W558 | NY532-1□□□□ NY512-1□□□□ | Learning how to program and set up the Controller functions of an NY-series Industrial PC. | The following information is provided on the NY-series Controller functions.  
  - Controller operation  
  - Controller features  
  - Controller settings  
  - Programming based on IEC 61131-3 language specifications |
<p>| NY-Series Instructions Reference Manual | W560 | NY532-1□□□□ NY512-1□□□□ | Learning detailed specifications on the basic instructions of an NY-series Industrial PC. | The instructions in the instruction set (IEC 61131-3 specifications) are described. |
| NY-Series Troubleshooting Manual | W564 | NY532-1□□□□ NY512-1□□□□ | Learning about the errors that may be detected in an NY-series Industrial PC. | Concepts on managing errors that may be detected in an NY-series Controller and information on individual errors are described. |</p>
<table>
<thead>
<tr>
<th>Manual name</th>
<th>Cat. No.</th>
<th>Model</th>
<th>Application</th>
<th>Description</th>
</tr>
</thead>
</table>
| NX-series NX1P2 CPU Unit Hardware User's Manual | W578 | NX1P2-□□□□□ | Learning the basic specifications of the NX-series NX1P2 CPU Units, including introductory information, designing, installation, and maintenance. Mainly hardware information is provided. | An introduction to the entire NX1P system is provided along with the following information on the NX1P2 CPU Unit.  
• Features and system configuration  
• Introduction  
• Part names and functions  
• General specifications  
• Installation and wiring  
• Maintenance and inspection |
| NX-series NX1P2 CPU Unit Built-in I/O and Option Board User's Manual | W579 | NX1P2-□□□□□ | Learning about the details of functions only for an NX-series NX1P2 CPU Unit and an introduction of functions for an NJ/NX-series CPU Unit. | Of the functions for an NX1P2 CPU Unit, the following information is provided.  
• Built-in I/O  
• Serial Option Boards  
• Analog Option Boards  
An introduction of following functions for an NJ/NX-series CPU Unit is also provided.  
• Motion control functions  
• EtherNet/IP communications functions  
• EtherCAT communications functions |
| NX-series NX102 CPU Unit Hardware User's Manual | W593 | NX102-□□□□□ | Learning the basic specifications of NX102 CPU Units, including introductory information, design, installation, and maintenance. Mainly hardware information is provided. | An introduction to the entire NX102 system is provided along with the following information on the CPU Unit.  
• Features and system configuration  
• Introduction  
• Part names and functions  
• General specifications  
• Installation and wiring  
• Maintenance and inspection |
NX-S□□□□□□□  
NX-SO□□□□□  
NX-CSG□□□□ | Learning how to use the NX-series Safety Control Units and Communications Control Units. | Describes the hardware, setup methods, and functions of the NX-series Safety Control Units and Communications Control Units. |
| NX-series Communication Control Unit Built-in Function User's Manual | Z396 | NX-CSG□□□□ | Learning about the built-in functions of an NX-series Communications Control Unit. | Describes the software setup methods and communications functions of an NX-series Communications Control Unit. |
# Terminology

<table>
<thead>
<tr>
<th>Term</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMI</td>
<td>A general term for interface devices that indicates both hardware and software elements. In this manual, “HMI” refers to an OMRON Sysmac-brand product unless otherwise specified.</td>
</tr>
<tr>
<td>PT</td>
<td>The hardware elements of the HMI.</td>
</tr>
<tr>
<td>NA Series</td>
<td>The NA Series of Programmable Terminals and peripheral devices.</td>
</tr>
<tr>
<td>NA5-series PT</td>
<td>NA5-□□□□□□□□□V1 and NA5-□□□□□□□□□.</td>
</tr>
<tr>
<td>NA Unit</td>
<td>An NA-series Programmable Terminal.</td>
</tr>
<tr>
<td>HMI Project</td>
<td>A Sysmac Studio project for an HMI.</td>
</tr>
<tr>
<td>Download</td>
<td>Transferring data from the Sysmac Studio to an HMI.</td>
</tr>
<tr>
<td>Upload</td>
<td>Transferring the project from an HMI to the Sysmac Studio.</td>
</tr>
<tr>
<td>IAG collection</td>
<td>When you provide IAGs, you provide them as IAG collections. IAGs are also imported as IAG collections. An IAG collection contains one or more IAGs.</td>
</tr>
</tbody>
</table>
Revision History

A manual revision code appears as a suffix to the catalog number on the front and back covers of the manual.

<table>
<thead>
<tr>
<th>Revision code</th>
<th>Date</th>
<th>Revised content</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>April 2020</td>
<td>Original production</td>
</tr>
</tbody>
</table>

Cat. No. | V126-E1-01

Revision code
Introduction to the Soft-NA

This section describes the features, basic system configuration, specifications, and operating procedure of the Soft-NA.

1-1 Soft-NA ........................................ 1-2
   1-1-1 Features ...................................... 1-2

1-2 System Requirements .......................... 1-3

1-3 Differences from NA-series Programmable Terminals ............... 1-4
   1-3-1 Differences Concerning System Specifications .................. 1-4
   1-3-2 Differences Concerning the Overall Runtime Operation .......... 1-4
   1-3-3 Differences Concerning the Project System Menu ................. 1-5
   1-3-4 Differences Concerning the Device System Menu ................. 1-5
   1-3-5 Differences Concerning Actions ................................... 1-5
   1-3-6 Differences Concerning System Variables ......................... 1-6
   1-3-7 Differences Concerning Functions ................................. 1-6
1-1 Soft-NA

The Soft-NA is software that displays information on FA manufacturing sites while providing safety, reliability, and maintainability as an industrial display on which operations can be performed as necessary. It includes the functionality of traditional programmable terminals, and provides a clearer, easy-to-use interface.

OMRON offers control devices designed with unified communications specifications and user interface specifications as Sysmac devices. The Soft-NA is software designed to achieve optimum functionality and ease of operation through combination with the NJ/NX/NY-series Controllers and the Sysmac Studio Automation Software.

If you want to connect the Soft-NA to an NJ/NX/NY-series Controller, you can specify the Controller-side memory of the objects on the Program Terminal screens simply by variables. This allows you to create screens without being concerned with the memory map of the Controller.

1-1-1 Features

Software Features

● Compatibility with NA-series Programmable Terminals

The projects of an NA-series Programmable Terminal can be used almost as is. It is possible to have flexible system configurations, such as simultaneous implementation with Windows applications, which cannot be achieved with the NA-series Programmable Terminals.
1-2 System Requirements

To be able to use the Soft-NA, it is necessary that the following requirements are satisfied.

- **When using a commercially-available PC**

<table>
<thead>
<tr>
<th>System requirements</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS</td>
<td>Windows 10 Pro Version 1903 or later 64 bit</td>
</tr>
<tr>
<td>Processor</td>
<td>Intel Atom® x5-E3940 equivalent or higher processor</td>
</tr>
<tr>
<td>RAM</td>
<td>4 GB or more</td>
</tr>
<tr>
<td>Free space in the hard drive necessary for installation</td>
<td>1 GB or more</td>
</tr>
<tr>
<td>Optical disk drive</td>
<td>DVD-ROM drive</td>
</tr>
<tr>
<td>Communication port</td>
<td>USB</td>
</tr>
<tr>
<td></td>
<td>USB2.0 Type-A x 2*1</td>
</tr>
<tr>
<td></td>
<td>LAN</td>
</tr>
<tr>
<td></td>
<td>Ethernet x 2*1</td>
</tr>
</tbody>
</table>

  *1. Since one port is for project transfer, it is not required unless the corresponding path is used.

- **When using the industrial PC platform NY-series**

  The supported models are shown below.
  - NYB□□□-□□3□□*1
  - NYB□□□-□□4□□*1
  - NYP□□□-□□3□□-□□□□□□□□□*1
  - NYP□□□-□□4□□-□□□□□□□□□*1
  *1. Need to be supported only when used on the OS installed during factory dispatch.

**Additional Information**

- When viewing documents, it is necessary to install applications corresponding to the files to be viewed.
- To view movies, it is necessary to install the Windows Media Player.
1-3 Differences from NA-series Programmable Terminals

The Soft-NA and NA-series Programmable Terminals have the following differences:

### 1-3-1 Differences Concerning System Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>NA5-series PT</th>
<th>Soft-NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardware</td>
<td>Dedicated hardware</td>
<td>Commercially-available PC</td>
</tr>
<tr>
<td>Resolution</td>
<td>Fixed as either of the following depending on the model</td>
<td>The following settings can be made on Sysmac Studio</td>
</tr>
<tr>
<td></td>
<td>• 1280 x 800</td>
<td>• 1920 x 1080</td>
</tr>
<tr>
<td></td>
<td>• 800 x 480</td>
<td>• 1280 x 800</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• 800 x 480</td>
</tr>
<tr>
<td>Connectible controllers</td>
<td>• NX/NJ/NY-series Controllers</td>
<td>• NX/NJ/NY-series Controllers</td>
</tr>
<tr>
<td></td>
<td>• NX-CSG320</td>
<td>• NX-CSG320</td>
</tr>
<tr>
<td></td>
<td>• CJ-series PLC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• CK3-series Programmable Multi-Axis Motion Controllers</td>
<td></td>
</tr>
<tr>
<td>Project data transfer method</td>
<td>• Media (USB memory, SD memory card)</td>
<td>• Media (USB memory, SD memory card)</td>
</tr>
<tr>
<td></td>
<td>• Ethernet</td>
<td>• Ethernet</td>
</tr>
<tr>
<td></td>
<td>• USB</td>
<td></td>
</tr>
<tr>
<td>Supported Runtime</td>
<td>1.03 to 1.13</td>
<td>1.11</td>
</tr>
<tr>
<td>NTP client</td>
<td>Available</td>
<td>None*¹</td>
</tr>
<tr>
<td>FINS communications</td>
<td>Supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>VNC functionality</td>
<td>Available</td>
<td>None*¹</td>
</tr>
<tr>
<td>Document viewing</td>
<td>Supported by an internal application</td>
<td>A separate corresponding application is required</td>
</tr>
<tr>
<td>Video playback</td>
<td>Supported by an internal application</td>
<td>A separate corresponding application is required</td>
</tr>
<tr>
<td>Japanese/Asian language input</td>
<td>Japanese/Chinese (simplified, traditional)/Korean are available for data input objects</td>
<td>To enter Japanese/Chinese (simplified, traditional)/Korean in data input objects, use an on-screen keyboard of Windows</td>
</tr>
</tbody>
</table>

*¹: Equivalent functionalities can be implemented by using the Windows functions.

### 1-3-2 Differences Concerning the Overall Runtime Operation

<table>
<thead>
<tr>
<th>Item</th>
<th>NA5-series PT</th>
<th>Soft-NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Startup</td>
<td>Power ON</td>
<td>Run Soft-NA</td>
</tr>
<tr>
<td>Exit</td>
<td>Power OFF</td>
<td>• Exit by the X button on the title bar</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Exit from the System Menu</td>
</tr>
</tbody>
</table>

To enter Japanese/Chinese (simplified, traditional)/Korean in data input objects, use an on-screen keyboard of Windows.
### 1-3-3 Differences Concerning the Project System Menu

<table>
<thead>
<tr>
<th>Item</th>
<th>NA5-series PT</th>
<th>Soft-NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Settings</td>
<td>Used to set the screen saver and the screen brightness.</td>
<td>None*1</td>
</tr>
<tr>
<td>Buzzer Settings</td>
<td>Used to set the buzzer sound.</td>
<td>None</td>
</tr>
</tbody>
</table>

*1. Equivalent functionalities can be implemented by using the Windows functions.

### 1-3-4 Differences Concerning the Device System Menu

<table>
<thead>
<tr>
<th>Item</th>
<th>NA5-series PT</th>
<th>Soft-NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date &amp; Time Settings</td>
<td>Used to set the date and time, and also make settings for synchronization with the time server.</td>
<td>None. *1</td>
</tr>
<tr>
<td>Interface Settings</td>
<td>Used to make settings for the NA Unit interface.</td>
<td>Used to make settings for the Soft-NA interface.</td>
</tr>
<tr>
<td>Screen Brightness</td>
<td>Used to set the brightness of the screen.</td>
<td>None</td>
</tr>
<tr>
<td>Transfer Operations</td>
<td>Used to transfer the project and data.</td>
<td>Used to transfer the project.</td>
</tr>
<tr>
<td>Hardware Diagnostics</td>
<td>Used to calibrate the touch panel.</td>
<td>None</td>
</tr>
<tr>
<td>Production Information</td>
<td>Displays the lot number of the NA Unit and other information.</td>
<td>None</td>
</tr>
<tr>
<td>Display Settings</td>
<td>None</td>
<td>Used to set the display mode and make the operation panel settings.</td>
</tr>
<tr>
<td>Storage Settings</td>
<td>None</td>
<td>Used to make mapping settings such as the USB memory and SD card memory.</td>
</tr>
<tr>
<td>PC Shutdown</td>
<td>None</td>
<td>Used to exit the Soft-NA and shut down Windows.</td>
</tr>
</tbody>
</table>

*1. Equivalent functionalities can be implemented by using the Windows functions.

### 1-3-5 Differences Concerning Actions

The following actions cannot be used in the Soft-NA.
- BuzzerOff
- BuzzerOn
- BuzzerOn (One shot only)
- EjectSDMemory
- SetIMEType
1-3-6 Differences Concerning System Variables

The following system variables cannot be used in the Soft-NA.

- _HMI_Brightness
- _HMI_CanEjectSDCard
- _HMI_ConnectedVNCClients
- _HMI_IsBatteryLow
- _HMI_IsScreenSaverActive

1-3-7 Differences Concerning Functions

The following functions cannot be used in the Soft-NA.

<table>
<thead>
<tr>
<th>Functionality</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>IME</td>
<td>GetIMEType</td>
</tr>
<tr>
<td></td>
<td>SetIMEType</td>
</tr>
<tr>
<td>VNC</td>
<td>GetConnectedVNCClients</td>
</tr>
<tr>
<td></td>
<td>GetServiceState</td>
</tr>
<tr>
<td></td>
<td>IsVNCClientsRestrictionEnabled</td>
</tr>
<tr>
<td></td>
<td>StartService</td>
</tr>
<tr>
<td></td>
<td>StopService</td>
</tr>
<tr>
<td>External storage device</td>
<td>GetConnectedUSBDevices</td>
</tr>
<tr>
<td></td>
<td>EjectSDMemory</td>
</tr>
<tr>
<td></td>
<td>EjectUSBDevice</td>
</tr>
<tr>
<td>Date and time</td>
<td>SetDateTime</td>
</tr>
<tr>
<td>Buzzer</td>
<td>BuzzerOff</td>
</tr>
<tr>
<td></td>
<td>BuzzerOn</td>
</tr>
<tr>
<td></td>
<td>BuzzerOneShot</td>
</tr>
</tbody>
</table>
Installation

This section describes how to install the Soft-NA.

2-1 Installation Method .................................................. 2-2
2-2 Uninstallation Method .................................................. 2-3
2-1 Installation Method

The method of installing the Soft-NA is described below.

Perform the following before starting installation.
• Log in as a user having administrator rights.
• Exit all applications.
• Remove the devices that are not required for installation.
• Remove the USB dongle dedicated to the Soft-NA.

1 Set the installation media of the Soft-NA in the DVD-ROM drive. The setup program starts automatically.

2 The Soft-NA Setup Wizard is displayed.

3 When installation is complete, the following dialog box appears. Select whether you want to immediately restart your PC, and then click Finish Button to complete installation. Be sure to restart the PC before using the Soft-NA.
2-2 Uninstallation Method

The method of uninstalling the Soft-NA is described below.

Perform the following before starting uninstallation.
- Log in as a user having administrator rights.
- Exit all applications.
- Remove the devices that are not required for uninstallation.
- Remove the USB dongle dedicated to the Soft-NA.

1. From the **Windows Settings**, click **Apps**.

2. From the list, click **Soft-NA**, and then click **Uninstall**.
3 When the uninstallation of the Soft-NA is complete, the following dialog box appears. Check the message and then click **Finish** Button.
This section describes how to start and exit the Soft-NA.

3-1 Starting the Soft-NA .................................................. 3-2
3-2 Exiting the Soft-NA ...................................................... 3-5
3-1 Starting the Soft-NA

The method of starting the Soft-NA is described below.

The Soft-NA can be started by the following two methods.
- Double-click the Soft-NA icon on the desktop.
- Select OMRON - Soft-NA from the Start menu, and then click the Soft-NA icon.

Additional Information

If settings have been made to automatically execute the Soft-NA when Windows is started, the Soft-NA may be executed before the startup of the service necessary for executing the Soft-NA, or before the completion of authentication of the USB dongle. In such a case, the Soft-NA startup results in a failure.

If you want to make the settings to automatically execute the Soft-NA when Windows is started, take measures such as delaying startup.

Starting the Soft-NA

If a project is being transferred, the Soft-NA will start after the project being transferred has been loaded. Therefore, use the Soft-NA as is.

The procedure of starting the Soft-NA when a project is not being transferred is described below.

1. Double-click the Soft-NA icon.
2. Double-click any of the four corners of the window.
3 Click **Transfer Operations** Button.

4 Click **Transfer User Program To HMI** Button.

5 Select the snabin file created in Sysmac Studio, and then click **Transfer To HMI**.
6 Click **OK** Button.

7 The project is loaded and the Soft-NA is restarted.
3-2 Exiting the Soft-NA

The method of exiting the Soft-NA is described below.

The Soft-NA can be exit by the following two methods.

- Click the \( \times \) button at the top right of the window.
- Click **Shut down PC** button on the **Device System Menu**.

**Precautions for Correct Use**

Exit the Soft-NA by the correct procedure.

If you forcibly exit the Soft-NA from the Task Manager, or shut down Windows without exiting the Soft-NA, information such as history, etc. may not be saved correctly.

### When exiting with the \( \times \) button at the top right of the window

When you exit the Soft-NA with the \( \times \) button at the top right of the window, you will exit only the Soft-NA.

1. Click the \( \times \) button at the top right of the window.

2. You will exit the Soft-NA.
When exiting from the System Menu

When you exit the Soft-NA from the system menu, shut down Windows after exiting the Soft-NA.

1 Double-click any of the four corners of the window.

2 Click **Device System Menu**.
3 Click Shut down PC Button.

4 Click OK Button.

5 You will exit the Soft-NA, and Windows will be shut down.
Creating and Transferring a Project

This section describes how to create and transfer a project for the Soft-NA.

4-1 Creating a Project .......................................................... 4-2
4-2 Transferring the Project .................................................. 4-7
4-1 Creating a Project

The method of creating a project for the Soft-NA is described below.

The project for the Soft-NA can be created by the following two methods.
- Create a new project for the Soft-NA.
- Convert the project created for the NA5-series PT.

When creating a new project for the Soft-NA

The procedure for creating a new project is same as that for the NA5-series PT except that the model is different.

1. Start Sysmac Studio.
2. Click New Project.
3 Make the settings as shown below, and then click **Create** Button.

<table>
<thead>
<tr>
<th>Setting Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project name</td>
<td>Set as required</td>
</tr>
<tr>
<td>Author</td>
<td>Set as required</td>
</tr>
<tr>
<td>Comment</td>
<td>Set as required</td>
</tr>
<tr>
<td>Type</td>
<td>Standard project</td>
</tr>
<tr>
<td>Category</td>
<td>HMI</td>
</tr>
<tr>
<td>Device</td>
<td>NA-RTLD□□</td>
</tr>
<tr>
<td>Version</td>
<td>1.11</td>
</tr>
</tbody>
</table>

4 Hereafter, create the project according to the same procedure as the NA5-series PT.
When converting a project created for the NA5-series PT

The procedure for converting a project created for the NA5-series PT is described below.

### Additional Information

The project to be converted must be Runtime Ver. 1.11 or below.

1. Start Sysmac Studio.
2. Click **Open Project**.
3. Select the project to be converted, and then click **Open Button**.
4 The project opens.

5 From the menu displayed by right-clicking HMI at the top left of the window, select **Change Device**.

6 Make the settings as shown below, and then click **OK Button**.

<table>
<thead>
<tr>
<th>Setting Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device</td>
<td>NA-RTLD</td>
</tr>
<tr>
<td>Version</td>
<td>1.11</td>
</tr>
</tbody>
</table>
7 A caution is displayed. Check and then click **OK**.

![Warning](image1)

8 A caution is displayed. Check and then click **OK**.

![Warning](image2)

**Additional Information**

Depending on the size of the project, it may take 10 minutes or more for conversion.

9 The project is converted for use with the Soft-NA.

If you are using a function that is not supported by the Soft-NA, a validation error will be displayed. Correct the corresponding locations according to the specifications of the Soft-NA.


4-2 Transferring the Project

The method for transferring a project for the Soft-NA is described below.

The project for the Soft-NA can be transferred by the following two methods.

• Transferring via Ethernet.
• Transferring using media.

Note that the basic operation method is same as that for the NA5-series PT. For details, refer to Section 8 Synchronizing Projects in the NA-series Programmable Terminal Software User’s Manual (Cat. No. V118).

Additional Information

The Soft-NA does not support transfer via the USB.

Differences Concerning Transfer via Ethernet

The cautions to be taken during transfer via Ethernet are described below.

• The PC on which the Soft-NA is installed must be started beforehand.
  Since the transfer process is implemented in the background, the project can be transferred even without logging in to the system.
• Different projects cannot be transferred from each account.
  Use the same project from all accounts.
• If a project is transferred when the Soft-NA is not running, the Soft-NA needs to be manually started.
  If a project is transferred when the Soft-NA is not running, manually start the Soft-NA.
• The port number can be changed.
  The port number can be changed to avoid conflict with other applications running on the PC.

Additional Information

When a project is transferred via Ethernet, it may not be possible to perform communication normally because of the security function of the PC. In such a case, change the settings, such as opening the required port.

Also, with regard to installation, discuss beforehand with the system administrator that there is a possibility of occurrence of a security-related exception, such as opening of a required port for the PC on which the Soft-NA is to be installed.

Differences Concerning Transfer Using Media

The precautions to take during transfer using media are as described below.

• Transfer can be performed from any folder in the PC.

When performing the transfer operation from the System Menu, it is possible to transfer the project from any folder by selecting "Custom" at the time of specifying the Destination Media or Source Media.
This section describes the functionalities of Sysmac Studio related to the Soft-NA.

5-1 Functionalities of Sysmac Studio ...................................................... 5-2
   5-1-1 HMI Settings ................................................................. 5-2
   5-1-2 Communication Settings .................................................. 5-4
   5-1-3 HMI Clock ................................................................. 5-5
   5-1-4 Reset HMI Device .......................................................... 5-5
   5-1-5 IAGs ................................................................. 5-5
5-1 Functionalities of Sysmac Studio

The functionalities of Sysmac Studio that have been changed for use with the Soft-NA are described below.

5-1-1 HMI Settings

Functionalities that are not supported by the Soft-NA have been deleted. Also, the settings for functionalities specific to the Soft-NA have been added.

<table>
<thead>
<tr>
<th>Functionality name</th>
<th>Change</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device Settings</td>
<td>Changed</td>
<td>Changed according to the functionalities of the Soft-NA.</td>
</tr>
<tr>
<td>TCP/IP Settings</td>
<td>Deleted</td>
<td>In the case of the Soft-NA, the settings of the PC on which the Soft-NA is installed are used as network settings. Make the settings from <strong>Network and Internet</strong> under <strong>Windows Settings</strong>.</td>
</tr>
<tr>
<td>FTP Settings</td>
<td>Deleted</td>
<td>Not provided as a functionality of the Soft-NA because various FTP servers have been provided on Windows. The customer is requested to make arrangements for other applications such as IIS, etc.</td>
</tr>
<tr>
<td>NTP Settings</td>
<td>Deleted</td>
<td>Because the settings of the PC itself are used, make the settings from <strong>Date Time</strong> under <strong>Windows Settings</strong>.</td>
</tr>
<tr>
<td>FINS Settings</td>
<td>Deleted</td>
<td>Not supported because the Soft-NA does not support the connection with the CJ-series. If it is necessary to connect to the CJ-series, use the NA5 series PT.</td>
</tr>
<tr>
<td>VNC Settings</td>
<td>Deleted</td>
<td>Not provided as a functionality of the Soft-NA because functionalities such as VNC have been provided on Windows. Either use a Windows standard remote desktop, or a VNC server manufactured by a third party.</td>
</tr>
<tr>
<td>Print Settings</td>
<td>Not changed</td>
<td>There are no changes in the print settings.</td>
</tr>
</tbody>
</table>
# Device Settings

The following functionalities have been deleted from the device settings.

<table>
<thead>
<tr>
<th>Functionality name</th>
<th>Settings</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Software Keypad/USB Keyboard</td>
<td>USB keyboard layout</td>
<td>Because the settings of the PC itself are used, make the settings from Device under Windows Settings.</td>
</tr>
<tr>
<td>Screen Saver</td>
<td>All</td>
<td>Because the settings of the PC itself are used, make the settings from Screen saver settings in Windows.</td>
</tr>
<tr>
<td>Screen Brightness</td>
<td>All</td>
<td>Because the settings of the PC itself are used, adjust the brightness of the display to the required amount.</td>
</tr>
<tr>
<td>Sound</td>
<td>All</td>
<td>Not supported in Version 1.00.</td>
</tr>
</tbody>
</table>

Also, two items have been added as settings for the Soft-NA.

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
</table>
| (a) | Maximum Number of Page Size | The page type specifies the size of the main page. The default value is 1280x800.  
                             | When the settings are changed, all pages in the device are expanded or contracted according to the settings. *1 |
| (b) | Screen Mode              | Specifies the screen mode when the Soft-NA is started. The default value is the Window Mode. |

*1. When the Maximum Number of Page Size is changed, depending on the project size, it may take 10 minutes or more to execute the conversion process.
5 Functionalities of Sysmac Studio

5-1-2 Communication Settings

Functionalities that are not supported by the Soft-NA have been deleted. Also, the settings for functionalities specific to the Soft-NA have been added.

In the case of the Soft-NA, the following communication paths are not supported.

- Direct connection via USB
- Direct connection via Ethernet

Also, one item has been added as the setting for the Soft-NA.

![Communications Setup](image)

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>Port</td>
<td>Specifies the port number used in synchronization.</td>
</tr>
</tbody>
</table>

Additional Information

The Soft-NA does not support the communication test. To check if communication has been established with the PC, change the settings of the Windows Firewall, and use a Ping to confirm.
5-1-3  HMI Clock

Not supported by the Soft-NA. Change the settings of the PC on which the Soft-NA is installed.

5-1-4  Reset HMI Device

Not supported by the Soft-NA.

5-1-5  IAGs

There are the following restrictions during the use of an IAG.

If an action, system variable, or function that cannot be used in the Soft-NA is used, an error occurs, but if it is used in an IAG, an error does not occur in Sysmac Studio. These functions result in an error when executed in the Soft-NA.

Before using an IAG in the Soft-NA, make sure the functionalities not supported in the Soft-NA are not used.
5 Functionalities of Sysmac Studio

NA-series Programmable Terminal Soft-NA User’s Manual (V126)
This section describes the functionalities of the Soft-NA.

### 6-1 Functionalities of the Soft-NA

- **6-1-1 Function Keys** .................................................. 6-2
- **6-1-2 Media Player Object** ........................................... 6-2
- **6-1-3 Document Viewer** ............................................... 6-2
- **6-1-4 Fonts** ............................................................... 6-2

### 6-2 System Menu

- **6-2-1 System Menu Display Methods** ................................. 6-3
- **6-2-2 System Menu Configuration** .................................... 6-4
- **6-2-3 Language Settings (Project System Menu)** ..................... 6-6
- **6-2-4 External Device Settings (Project System Menu)** .......... 6-6
- **6-2-5 User Accounts (Project System Menu)** ..................... 6-7
- **6-2-6 System Menu Settings (Project System Menu)** ............. 6-8
- **6-2-7 Print Settings (Project System Menu)** ....................... 6-8
- **6-2-8 Display Settings (Device System Menu)** .................... 6-9
- **6-2-9 Language Settings (Device System Menu)** .................. 6-9
- **6-2-10 Interface Settings (Device System Menu)** ................. 6-10
- **6-2-11 Storage Settings (Device System Menu)** ................. 6-10
- **6-2-12 Transfer Operations (Device System Menu)** .............. 6-11
6-1 Functionalities of the Soft-NA

The functional differences between the Soft-NA and the NA5-series PT are described below.

6-1-1 Function Keys

The function keys are displayed at the bottom of the window. It is not possible to assign physical buttons.

Settings can also be made to hide the function keys from the System Menu.

6-1-2 Media Player Object

It is necessary to install the Windows Media Player to be able to use the Media Player Object. Media Player Object is not processed in an environment in which the Windows Media Player is not installed.

6-1-3 Document Viewer

The document viewer built into the Soft-NA supports the display of only Adobe Acrobat Documents. To view any other file, it is necessary to install an application that supports the file. If an attempt is made to view a document when the supported application is not installed, an error will occur.

Also, even if the Soft-NA is exited, the other applications are maintained in the state prior to the exit of the Soft-NA.

The operation has been confirmed with the following applications.

<table>
<thead>
<tr>
<th>Format name</th>
<th>Extension</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Excel Book</td>
<td>.xlsx</td>
<td>Microsoft Excel 2016</td>
</tr>
<tr>
<td>Microsoft Word Document</td>
<td>.docx</td>
<td>Microsoft Word 2016</td>
</tr>
</tbody>
</table>

6-1-4 Fonts

The displayed fonts are effected by the environment in which the Soft-NA is installed. If the characters to be displayed do not exist in the specified font, a different font may be displayed depending on the Windows environment. Be sure to check the display in the operating environment.
6-2 System Menu

The functional differences between the Soft-NA and the NA5-series PT are described below. For items undescribed in this manual, refer to 4-3 System Menu Overview and 4-4 System Menu Details in the NA-series Programmable Terminal Hardware (-V1) User’s Manual (Cat. No. V125).

6-2-1 System Menu Display Methods

The System Menu can be started by the following three methods.

- Double-clicking one of the four corners of the window
- Executing the ShowSystemMenu action
- Executing the ShowSystemMenu function in a subroutine

The method of executing the action and subroutine is same as that in the NA5-series PT. For details, refer to 4-3-2 Using the System Menu in the NA-series Programmable Terminal Hardware (-V1) User’s Manual (Cat. No. V125).

- **Double-clicking one of the four corners of the window**
  
  Double-click one of the four corners (orange portions in the figure below) on the Soft-NA window.

---

Additional Information

If you click a corner where an object is displayed, the function of the object is executed. You can also choose the active locations from the four corners.
6-2-2 System Menu Configuration

Same as the NA5-series PT, the System Menu consists of the Project System Menu and the Device System Menu.

The following items and functions are displayed on each System Menu.

• Project System Menu (1/2)

<table>
<thead>
<tr>
<th>Item</th>
<th>Introduction</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Settings</td>
<td>For future expansion.</td>
<td>-</td>
</tr>
<tr>
<td>Language Settings</td>
<td>Used to set the user language and the system language.</td>
<td>6-2-3 Language Settings (Project System Menu) on page 6-6</td>
</tr>
<tr>
<td>External Device Settings</td>
<td>Used to make the external device settings for connected devices.</td>
<td>6-2-4 External Device Settings (Project System Menu) on page 6-6</td>
</tr>
<tr>
<td>User Accounts</td>
<td>Used to make the user account settings.</td>
<td>6-2-5 User Accounts (Project System Menu) on page 6-7</td>
</tr>
<tr>
<td>NJ/NX/NY Troubleshooter</td>
<td>Displays the NJ/NX/NY Troubleshooter.</td>
<td>4-4-5 NJ/NX/NY Troubleshooter (Project System Menu) in the NA-series Programmable Terminal Hardware (-V1) User's Manual (Cat. No. V125)</td>
</tr>
<tr>
<td>Alarm Viewer</td>
<td>Displays user alarms.</td>
<td>4-4-6 Alarm Viewer (Project System Menu) in the NA-series Programmable Terminal Hardware (-V1) User's Manual (Cat. No. V125)</td>
</tr>
<tr>
<td>Project System Menu Set- tings</td>
<td>Used to set the method for starting the System Menu.</td>
<td>6-2-6 System Menu Settings (Project System Menu) on page 6-8</td>
</tr>
<tr>
<td>Device System Menu</td>
<td>Used to perform transfer, etc.</td>
<td>Device System Menu on page 6-5</td>
</tr>
</tbody>
</table>
• Project System Menu (2/2)

<table>
<thead>
<tr>
<th>Item</th>
<th>Introduction</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Print Settings</td>
<td>Used to make print/capture settings on the Soft-NA window.</td>
<td>6-2-7 Print Settings (Project System Menu) on page 6-8</td>
</tr>
<tr>
<td>Buzzer Settings</td>
<td>For future expansion.</td>
<td>-</td>
</tr>
</tbody>
</table>

• Device System Menu

<table>
<thead>
<tr>
<th>Item</th>
<th>Introduction</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Settings</td>
<td>Used to set the screen mode, etc.</td>
<td>6-2-8 Display Settings (Device System Menu) on page 6-9</td>
</tr>
<tr>
<td>Language Settings</td>
<td>Used to make settings for the system language.</td>
<td>6-2-9 Language Settings (Device System Menu) on page 6-9</td>
</tr>
<tr>
<td>Interface Settings</td>
<td>Used to set the port number, etc.</td>
<td>6-2-10 Interface Settings (Device System Menu) on page 6-10</td>
</tr>
<tr>
<td>Storage Settings</td>
<td>Used to make the storage mapping settings.</td>
<td>6-2-11 Storage Settings (Device System Menu) on page 6-10</td>
</tr>
<tr>
<td>Transfer Operations</td>
<td>Used to transfer the project.</td>
<td>6-2-12 Transfer Operations (Device System Menu) on page 6-11</td>
</tr>
<tr>
<td>Shut down PC</td>
<td>Used to exit the Soft-NA and shut down the PC.</td>
<td>When exiting from the System Menu on page 3-6</td>
</tr>
</tbody>
</table>
6-2-3 Language Settings (Project System Menu)

You can use the Language Settings to set the following items.

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>User Language</td>
<td>Used to set the user language.</td>
</tr>
<tr>
<td>(b)</td>
<td>System Language</td>
<td>Displays the system language that is associated with the user language.</td>
</tr>
<tr>
<td>(c)</td>
<td>Keep this setting on a startup language</td>
<td>If you select this check box, the language that is set as the system language is used as the startup language.</td>
</tr>
</tbody>
</table>

6-2-4 External Device Settings (Project System Menu)

You can use the External Device Settings to set the following items.

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>Connected Device List</td>
<td>Displays a list of the connected devices that are registered in the project.</td>
</tr>
<tr>
<td>(b)</td>
<td>Connected Device Communications Settings</td>
<td>Displays the communication settings of the connected device that is selected in the list. Refer to the NA-series Programmable Terminal Device Connection User’s Manual (Cat. No. V119) for details.</td>
</tr>
</tbody>
</table>
6-2-5 User Accounts (Project System Menu)

You can use the User Accounts to set the following items.

**Precautions for Safe Use**

When you change a password, do not reset the Soft-NA or turn OFF the power supply before writing the new password is completed. A failure to store the password may cause the project to fail to function.

**Additional Information**

If you forget a password, there is no way to check for the password on the Soft-NA. Use the Sysmac Studio to check.

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>Name</td>
<td>Used to set the name.</td>
</tr>
<tr>
<td>(b)</td>
<td>Role</td>
<td>Used to select a role.</td>
</tr>
<tr>
<td>(c)</td>
<td>Password</td>
<td>Used to set the password.</td>
</tr>
<tr>
<td>(d)</td>
<td>Comment</td>
<td>Used to set a comment.</td>
</tr>
<tr>
<td>(e)</td>
<td>Save</td>
<td>Used to save the changes.</td>
</tr>
<tr>
<td>(f)</td>
<td>Cancel</td>
<td>Used to discard the changes.</td>
</tr>
<tr>
<td>(g)</td>
<td>Used to edit the selected user account.</td>
<td></td>
</tr>
<tr>
<td>(h)</td>
<td>Used to delete the selected user account.</td>
<td></td>
</tr>
<tr>
<td>(i)</td>
<td>Used to add a new user account.</td>
<td></td>
</tr>
<tr>
<td>(j)</td>
<td>User account table</td>
<td>A list of the user accounts that are currently registered is displayed.</td>
</tr>
</tbody>
</table>
6-2-6 System Menu Settings (Project System Menu)

You can use the System Menu Settings to set the following items.

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>Double-tap Interval</td>
<td>Set the double-tap interval for the operation to start the System Menu.</td>
</tr>
<tr>
<td>(b)</td>
<td>Detectable Corner</td>
<td>Used to set the double-tap detection positions for the operation to start the System Menu.</td>
</tr>
</tbody>
</table>

6-2-7 Print Settings (Project System Menu)

You can use the Print Settings to set the following items.

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>Color Mode</td>
<td>Select from among the following options for colors and/or reverse display of printing or capturing screens:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Color</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Grayscale</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Reverse Grayscale</td>
</tr>
<tr>
<td>(b)</td>
<td>Print With Title</td>
<td>Select this check box to insert a screen title during printing/capturing of the screen.</td>
</tr>
</tbody>
</table>
6-2-8 Display Settings (Device System Menu)

You can use the Display Settings to set the following items.

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>Select Window Style</td>
<td>Used to set a window style.</td>
</tr>
<tr>
<td>(b)</td>
<td>Operation Panel Visibility</td>
<td>Used to set the display position of the operation panel.</td>
</tr>
</tbody>
</table>

6-2-9 Language Settings (Device System Menu)

You can use the Language Settings to set the following items.

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>Languages</td>
<td>Used to set the system language. Note that the Project System Menu Language Settings are given priority as the system language settings.</td>
</tr>
</tbody>
</table>
**6-2-10 Interface Settings (Device System Menu)**

You can use the Interface Settings to set the following items.

![Interface Settings](image)

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>TCP port number</td>
<td>Used to set the port number used for synchronization with Sysmac Studio.</td>
</tr>
</tbody>
</table>

**6-2-11 Storage Settings (Device System Menu)**

You can use the Storage Settings to set the folder to which the definition expressing the device is to be assigned. After changing these settings, Soft-NA needs to be restarted.

**Additional Information**

- The Soft-NA does not support "USBDisk2".
- The operation is not guaranteed if a folder on the network is assigned.

![Storage Settings](image)

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>USB Directory</td>
<td>Used to set the folder to which &quot;USBDisk&quot; is to be assigned.</td>
</tr>
<tr>
<td>(b)</td>
<td>SDCard Directory</td>
<td>Used to set the folder to which &quot;SDCard&quot; is to be assigned.</td>
</tr>
<tr>
<td>(c)</td>
<td>FTP Directory</td>
<td>Used to set the folder to which &quot;FTP&quot; is to be assigned.</td>
</tr>
</tbody>
</table>
6-2-12 Transfer Operations (Device System Menu)

This screen is used to transfer the project and other data.

You can click any of the icons to display the individual transfer screens.

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>Transfer User Program To HMI</td>
<td>Used to download the project.</td>
</tr>
<tr>
<td>(b)</td>
<td>Transfer User Program From HMI</td>
<td>Used to upload the project.</td>
</tr>
</tbody>
</table>

**Additional Information**

The Soft-NA does not support **Transfer Data To HMI** and **Transfer Data From HMI**. Directly acquire the data from the folder set in the Storage Settings.
### Transfer User Program To HMI

This screen is used to download the project from the specified location.

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>Source Media</td>
<td>Specifies the media that contains the project to download. Select <strong>Custom</strong> to select any folder.</td>
</tr>
<tr>
<td>(b)</td>
<td>Path</td>
<td>Displays the path of the folder displayed in (c).</td>
</tr>
<tr>
<td>(c)</td>
<td>Folder Contents</td>
<td>Displays the files and folders in the currently open folder.</td>
</tr>
<tr>
<td>(d)</td>
<td>Compare With HMI</td>
<td>Used to compare the selected project and project in HMI.</td>
</tr>
<tr>
<td>(e)</td>
<td>Transfer To HMI</td>
<td>Used to download the selected project to HMI.</td>
</tr>
</tbody>
</table>
### Transfer User Program From HMI

This screen is used to upload the project to the specified location.

![Transfer User Program From HMI Screen]

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>Destination Media</td>
<td>Specifies the media to which to upload the project. Select <strong>Custom</strong> to select any folder.</td>
</tr>
<tr>
<td>(b)</td>
<td>Path</td>
<td>Displays the path of the folder displayed in (c).</td>
</tr>
<tr>
<td>(c)</td>
<td>Folder Contents</td>
<td>Displays the files and folders in the currently open folder.</td>
</tr>
<tr>
<td>(d)</td>
<td>File Name</td>
<td>Specifies the file name.</td>
</tr>
<tr>
<td>(e)</td>
<td>Transfer From HMI</td>
<td>Used to upload the selected project to the destination media.</td>
</tr>
</tbody>
</table>
Handling Errors

This section describes how to troubleshoot errors in the Soft-NA.

7-1 Operation after an Error .......................................................... 7-2
7-2 Troubleshooting ................................................................. 7-2
  7-2-1 When the Soft-NA does not start ............................................. 7-2
  7-2-2 Causes and Correction When You Cannot Go Online from the Sysmac Studio ... 7-3
  7-2-3 Troubleshooting Soft-NA Errors ............................................. 7-5
7-1 Operation after an Error

Because the Soft-NA is a Windows application, the operation in the case of an error is same as a general Windows application.
Also, the error status is output in the Windows log - application.

7-2 Troubleshooting

This section provides flowcharts for basic error identification and troubleshooting, and error corrections in the case of occurrence of an error in the Soft-NA.

7-2-1 When the Soft-NA does not start

The general actions to be taken when the Soft-NA does not start are described below.

Additional Information

If the Soft-NA is started immediately after starting Windows, it may not start normally.
This may be because the start of services necessary for the execution of the Soft-NA and identification of the USB dongle are not complete immediately after Windows is started. Wait for some time before starting the Soft-NA.

- When the Soft-NA window is not displayed at all
  There could be a problem in the installation status of the Soft-NA or Windows.
  Execute the following steps, and check if the problem does not occur any more.

  2. Start the Soft-NA after stopping the anti-virus software.
  4. Execute Windows Update, and start the Soft-NA after setting Windows to the recent state.
  5. Start the Soft-NA after reinstalling Windows.

- When the Soft-NA window is displayed
  There could be a problem in the project data. Again transfer the project data from Sysmac Studio to check if the problem still occurs.
  If there is no improvement even after transferring the project data again, also refer to the actions to be taken under When the Soft-NA window is not displayed at all on page 7-2.
7-2-2 Causes and Correction When You Cannot Go Online from the Sysmac Studio

The following table lists the possible causes when you cannot go online with the Soft-NA from the Sysmac Studio.

<table>
<thead>
<tr>
<th>Cause</th>
<th>Description</th>
<th>Correction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incorrect settings or faulty communications path</td>
<td>There is a mistake in the settings that the Sysmac Studio uses to go online with the Soft-NA. Or, the communications path is faulty.</td>
<td>Refer to Troubleshooting Incorrect Settings and Faulty Communications Path on page 7-3.</td>
</tr>
<tr>
<td>Inability to operate the Soft-NA</td>
<td>An error according to which the operation of the Soft-NA stops has occurred.</td>
<td>Restart the Soft-NA or PC.</td>
</tr>
<tr>
<td>High load on the PC</td>
<td>The load on the PC is too high and there is not enough time to connect to Sysmac Studio.</td>
<td>Exit the other applications. Also, execute the operation after waiting for processes being executed in the background, such as a virus scan, etc. to end.</td>
</tr>
</tbody>
</table>

Troubleshooting Incorrect Settings and Faulty Communications Path

The actions to take for "Incorrect settings or faulty communications path" are described below.

1. **Sysmac Studio cannot connect to the PC.**
   - **Is power supplied to the PC?**
     - Yes: **Can the Sysmac Studio go online with the PC?**
       - Yes: **Turn ON the power supply to the PC.**
       - No: **Are the Ethernet cables connected properly?**
         - Yes: **Can the Sysmac Studio go online with the PC?**
           - Yes: **Insert the cable connectors at the personal computer and Ethernet switches until they lock into place. Make sure the LINK indicator on the PC (switching hub) is lit.**
           - No: **Correct the Connection-destination IP address in Communications Setup of the Sysmac Studio.**
         - No: **Is the Connection-destination IP address set correctly in the Communications Setup of the Sysmac Studio?**
           - Yes: **Can the Sysmac Studio go online with the PC?**
             - Yes: **A**
             - No: **Can the Sysmac Studio go online with the PC?**
               - Yes: **B**
               - No: **Correct the Connection-destination IP address in Communications Setup of the Sysmac Studio.**
   - No: **Turn ON the power supply to the PC.**
Handling Errors

Is the same IP address set for more than one node (e.g., Sysmac Studio or Soft-NA) in the same domain?

Yes

Set the IP addresses for Sysmac Studio and Soft-NA.

No

Can the Sysmac Studio go online with the PC?

Yes

No

Make the Port setting same on both Communications Setup of Sysmac Studio and Device System Menu - Interface Settings of Soft-NA.

Is the designated port number set on Sysmac Studio and Soft-NA?

Yes

Can the Sysmac Studio go online with the PC?

No

Check if any other application is using the designated port number. If it is already in use, select a different port number. In addition, check if the designated port number is disabled by firewall or others.

Yes

Can the Sysmac Studio go online with the PC?

No

Change the Ethernet interface card specification at the Sysmac Studio or connect the Ethernet cable to the specified Ethernet interface card. Refer to the appendices of the Sysmac Studio Version 1 Operation Manual (Cat. No. W504-E1) for the procedure to specify the Ethernet interface card.

Is the designated port number used only by Sysmac Studio and Soft-NA?

Yes

No

Is the Ethernet cable connected to the Ethernet interface card that is specified to use for connection in the Sysmac Studio?

Yes

Replace the Ethernet cable or Ethernet switch.

No

Can the Sysmac Studio go online with the PC?

Yes

END
7-2-3 Troubleshooting Soft-NA Errors

The actions to take when an error occurs in the Soft-NA are described below.

- **Errors determined from Soft-NA symptoms**

<table>
<thead>
<tr>
<th>Soft-NA symptom</th>
<th>Cause</th>
<th>Correction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nothing is displayed on the screen</td>
<td>The screen saver functionality has been activated.</td>
<td>This is not an error. Disable the screen saver by clicking the mouse or performing some other action.</td>
</tr>
<tr>
<td>There is no response to clicking.</td>
<td>External noise has caused a malfunction.</td>
<td>Shut down the PC and take measures against noise.</td>
</tr>
<tr>
<td></td>
<td>A problem has occurred in an input device, such as the mouse.</td>
<td>Check if the input device is operating normally in an application other than the Soft-NA.</td>
</tr>
<tr>
<td></td>
<td>The application response is delayed due to a high load.</td>
<td>Exit the other applications. Also, wait for processes executed temporarily in the background, such as Windows Update, etc. to end.</td>
</tr>
<tr>
<td>The display is dark</td>
<td>There is a problem in Windows or the display settings.</td>
<td>Check Windows and display settings.</td>
</tr>
<tr>
<td>Numbers or characters are refreshed too slowly</td>
<td>Communications are not stable due to external noise.</td>
<td>Separate the communications cables from power lines and perform other noise countermeasures.</td>
</tr>
<tr>
<td></td>
<td>There are too many objects on the display screen.</td>
<td>Decrease the number of objects on the screens for which refreshing is slow.</td>
</tr>
<tr>
<td></td>
<td>There is a heavy processing load on the connected device that is resulting in extended cycle times.</td>
<td>Reduce the cycle time of the connected device.</td>
</tr>
<tr>
<td></td>
<td>The message communications interval is too long.</td>
<td>Shorten the refreshing interval of the variable that is allocated to the object.</td>
</tr>
<tr>
<td>Gauges are refreshed too slowly</td>
<td>Too many objects overlap the gauges.</td>
<td>If multiple images are stacked behind the gauges, put them together in a single image. Lay out the gauges so that they do not overlap with other objects.</td>
</tr>
<tr>
<td>Some of the objects on the screen are not displayed</td>
<td>The IsVisible Check Box is not selected in the object settings.</td>
<td>Select the IsVisible Check Box in the object properties on the Sysmac Studio. If you change the IsVisible property, e.g., from a subroutine, set it to True.</td>
</tr>
<tr>
<td>The trend graph display does not match the actual log timing</td>
<td>The communications address that is set as the event for the log timing is turning ON and OFF at a high speed.</td>
<td>Increase the ON/OFF interval for the communications address used as the event.</td>
</tr>
<tr>
<td>Numeric values cannot be input</td>
<td>The upper/lower limit check for numeric inputs is operating.</td>
<td>Check the minimum value and maximum value properties of the object on the Sysmac Studio and correct them as required.</td>
</tr>
</tbody>
</table>
Handling Errors

Errors determined with messages

<table>
<thead>
<tr>
<th>Output message</th>
<th>Cause</th>
<th>Correction</th>
</tr>
</thead>
<tbody>
<tr>
<td>E_SNA_999</td>
<td>An unexpected error occurred during Runtime execution.</td>
<td>Restart the Soft-NA.</td>
</tr>
<tr>
<td>E_SNA_001</td>
<td>There is a problem in the project data.</td>
<td>Transfer the project data again from Sysmac Studio.</td>
</tr>
<tr>
<td>E_SNA_100</td>
<td>The Soft-NA was started when it was already running.</td>
<td>Exit the running Soft-NA, and then execute it.</td>
</tr>
<tr>
<td>E_SNA_101</td>
<td>An unexpected error occurred during Runtime execution.</td>
<td>Restart the Soft-NA.</td>
</tr>
<tr>
<td>E_SNA_102</td>
<td>There is a problem in the project data.</td>
<td>Transfer the project data again from Sysmac Studio.</td>
</tr>
<tr>
<td>E_SNA_103</td>
<td>There is a problem in the project data.</td>
<td>Transfer the project data again from Sysmac Studio.</td>
</tr>
</tbody>
</table>
| E_SNA_104      | The USB dongle cannot be accessed from the Soft-NA. | • Insert the USB dongle for the Soft-NA into the PC.  
• Restart the PC.  
• Try restarting the Soft-NA after waiting for around 30 seconds. |
| E_SNA_105      | The USB dongle cannot be accessed from the Soft-NA. | • Insert the USB dongle for the Soft-NA into the PC.  
• Restart the PC.  
• Try restarting the Soft-NA after waiting for around 30 seconds. |
| "Transferring project data to HMI" failed. | Failed to transfer the project data. | • Assign write permission for <Soft-NA Installation Drive>\OMRON.  
• Again create the project data for transfer in Sysmac Studio. |
<table>
<thead>
<tr>
<th>Output message</th>
<th>Cause</th>
<th>Correction</th>
</tr>
</thead>
<tbody>
<tr>
<td>“Transferring project data from HMI” failed.</td>
<td>Failed to transfer the project data.</td>
<td>• Check if the folder specified as the transfer destination can be accessed.</td>
</tr>
<tr>
<td></td>
<td>Check the settings on the transfer destination.</td>
<td>• Assign write permission for the transfer destination.</td>
</tr>
<tr>
<td>Failed to display documentation.</td>
<td>The application for displaying the document is not installed.</td>
<td>Install the application corresponding to the document attempted to be viewed.</td>
</tr>
<tr>
<td>Failed to display documentation.</td>
<td>A file with an unsupported format is set as the document.</td>
<td>Convert the file to a supported file format.</td>
</tr>
<tr>
<td>Unexpected error in media player.</td>
<td>• Windows Media Player is not installed.</td>
<td>• Install the Windows Media Player.</td>
</tr>
<tr>
<td></td>
<td>• An attempt is made to play back a file with an unsupported file format.</td>
<td>• Convert the file to a supported file format.</td>
</tr>
</tbody>
</table>
7 Handling Errors
Appendices

The appendices provide the version upgrade history and other information.

A-1 Differences between the Soft-NA and the Simulator .................. A-2
A-2 Version Upgrade History ..................................................... A-3
  A-2-1 Common Version Upgrade History for Sysmac Studio and the Soft-NA ...... A-3
  A-2-2 Soft-NA Version Upgrade History ............................................... A-3
  A-2-3 Sysmac Studio Corresponding Versions ........................................ A-3
A-1 Differences between the Soft-NA and the Simulator

The following major differences exist between the Soft-NA and the Simulator. In addition, the display by the Simulator is not guaranteed to be completely compatible with the Soft-NA. Always perform the final check with the Soft-NA on a PC which is going to be used.

• Trend Graph and Broken-line Graph Objects
  The Simulator does not update graphic displays. Fixed still images are displayed.

• ShowTroubleshooter Action and ShowTroubleshooter Function
  Not operated by the Simulator.

• Media Player Object
  There may be some differences in the behavior or timing when a video is replayed. Moreover, the action or function for operating the Media Player Object is not executed.

• System Menu
  Not operated by the Simulator.
A-2  Version Upgrade History

This section describes the functions that have been added or enhanced as a result of a version upgrade.

A-2-1  Common Version Upgrade History for Sysmac Studio and the Soft-NA

Sysmac Studio Ver.1.40, Soft-NA Ver.1.00

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>First release</td>
<td>Support for Soft-NA</td>
</tr>
</tbody>
</table>

A-2-2  Soft-NA Version Upgrade History

Soft-NA Ver.1.00

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>First release</td>
<td>First release</td>
</tr>
</tbody>
</table>

A-2-3  Sysmac Studio Corresponding Versions

<table>
<thead>
<tr>
<th>Sysmac Studio</th>
<th>Runtime</th>
<th>Soft-NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.40</td>
<td>1.11</td>
<td>1.00</td>
</tr>
</tbody>
</table>
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