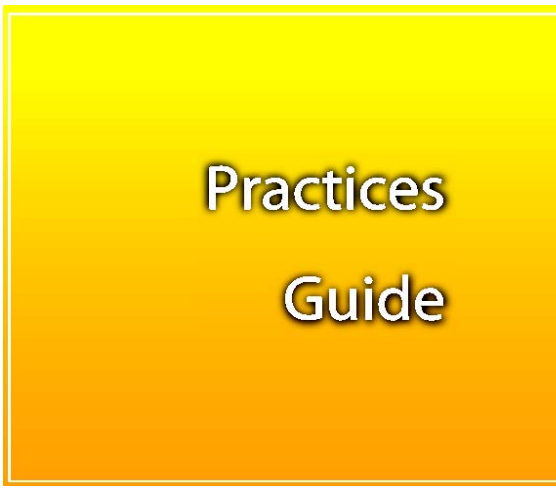
OMRON

Programmable Terminal NA Series

# Practice Guide
# IAG Collection for NXR-ILM
# IO-Link Master Unit Monitor

NA5-15□101□
NA5-12□101□

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## ■ Introduction

This guide describes reference information to create and use IAG objects. It does not provide safety information for an entire system.
Be sure to obtain the manuals for NA Series Programmable Terminal, 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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  (b) Usage out of the conditions
  (c) Usage out of Note about Use in these conditions
  (d) Remodeling/repairing by anyone except Omron
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# Table of Contents

# 1 Related Manuals

| No. | Model | Title |
|---|---|---|
| V117 | NA5-15W□□□□<br>NA5-12W□□□□<br>NA5-9W□□□□<br>NA5-7W□□□□ | Programmable Terminal NA Series Hardware USER'S MANUAL |
| V118 | NA5-15W□□□□(-V1)<br>NA5-12W□□□□(-V1)<br>NA5-9W□□□□(-V1)<br>NA5-7W□□□□(-V1) | Programmable Terminal NA Series Software USER'S MANUAL |
| V119 | NA5-15W□□□□(-V1)<br>NA5-12W□□□□(-V1)<br>NA5-9W□□□□(-V1)<br>NA5-7W□□□□(-V1)<br>NA-RTLD□□ | Programmable Terminal NA Series Device Connection USER'S MANUAL |
| V120 | NA5-15W□□□□<br>NA5-12W□□□□<br>NA5-9W□□□□<br>NA5-7W□□□□ | Programmable Terminal NA Series STARTUP GUIDE |
| V125 | NA5-15□101□-V1<br>NA5-12□101□-V1<br>NA5-9□001□-V1<br>NA5-7□001□-V1 | Programmable Terminal NA Series Hardware (-V1) USER'S MANUAL |
| W504 | SYSMAC-SE2□□□ | Sysmac Studio Version 1 OPERATION MANUAL |

# 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.
(4) 
(5) The information in this guide is current as of March 2020. It is subject to change without notice because of product's update.
(6) This IAG library has been tested with the system configuration in 3-2 "System Configuration." However, Omron does not guarantee screen operations after embedding the IAGs.

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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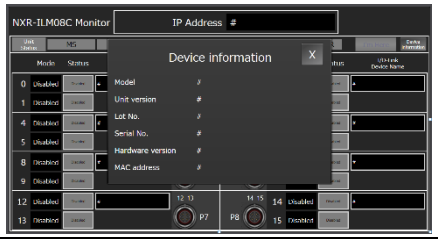
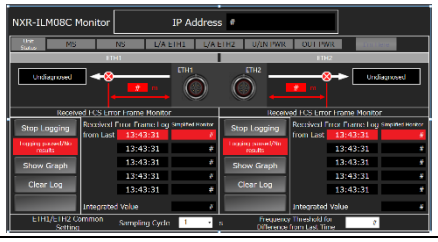
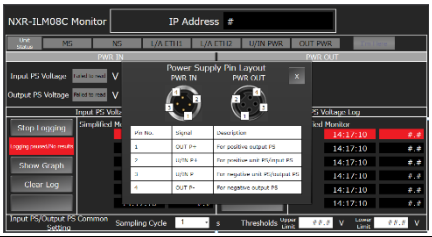
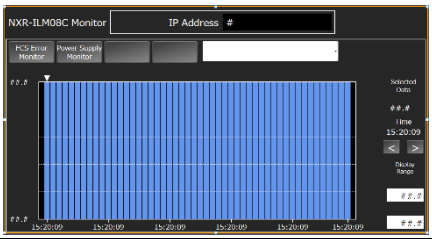
# 3 Overview

## 3-1 Overview

This document describes IAG collections that directly read the information from the NXR-ILM Unit, IO-Link master unit connected with the NA Series HMI via EtherNet/IP.

- IAG external specifications
- IAG installation on a screen

| IAG | Icon | Description |
|---|---|---|
| IOStatus_Monitor |  | Monitors conditions of LEDs and IO ports. |
| EIPStatus_Monitor |  | Monitors EtherNet port connections and FCS errors and logs them. |
| DCVoltage_Monitor |  | Monitors input/output power supply voltage and logs them. |
| MultiStatication_Viewer |  | Illustrates logs of FCS errors or power supply voltages in a graph. |

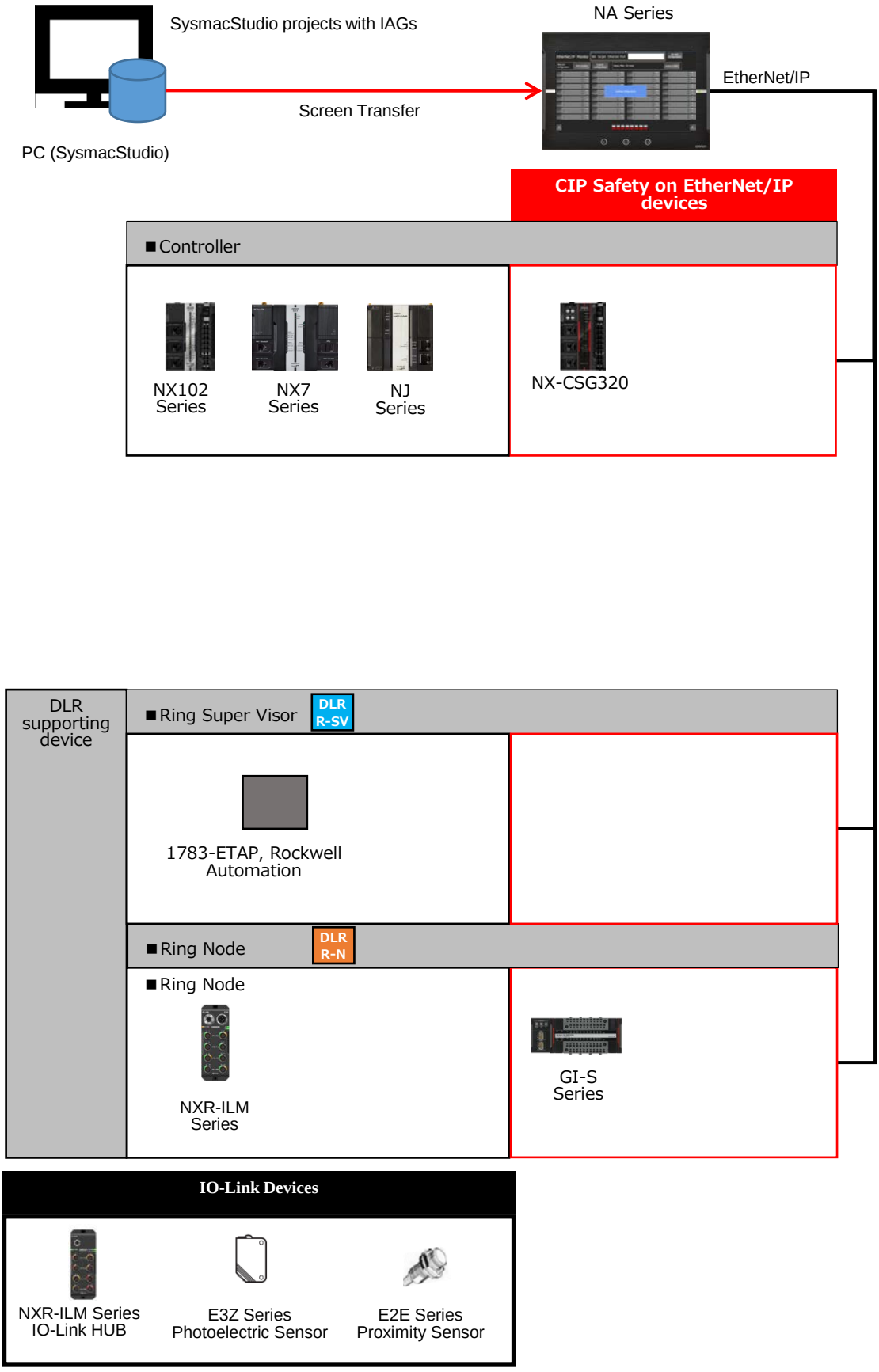
These IAGs are included in the IAG collection file below.

| File name | Description |
|---|---|
| NXR_ILM_Monitor_12inch_*.iag | For 12 and 15-inch units. **"*"** stands for a version. |

Ask the Omron sales representative for the file.

## 3-2 System Configuration

The IAG objects were tested with the system configuration and versions below.



# 4 Library Versions

This chapter describes the versions of the IAG library.
You must check versions of the items listed in the table below before using the library.

| Item | Description | How to Check the Version |
|---|---|---|
| IAG Collection | The distributed IAG collection has library versions. | The version can be checked in the Sysmac Studio IAG Collections Manager pop-up. |
| IAG | Version of each IAG. It manages specification change, bug correction, and others. | The version can be checked as an IAG property in IAG Collections Manager. Also, in Properties after located as an object. |
| NA | The version of NA with which IAG has been created. IAG library is not applicable to older versions than that in this guide because supported functions depend on versions. | See **Minimum supported HMI version** in IAG Collections Manager. |
| NA OS | The version which NA runtime can operate. It differs according to NA's Runtime version. | System Menu of NA. It will be checked if necessary when you upgrade NA runtime version of a project in Sysmac Studio. |

Versions of IAG collection, NA runtime, and OS in this guide

| Item | Version | Remarks |
|---|---|---|
| IAG Collection | Ver1.00 | Filename extension is ".iag". |
| IAG | Noted individually | Refer to Chapter5 "Properties." |
| NA | Ver. 1.12 and higher | |
| NA OS | Ver. 7.4.0 and higher | |

EtherNet I/P devices that the IAG collection supports, and the versions

| Supported Device | Version | Remarks |
|---|---|---|
| NX102□□□□ | Ver. 1.31 and later | Operation tested with Ver. 1.31 |
| NX102□□□□ | Ver. 1.18 and later | Operation tested with Ver. 1.18 |
| NX7□□□□ | Ver. 1.18 and later | Operation tested with Ver. 1.18 |
| NXR-ILM08C | Ver. 1.0 and later | Operation tested with Ver. 1.0 |
| NXR-□D166C | Ver. 1.0 and later | Operation tested with Ver. 1.0 |

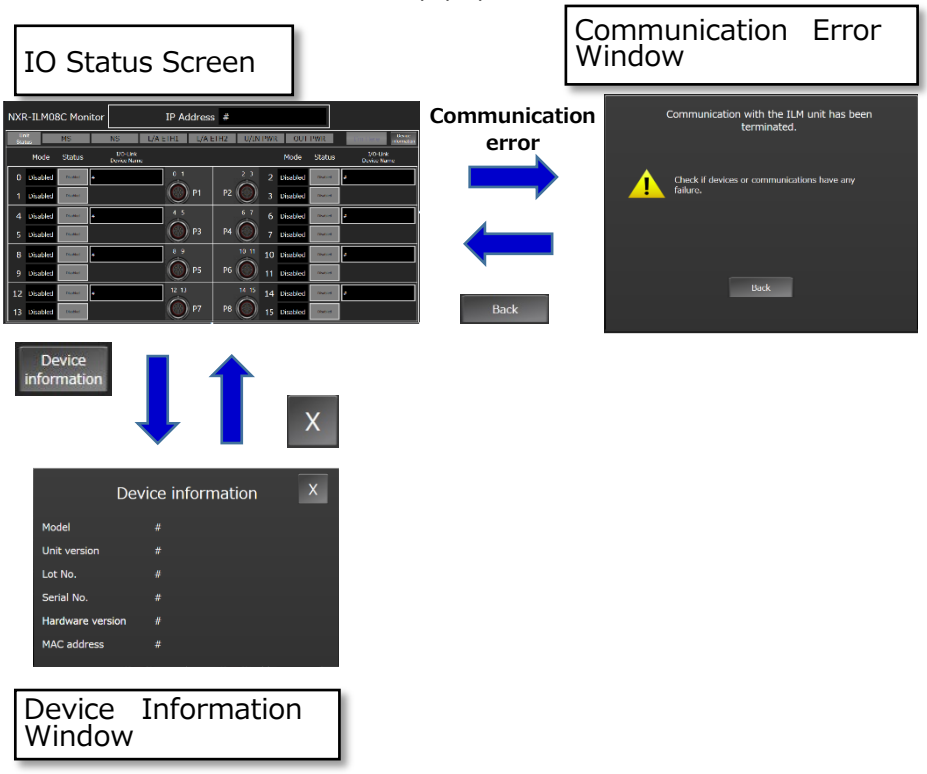
# 5 IAG Descriptions

## 5-1 IOStatus_Monitor

### 5-1-1 Specifications

- External Specifications

| | |
|---|---|
| **Object** | IOStatus_Monitor |
| **Category** | NXR_ILM_Monitor |
| **Functions** | ・Displays LED conditions of the NXR-ILM Unit (IO-Link master unit) with the selected IP address.<br>・Displays models and communication statuses of connected IO-Link units.<br>・Reads the device information from the NXR-ILM Unit (IO-Link master unit) to display. |
| **Graphics** | This IAG consists of one screen and two pop-ups. |

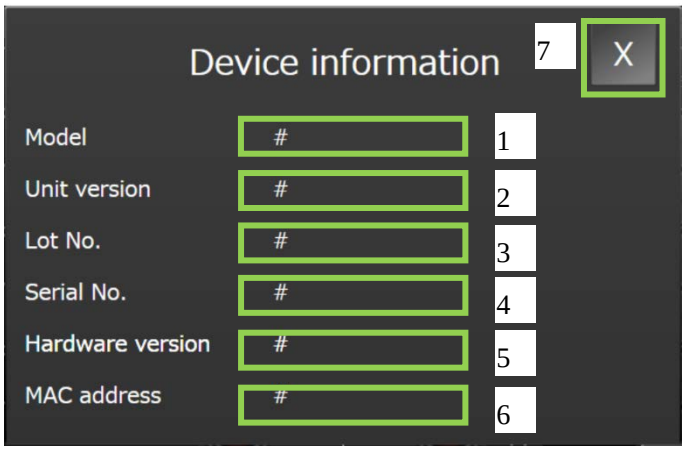


● Screen Specifications

| | |
|---|---|
| IO Status Screen | Displays the information of the IO-Link master unit whose IP address is notified externally. |


| No. | Part | Description |
|---|---|---|
| 1 | DataDisplay | IP address of the selected device is displayed. |
| 2 | Group | Unit status is displayed. Refer to No. 8 and later for details. |
| 3 | Button | The LED that indicates the location of the IO-Link master unit on the screen is lit when this button is pressed.<br>It is for expansion and not shown in the actual NA. |
| 4 | Button | Displays Device Information Window. |
| 5 | DataDisplay | Displays pin modes of Pin4 (upper) and Pin2 (lower) for each IO port as the following.<br>Pin4: Any of *Disabled*, *DI*, *DO*, or *IO-Link*<br>Pin2: Any of *Disabled*, *DI*, or *DO* |
| 6 | Button<br>WordLamp | Displays statuses of Pin4 (upper) and Pin2 (lower) for each IO port as the following.<br>Pin4: Any of *Disabled*, *ON*, *OFF*, *Communicating with IO-Link Unit*, *Error in IO-Link Unit*, *Short circuit detected*, or *Not connected*.<br>Pin2: Any of *Disabled*, *ON*, *OFF*, *Short circuit detected*, or *Not connected*.<br>Pressing the Pin4 button when *Communicating with IO-Link Unit* or *Error in IO-Link Unit* is being displayed executes the event *ShowPortStatusEvent.* |
| 7 | Button | Connected device name is displayed only when the pin mode is *IO-Link*; otherwise, "-" is displayed.<br>Executes events for connected devices.<br>For NXR-D Series Units, the event *SelectNXR_D_SeriesEvent* is performed. |
| 8 | Lamp | Unit status is displayed. |
| 9 | Lamp | Network condition is displayed. |
| 10 | Lamp | Displays EtherNet1 port condition. |
| 11 | Lamp | Displays EtherNet2 port condition. |
| 12 | Lamp | Displays the condition of the input power supply voltage. |
| 13 | Lamp | Displays the condition of the output power supply voltage. |

| | |
|---|---|
| Device Information Window | This window shows the device information. |

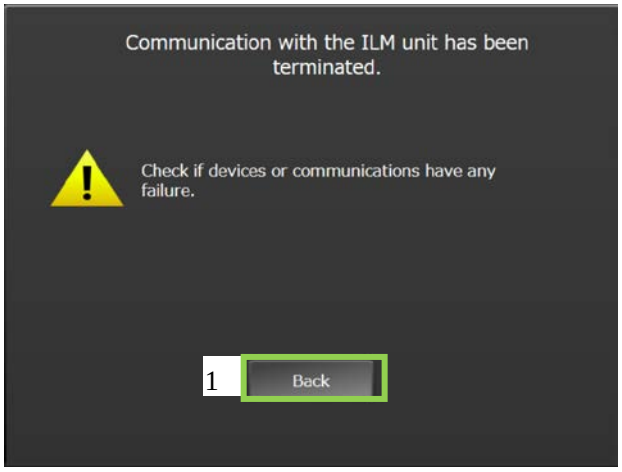



User I/F Specifications

| No. | Part | Description |
|---|---|---|
| 1 | DataDisplay | Unit model is displayed. |
| 2 | DataDisplay | Unit version is displayed |
| 3 | DataDisplay | Lot number is displayed. |
| 4 | DataDisplay | Serial number is displayed. |
| 5 | DataDisplay | Hardware version is displayed. |
| 6 | DataDisplay | MAC address is displayed. |
| 7 | Button | Closes this window. |

Layout

| Properties | Default | Description |
|---|---|---|
| Position (Left, Up) | | Fixed |
| ▼Size (Width, Height) | | Fixed |

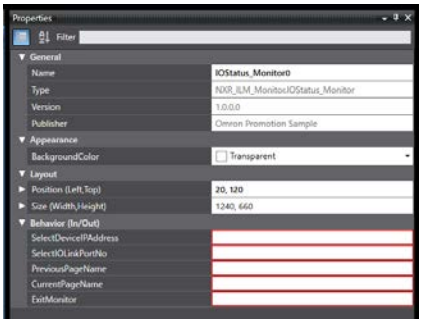
| | |
|---|---|
| Communication Error Window | This pop-up window notifies that communications between the NA and IO-Link master unit were failed. |
| |  |

| User I/F Specifications | | |
|---|---|---|
| No. | Part | Description |
| 1 | Button | Switches the window to the previously shown screen. |
| Layout | | |
| Properties | Default | Description |
| Position (Left, Up) | | Fixed |
| ▼Size (Width, Height) | | Fixed |

● Properties

| Property | Description | Input Mode | Input Range<br>Data Type | Default |
|---|---|---|---|---|
| General | | | | |
| Name | Object name. Must not be overlapped in a screen. | Direct input | Character string (1 to 127) | IOStatus_Monitor0 |
| Type | Object type. Not changeable. | - | - | NXR_ILM_Monitor.<br>IOStatus _Monitor |
| Version | IAG version | - | - | 1.0.0.0 |
| Publisher | IAG publisher | - | - | Omron Promotion Sample |
| Appearance | | | | |
| Background Color | Background color of a page | Item selection<br>Direct input | Color pallet<br>Character string | Transparent[1] |
| Layout | | | | |
| ▼Position (Left , Top) | Position setting of an object in a page.[2] | Direct input<br>Spin button | Numeric<br>Numeric | - |
| Left | Horizontal position (X-axis) of the top-left corner of an object on a page | Direct input<br>Spin button | Numeric<br>Numeric | - |
| Top | Vertical position (Y-axis) of the to-left corner of an object on a page | Direct input<br>Spin button | Numeric<br>Numeric | - |
| ▼Size (Width, Height) | Object size setting. | Direct input<br>Spin button | Numeric<br>Numeric | （1240,660） |
| Width | Width of object | Direct input<br>Spin button | Numeric<br>Numeric | 1240 |
| Height | Height of object | Direct input<br>Spin button | Numeric<br>Numeric | 660 |
| Input/Output | | | | |
| SelectDeviceIPAddress | IP address of the selected device | Variable specification | String | |
| SelectIOLinkPortNo | Port number of the selected IO-Link unit | Variable specification | Byte | |
| PreviousPageName | Name of the page displayed after this page is closed | Variable specification | String | |
| CurrentPageName | Page name of this IAG | Variable specification | String | |
| ExitMonitor | Flag to close this page | Variable specification | Boolean | |

**Image**




1: Transparent
2: The origin of coordinates locates at the top left corner of NA screen.

## Precautions for Correct Use

The use case in this guide does not require settings for IO variables *CurrentPageName* and *ExitMonitor*. Leave them blank; if not, the IAG may perform an unintended operation.

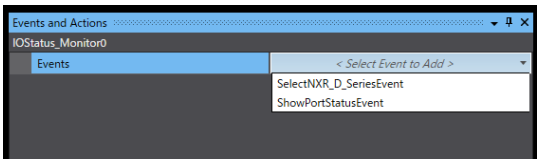
● Version History

| IAG version | Description | IAG collection version |
|---|---|---|
| 1.0.0.0 | First edition | Ver1.00 |

● Events & Actions

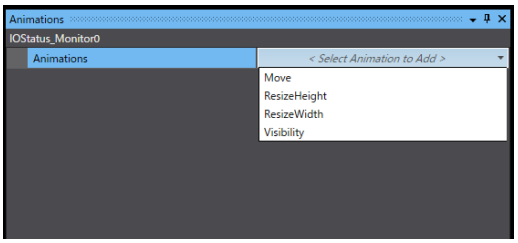
The following IAG event can be detected.

| Event | Description |
|---|---|
| ShowPortStatusEvent | Detects the event that an IO-Link port status button on the screen is pressed to be selected. |
| SelectNXR_D_SeriesEvent | Detects the event that an NXR-D Series (IO-Link HUB) device name button on the screen is pressed to be selected. |




● Animations

Basic motions can be defined.




● Security

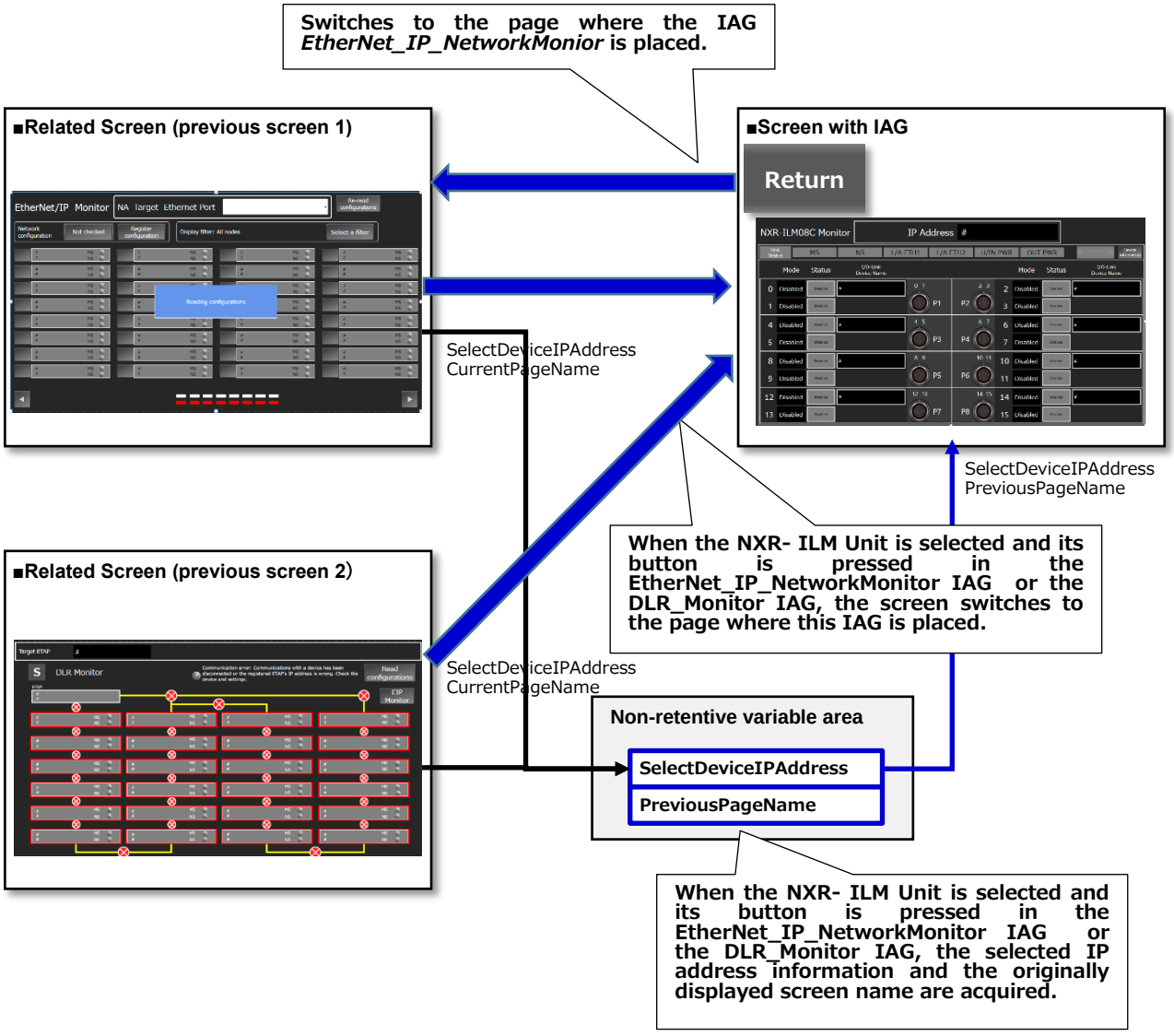
No security function available.

## 5-1-2 Installation to Screen

This IAG is intended to be used as the following:

- When the button for NXR- ILM Unit, which is displayed by the IAG *EtherNet_IP_Network Monitor* or *DLR_Monitor* located on the screen, is pressed, the currently displayed screen switches to the screen with this IAG and the IAG accesses to the Unit to receive the necessary information to display.
- Pressing the **Return** button placed in the page containing this IAG works as the trigger to back to the originally displayed screen.

Note: The simplest screen design, a single page is linked with a single destination page, is described in this section.

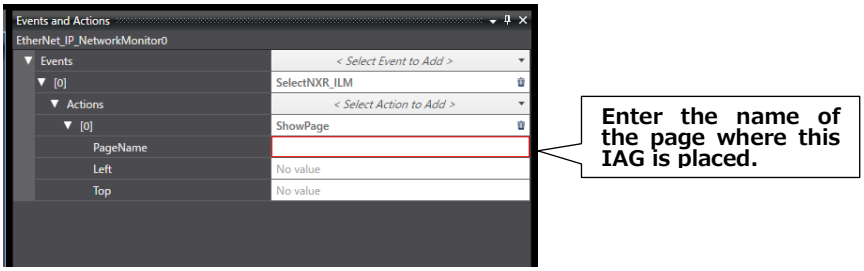


For this screen design, implement the settings described below.

● Events and Actions Settings for Previous Screen

Set the action *ShowPage* for the event *SelectILMMaster* of the IAGs, *EtherNet_IP_NetworkMonitor* and *DLR_Monitor*. Then enter the page name in which this IAG is placed.

| Event | Description |
|---|---|
| SelectILMMaster | Executed when the IO-Link master unit is selected. |




● IAG Property Assignment (Previous Screen)

Assign the same variable to the following properties (Input/Output) for EtherNet_IP_NetworkMonitor and DLR_Monitor.

| Property (Input/Output) | Description | Variable | Variable Data Type |
|---|---|---|---|
| SelectDeviceIPAddress | IP address of the device to be displayed | SelectDeviceAddress | String |
| CurrentPageName | Page name of this IAG | PreviousPageName | String |

● Property Assignment (IAG)

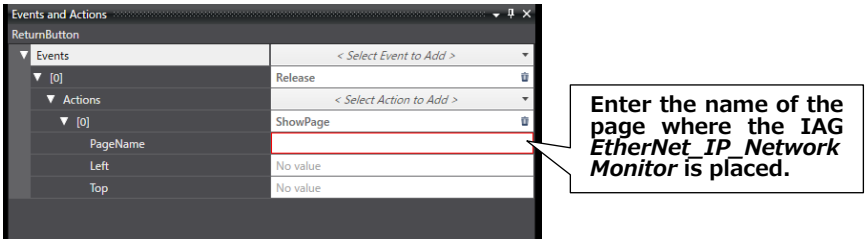
Assign the variables to the following properties.

| Property (Input/Output) | Description | Variable | Variable Data Type |
|---|---|---|---|
| SelectDeviceIPAddress | IP address of the device to be displayed | SelectDeviceAddress | String |
| PreviousPageName | Name of the page displayed after this page is closed | PreviousPageName | String |

Now the IP address information and the destination page are shared among screens.

● Screen Settings

Place the Return button on the page containing this IAG. Then set the action *ShowPage* for the button event *Release*. Next, enter the name of the previous page in which the IAG *EtherNet_IP_NetworkMonitor* is placed.



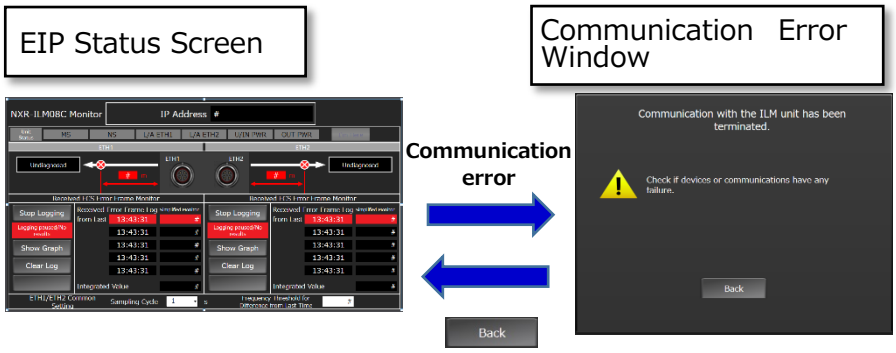

Additional Information

The type of button is not specified.

# 5-2 EIPStatus_Monitor

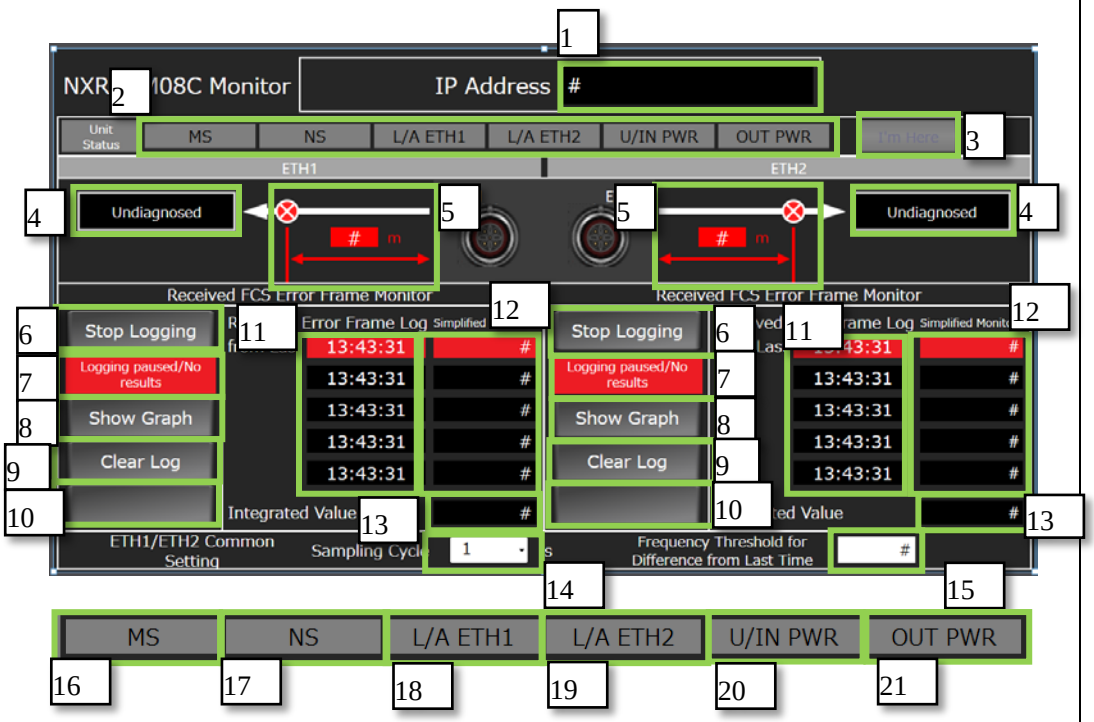
## 5-2-1 Specifications

● External Specifications

| | |
|---|---|
| **Object** | EIPStatus_Monitor |
| **Category** | NXR_ILM_Monitor |
| **Functions** | ・Reads and displays LED conditions of the IO-Link master unit whose IP address has been notified from EtherNet/IP Monitor.<br>・Reads and displays the device information on the IO-Link master unit NXR-ILM08C.<br>・Reads and displays the information on Ethernet port connection statuses.<br>・Displays logs of FCS errors and outputs to an output variable. |
| **Graphics** | This IAG consists of a screen and a pop-up.<br>  |

● Screen Specifications

| | |
|---|---|
| EIP Status Screen | · Reads and displays the device information on the IO-Link master unit NXR-ILM08C.<br>· Reads and displays the information on Ethernet port connection statuses.<br>· Displays logs of FCS errors and outputs to an output variable. |




| No. | Part | Description |
|---|---|---|
| 1 | DataDisplay | IP address of the selected device is displayed. |
| 2 | Group | Units' information is shown. Refer to No. 16 and later for details. |
| 3 | Button | The LED that indicates the location of the IO-Link master unit on the screen is lit when this button is pressed.<br>It is for expansion and not shown in the actual NA. |
| 4 | Button | Displays connection conditions of ETH1 and ETH2 by any of the following:<br>*Undiagnosed*, *Normally communicating*, *Short-circuited*, *Disconnected*, *Making a diagnosis*, *Failed to read*, or *Other error.*<br>Default: Undiagnosed |
| 5 | Group | If ETH1 and/or ETH2 is disconnected, indications that notify a disconnection and a distance to the disconnected point are shown. |
| 6 | Button | Pressing the Start Logging button begins logging FCS errors.<br>If the number of FCS errors per sampling cycle excesses to a threshold, results are stored to IO variables, *LogPort□FCSErrorCount* and *LogPort□FCSErrorTime*.<br>Pressing the Stop Logging button stops logging, but results are not stored. |
| 7 | Lamp | Displays the progress of logging by any of the following:<br>*Logging*, *Logging paused/Results found*, *Logging paused/No results*, or *Abnormal logging termination/No results* |
| 8 | Button | It is for expansion and not shown in the actual NA. |
| 9 | Button | Clears the value of the array variable in which logs are stored to zero. The integrated value of FCS errors also becomes zero. |
| 10 | Button | Save logging results to a file. It is for expansion and not shown in the actual NA. |

| | | |
|---|---|---|
| 11 | DateTime | Displays the logging times. |
| 12 | DataDisplay | Displays FCS error frequencies per sampling cycle. |
| 13 | DataDisplay | Displays integrated values of FCS errors. |
| 14 | DropDown | Select and display a sampling cycle for logging. Options: 1, 10, and 60 (s). Default is 1 s. |
| 15 | DataEdit | Displays a threshold to determine abnormal FCS error frequency. Range: 1 to 500 (frequency). Default is 10. |
| 16 | Lamp | Unit status is displayed. |
| 17 | Lamp | Network condition is displayed. |
| 18 | Lamp | Displays EtherNet1 port condition. |
| 19 | Lamp | Displays EtherNet2 port condition. |
| 20 | Lamp | Displays the condition of the input power supply voltage. |
| 21 | Lamp | Displays the condition of the output power supply voltage. |

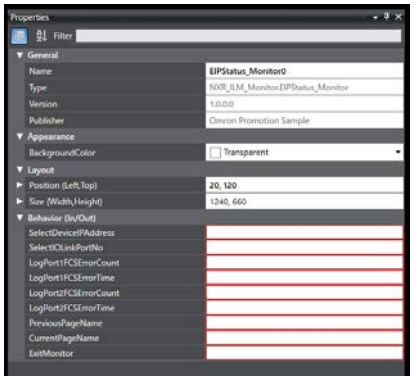
| | |
|---|---|
| Communication Error Window | This pop-up window notifies that communications between the NA and IO-Link master unit were failed. |
| |  |

| User I/F Specifications | | |
|---|---|---|
| No. | Part | Description |
| 1 | Button | Switches the window to the previously shown screen. |
| Layout | | |
| Properties | Default | Description |
| Position (Left, Up) | | Fixed |
| ▼Size (Width, Height) | | Fixed |

● Properties

| Property | Description | Input Mode | Input Range<br>Data Type | Default |
|---|---|---|---|---|
| General | | | | |
| Name | Object name. Must not be overlapped in a screen. | Direct input | Character string (1 to 127) | EIPStatus_Monitor0 |
| Type | Object type. Not changeable. | - | - | NXR_ILM_Monitor.<br>EIPStatus_Monitor |
| Version | IAG version | - | - | 1.0.0.0 |
| Publisher | IAG publisher | - | - | Omron Promotion Sample |
| Appearance | | | | |
| Background Color | Background color of a page | Item selection<br>Direct input | Color pallet<br>Character string | Transparent[1] |
| Layout | | | | |
| ▼Position (Left , Top) | Position setting of an object in a page.[2] | Direct input<br>Spin button | Numeric<br>Numeric | - |
| Left | Horizontal position (X-axis) of the top-left corner of an object on a page | Direct input<br>Spin button | Numeric<br>Numeric | - |
| Top | Vertical position (Y-axis) of the to-left corner of an object on a page | Direct input<br>Spin button | Numeric<br>Numeric | - |
| ▼Size (Width, Height) | Object size setting. | Direct input<br>Spin button | Numeric<br>Numeric | （1240,660） |
| Width | Width of object | Direct input<br>Spin button | Numeric<br>Numeric | 1240 |
| Height | Height of object | Direct input<br>Spin button | Numeric<br>Numeric | 660 |
| Input/Output | | | | |
| SelectDeviceIPAddress | IP address of the device to be displayed | Variable specification | String | |
| SelectIOLinkPortNo | Port number of the selected IO-Link unit | Variable specification | Byte | |
| LogPort1FCSErrorCount | FCS error frequency log in Port1 | Variable specification | UShort(49) | |
| LogPort1FCSErrorTime | Data on FCS error frequency logging time in Port1 | Variable specification | Date(49) | |
| LogPort2FCSErrorCount | FCS error frequency log in Port2 | Variable specification | UShort(49) | |
| LogPort2FCSErrorTime | Data on FCS error frequency logging time in Port2 | Variable specification | Date(49) | |
| PreviousPageName | Name of the page displayed after this page is closed | Variable specification | String | |
| CurrentPageName | Page name of this IAG | Variable specification | String | |
| ExitMonitor | Flag to close this page | Variable specification | Boolean | |

**Image**




1: Transparent
2: The origin of coordinates locates at the top left corner of NA screen.

Precautions for Correct Use

The use case in this guide does not require settings for IO variables *CurrentPageName* and *ExitMonitor*. Leave them blank; if not, the IAG may perform an unintended operation.

● Version History

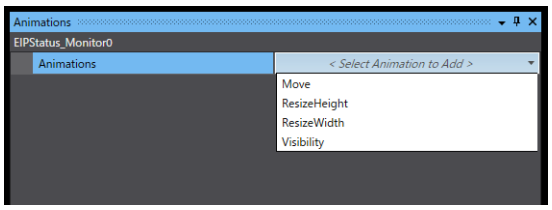
| IAG version | Description | IAG collection version |
|---|---|---|
| 1.0.0.0 | First edition | Ver1.00 |

● Events & Actions

No event function available.

● Animations

Basic motions can be defined.




● Security

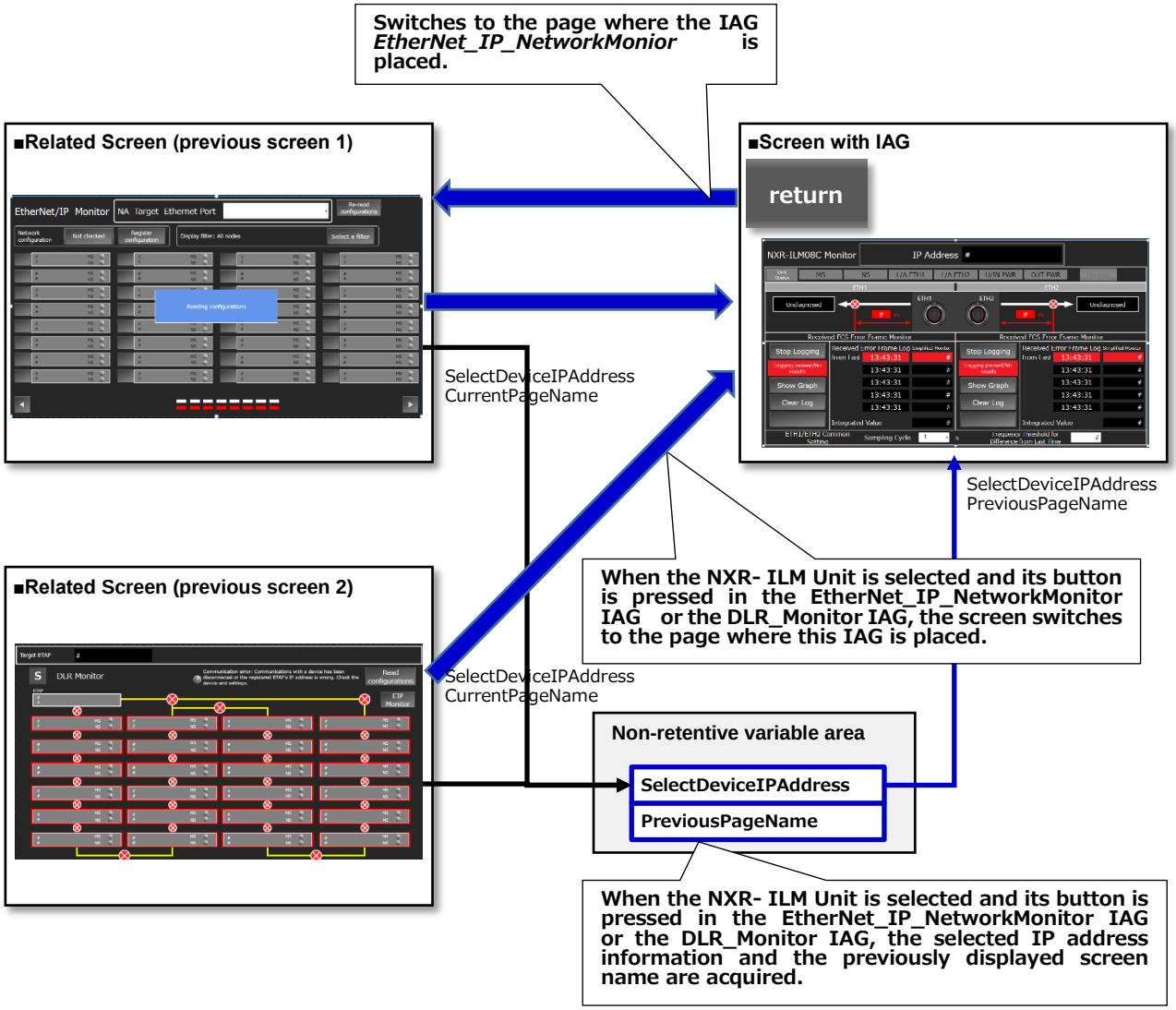
No security function available.

## 5-2-2 Installation to Screen

This IAG is intended to be used as the following:

- When the button for NXR- ILM Unit, which is displayed by the IAG *EtherNet_IP_Network Monitor* or *DLR_Monitor* located on the screen, is pressed, the currently displayed screen switches to the screen with this IAG and the IAG accesses to the Unit to receive the necessary information to display.
- Pressing the **Return** button placed in the page containing this IAG works as the trigger to back to the originally displayed screen.

Note: The simplest screen design, a single page is linked with a single destination page, is described in this section.

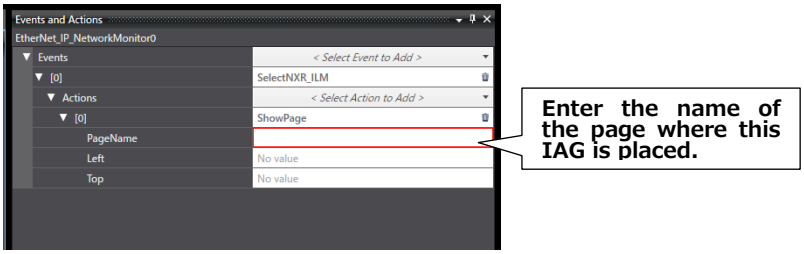


For this screen design, implement the settings described below.

● Events and Actions Settings for Previous Screen

Set the action *ShowPage* for the event *SelectILMMaster* of the IAGs, *EtherNet_IP_NetworkMonitor* and *DLR_Monitor*. Then enter the page name in which this IAG is placed.

| Event | Description |
|---|---|
| SelectILMMaster | Executed when the IO-Link master unit is selected. |




● IAG Property Assignment (Previous Screen)

Assign the following properties (Input/Output) for the EtherNet_IP_NetworkMonitor IAG to the same variable.

| Property (Input/Output) | Description | Variable | Variable Data Type |
|---|---|---|---|
| SelectDeviceIPAddress | IP address of the device to be displayed | SelectDeviceAddress | String |
| CurrentPageName | Page name of this IAG | PreviousPageName | String |

● Property Assignment

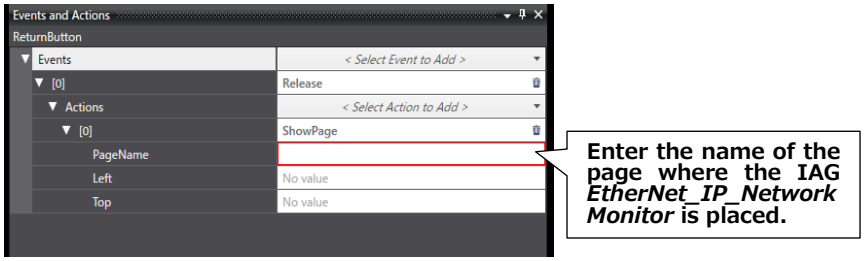
Assign the variables to the following properties.

| Property (Input/Output) | Description | Variable | Variable Data Type |
|---|---|---|---|
| SelectDeviceIPAddress | IP address of the device to be displayed | SelectDeviceAddress | String |
| PreviousPageName | Name of the page displayed after this page is closed | PreviousPageName | String |

Now the IP address information and the destination page are shared among screens.

● Screen Settings

Place the Return button on the page containing this IAG. Then set the action *ShowPage* for the button event *Release*. Next, enter the name of the previous page in which the IAG *EtherNet_IP_NetworkMonitor* is placed.



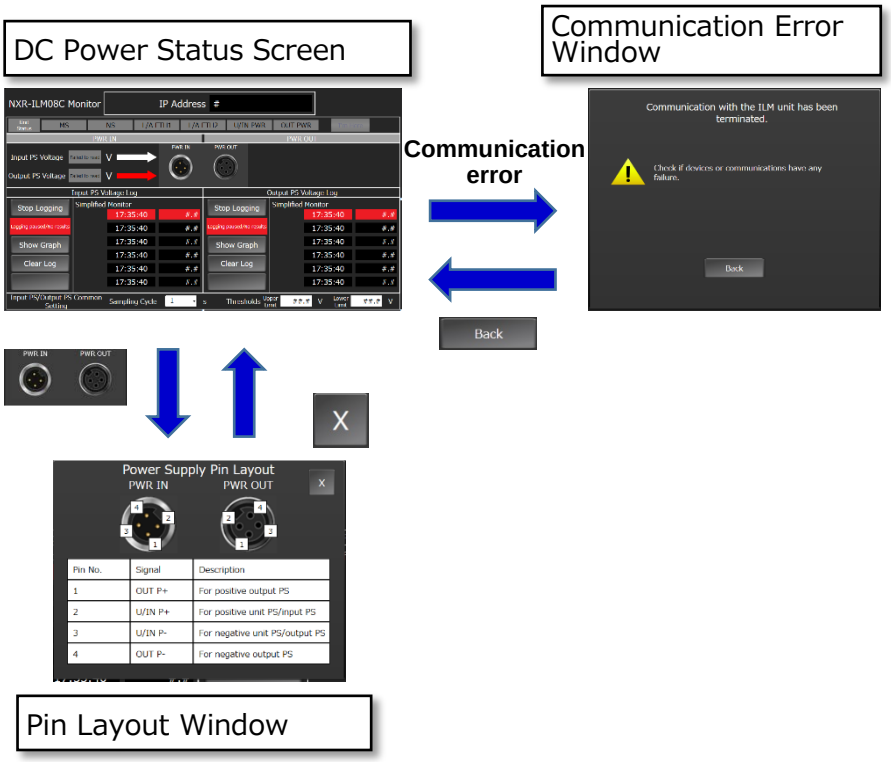

Additional Information

The type of button is not specified.

# 5-3 DCVoltage_Monitor

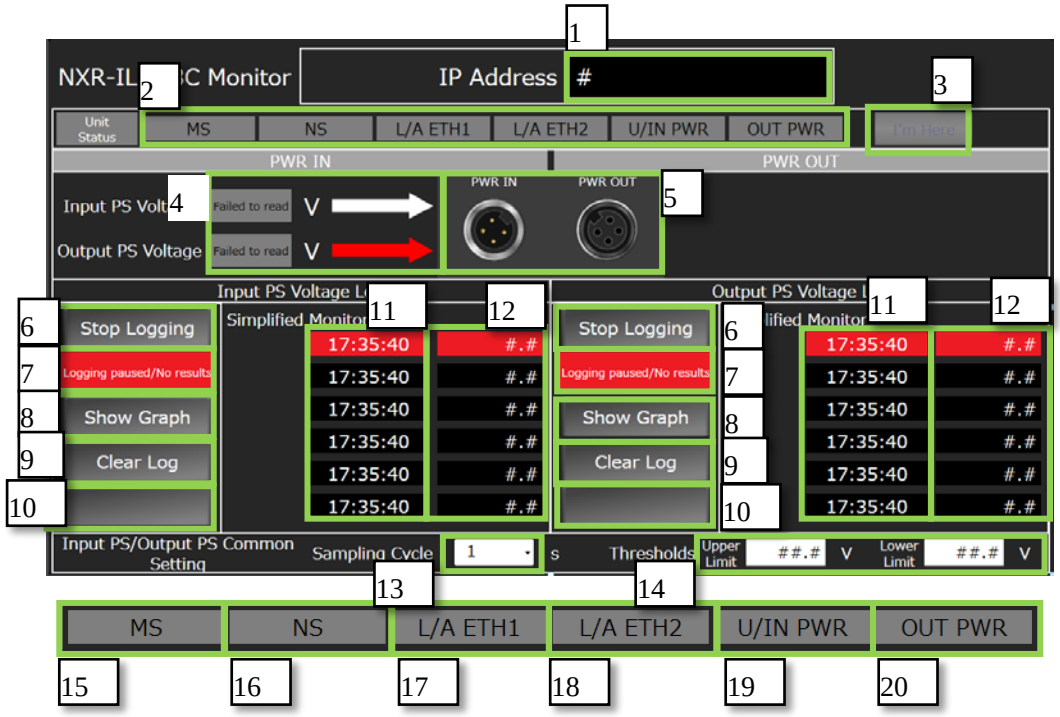
## 5-3-1 Specifications

● External Specifications

| | |
|---|---|
| **Object** | DCVoltage_Monitor |
| **Category** | NXR_ILM_Monitor |
| **Functions** | ・Reads and displays LED conditions of the IO-Link master unit whose IP address has been notified from EtherNet/IP Monitor.<br>・Displays input/output power supply voltage logs of the IO-Link master unit. |
| **Graphics** | This IAG consists of one screen and two pop-ups.<br>  |

● Screen Specifications

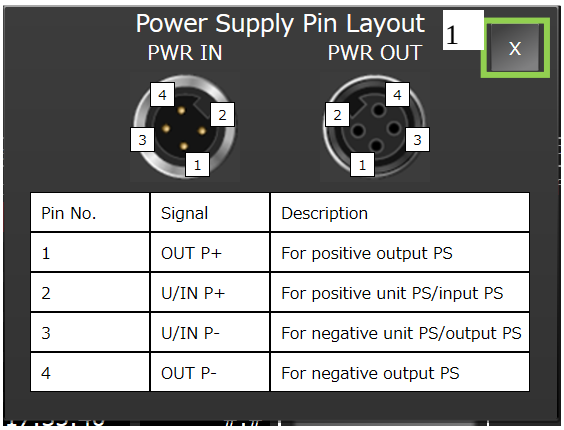
| | |
|---|---|
| DC Power Status Screen | Displays input/output power supply voltage of the IO-Link master unit.<br>Logs input/output power supply voltage per sampling cycle |




| No. | Part | Description |
|---|---|---|
| 1 | DataDisplay | IP address of the selected device is displayed. |
| 2 | Group | Units' information is shown. Refer to No. 15 and later for details. |
| 3 | Button | The LED that indicates the location of the IO-Link master unit on the screen is lit when this button is pressed.<br>It is for expansion and not shown in the actual NA. |
| 4 | Group | Displays current input/output power supply voltage. When power voltage excesses to the upper or lower limit of thresholds, DataDisplay and the arrow turn red. |
| 5 | Image | Pressing the pin graphic displays the Pin Layout window. |
| 6 | Button | Pressing the Start Logging button begins logging power voltage.<br>When power voltage excesses to the upper or lower limit of thresholds, results are stored to IO variables, *Log□PowerVoltage* and *Log□PowerVoltageTime*.<br>Pressing the Stop Logging button stops logging, but results are not stored. |
| 7 | Lamp | Displays the progress of logging by any of the following:<br>*Logging*, *Logging paused/Results found*, *Logging paused/No results*, or *Abnormal logging termination/No results* |
| 8 | Button | It is for expansion and not shown in the actual NA. |
| 9 | Button | Clears the value of the array variable in which logs are stored to zero. |
| 10 | Button | Save logging results to a file. It is for expansion and not shown in the actual NA. |
| 11 | DateTime | Displays the logging times. |
| 12 | DataDisplay | Displays power voltage per sampling cycle. |
| 13 | DropDown | Select and display a sampling cycle for logging. Options: 1, 10, and 60 (s).<br>Default is 1 s. |

| | | |
|---|---|---|
| 14 | DataEdit | Displays upper and lower voltage limits.<br>Default upper limit: 26.4 VDC, Default lower limit : 20.4 VDC (Rated voltage range)<br>Note: Upper and lower limits must be set within the rated voltages |
| 15 | Lamp | Unit status is displayed. |
| 16 | Lamp | Network condition is displayed. |
| 17 | Lamp | Displays EtherNet1 port condition. |
| 18 | Lamp | Displays EtherNet2 port condition. |
| 19 | Lamp | Displays the condition of the input power supply voltage. |
| 20 | Lamp | Displays the condition of the output power supply voltage. |

| | |
|---|---|
| Pin Layout Window | · Displays the input/output power supply pin layout of the IO-Link master unit. |




| Pin No. | Signal | Description |
|---|---|---|
| 1 | OUT P+ | For positive output PS |
| 2 | U/IN P+ | For positive unit PS/input PS |
| 3 | U/IN P- | For negative unit PS/output PS |
| 4 | OUT P- | For negative output PS |

| No. | Part | Description |
|---|---|---|
| 1 | Button | Closes this window. |

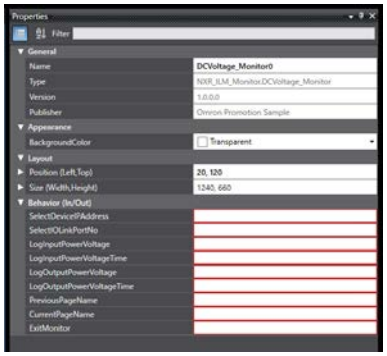
| | |
|---|---|
| Communication Error Window | This pop-up window notifies that communications between the NA and IO-Link master unit were failed. |
| |  |

| User I/F Specifications | | |
|---|---|---|
| No. | Part | Description |
| 1 | Button | Switches the window to the previously shown screen. |
| Layout | | |
| Properties | Default | Description |
| Position (Left, Up) | | Fixed |
| ▼Size (Width, Height) | | Fixed |

● Properties

| Property | Description | Input Mode | Input Range<br>Data Type | Default |
|---|---|---|---|---|
| General | | | | |
| Name | Object name. Must not be overlapped in a screen. | Direct input | Character string (1 to 127) | DCVoltage_Monitor0 |
| Type | Object type. Not changeable. | - | - | NXR_ILM_Monitor.<br>DCVoltage_Monitor |
| Version | IAG version | - | - | 1.0.0.0 |
| Publisher | IAG publisher | - | - | Omron Promotion Sample |
| Appearance | | | | |
| Background Color | Background color of a page | Item selection<br>Direct input | Color pallet<br>Character string | Transparent[1] |
| Layout | | | | |
| ▼Position (Left , Top) | Position setting of an object in a page.[2] | Direct input<br>Spin button | Numeric<br>Numeric | - |
| Left | Horizontal position (X-axis) of the top-left corner of an object on a page | Direct input<br>Spin button | Numeric<br>Numeric | - |
| Top | Vertical position (Y-axis) of the to-left corner of an object on a page | Direct input<br>Spin button | Numeric<br>Numeric | - |
| ▼Size (Width, Height) | Object size setting. | Direct input<br>Spin button | Numeric<br>Numeric | （1240,660） |
| Width | Width of object | Direct input<br>Spin button | Numeric<br>Numeric | 1240 |
| Height | Height of object | Direct input<br>Spin button | Numeric<br>Numeric | 660 |
| Input/Output | | | | |
| SelectDeviceIPAddress | IP address of the device to be displayed | Variable specification | String | |
| SelectIOLinkPortNo | Port number of the selected IO-Link unit | Variable specification | Byte | |
| LogInputPowerVoltage | Input voltage log | Variable specification | UShort(49) | |
| LogInputPowerVoltageTime | Data on input voltage log Time | Variable specification | Date(49) | |
| LogOutputPowerVoltage | Output voltage log | Variable specification | UShort(49) | |
| LogOutputPowerVoltageTime | Data on output voltage log Time | Variable specification | Date(49) | |
| PreviousPageName | Name of the page displayed after this page is closed | Variable specification | String | |
| CurrentPageName | Page name of this IAG | Variable specification | String | |
| ExitMonitor | Flag to close this page | Variable specification | Boolean | |

**Image**




1: Transparent
2: The origin of coordinates locates at the top left corner of NA screen.

Precautions for Correct Use

The use case in this guide does not require settings for IO variables *CurrentPageName* and *ExitMonitor*. Leave them blank; if not, the IAG may perform an unintended operation.

● Version History

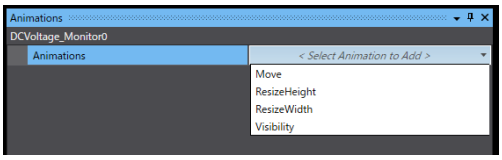
| IAG version | Description | IAG collection version |
|---|---|---|
| 1.0.0.0 | First edition | Ver1.00 |

● Events & Actions

No event function available.

● Animations

Basic motions can be defined.




● Security

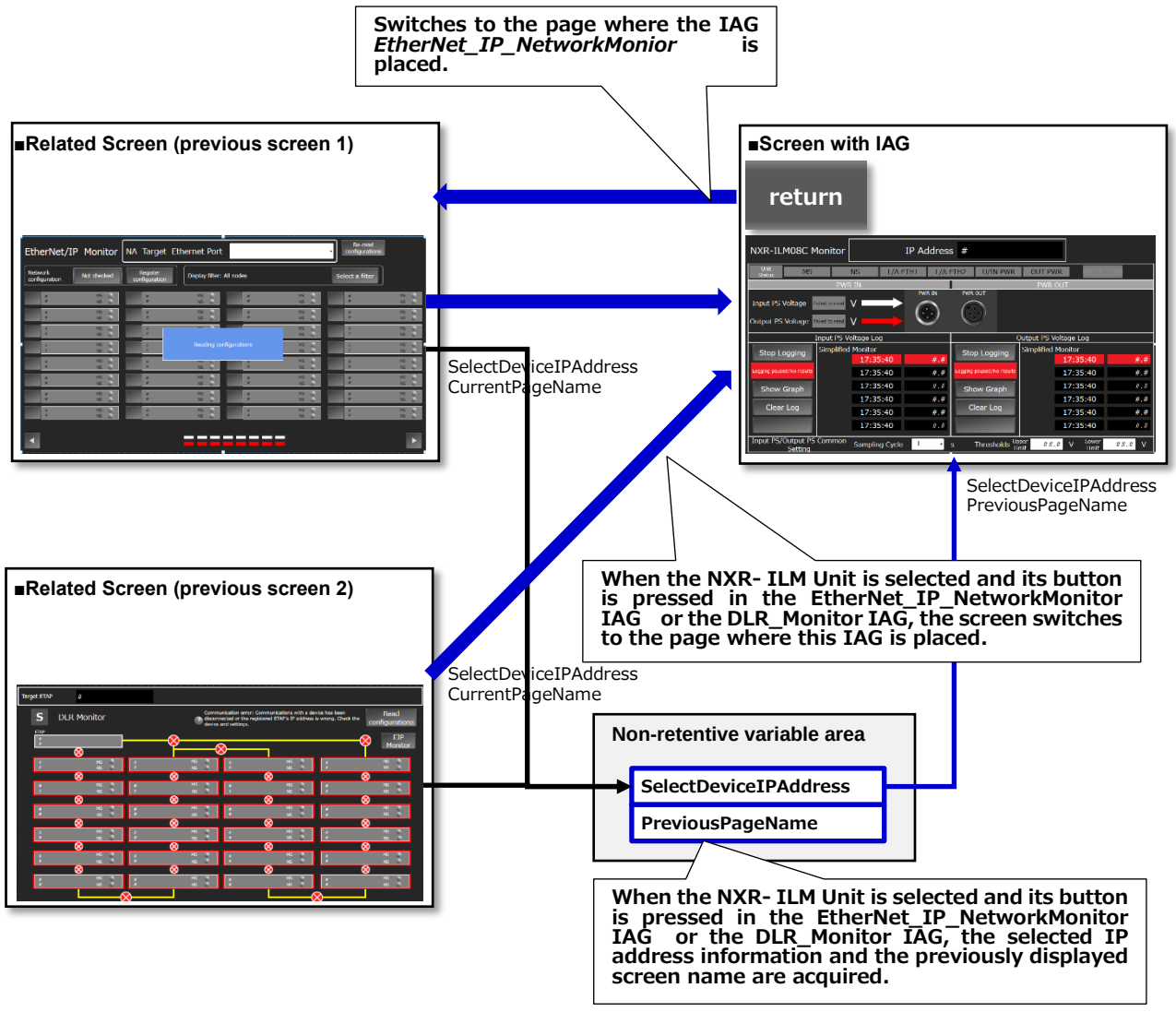
No security function available.

## 5-3-2 Installation to Screen

This IAG is intended to be used as the following:

- When the button for NXR- ILM Unit, which is displayed by the IAG *EtherNet_IP_Network Monitor* or *DLR_Monitor* located on the screen, is pressed, the currently displayed screen switches to the screen with this IAG and the IAG accesses to the Unit to receive the necessary information to display.
- Pressing the **Return** button placed in the page containing this IAG works as the trigger to back to the previously displayed screen.
- 

Note: The simplest screen design, a single page is linked with a single destination page, is described in this section.

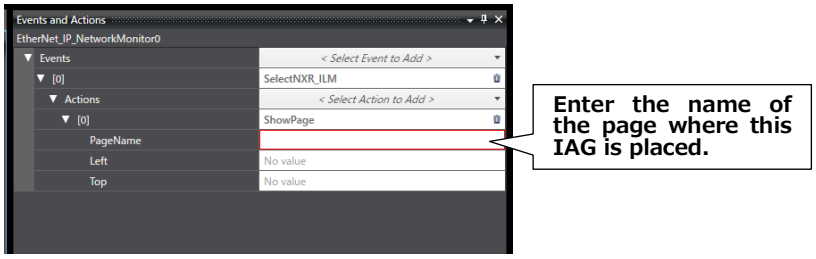


For this screen design, implement the settings described below.

● Events and Actions Settings for Previous Screen

Set the action *ShowPage* for the event *SelectILMMaster* of the IAGs, *EtherNet_IP_NetworkMonitor* and *DLR_Monitor*. Then enter the page name in which this IAG is placed.

| Event | Description |
|---|---|
| SelectILMMaster | Executed when the IO-Link master unit is selected. |




● IAG Property Assignment (Previous Screen)

Assign the same variables to the following properties (Input/Output) for the EtherNet_IP_NetworkMonitor IAG.

| Property (Input/Output) | Description | Variable | Variable Data Type |
|---|---|---|---|
| SelectDeviceIPAddress | IP address of the device to be displayed | SelectDeviceAddress | String |
| CurrentPageName | Page name of this IAG | PreviousPageName | String |

● Property Assignment

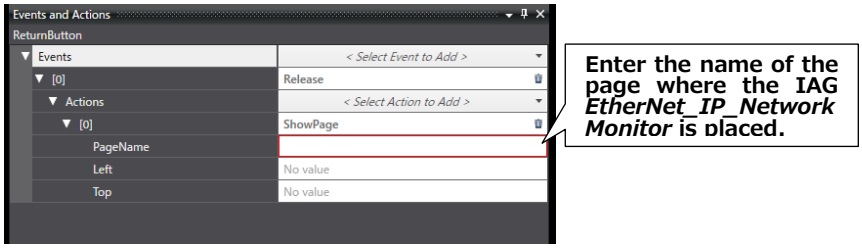
Assign the variables to the following properties.

| Property (Input/Output) | Description | Variable | Variable Data Type |
|---|---|---|---|
| SelectDeviceIPAddress | IP address of the device to be displayed | SelectDeviceAddress | String |
| PreviousPageName | Name of the page displayed after this page is closed | PreviousPageName | String |

Now the IP address information and the destination page are shared among screens.

● Screen Settings

Place the Return button on the page containing this IAG. Then set the action *ShowPage* for the button event *Release*. Next, enter the name of the previous page in which the IAG *EtherNet_IP_NetworkMonitor* is placed.



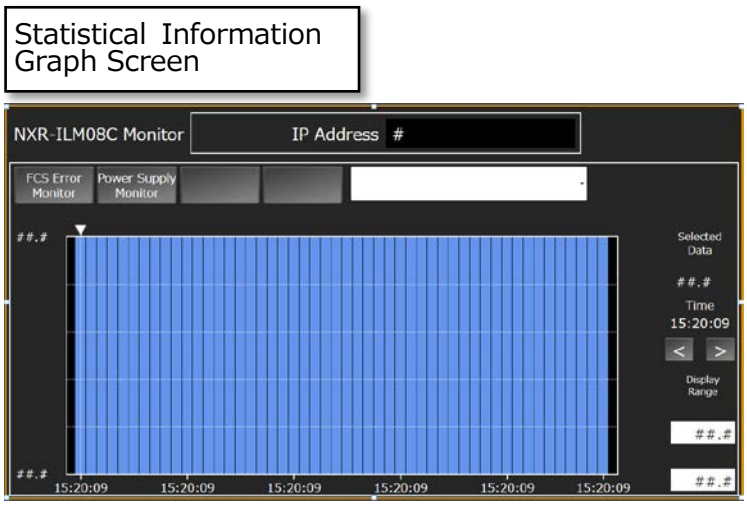

Additional Information

The type of button is not specified.

# 5-4 MultiStatication_Viewer

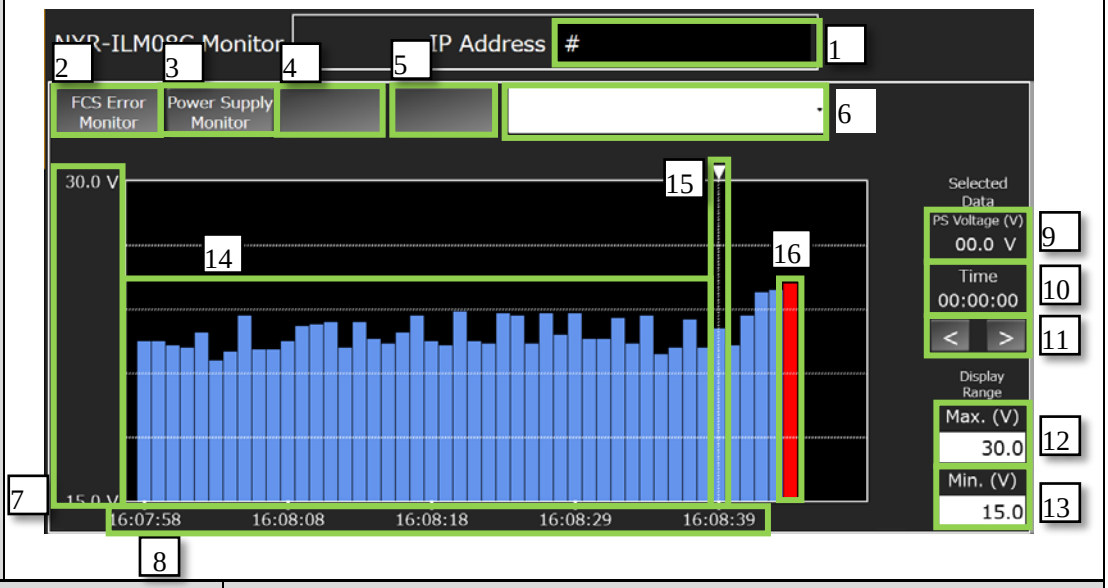
## 5-4-1 Specifications

● External Specifications

| | |
|---|---|
| **Object** | MultiStatication_Viewer |
| **Category** | NXR_ILM_Monitor |
| **Functions** | ・Displays logs acquired in other screens for the NXR-ILM08C IO-Link master unit in a graph.<br>・Displays logs of FCS error frequency in a graph.<br>・Displays logs of input/output power supply voltage in a graph. |
| **Graphics** | This IAG consists of one screen.<br>  |

● Screen Specifications

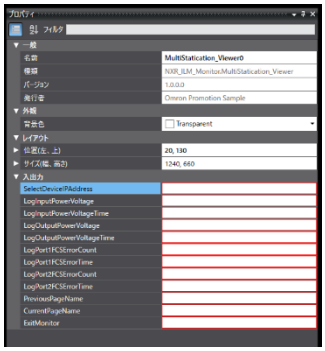
| | |
|---|---|
| Statistical Information Graph Screen | Displays logs acquired in other screens in a graph. |




| No. | Part | Description |
|---|---|---|
| 1 | DataDisplay | Selected ILM Unit's IP address is displayed. |
| 2 | Button | Displays logs acquired in the EIP Status Screen. |
| 3 | Button | Displays logs acquired in the DC Power Status Screen. |
| 4 | Button | It is for expansion and not shown in the actual NA. |
| 5 | Button | It is for expansion and not shown in the actual NA. |
| 6 | DropDown | Select log to be displayed: e.g. EIP port |
| 7 | DataDisplay | Y axis |
| 8 | DateTime | X axis |
| 9 | DataDisplay | Y value of the data currently pointed by the cursor. |
| 10 | DateTime | X value of the data currently pointed by the cursor. |
| 11 | Group | Moves the cursor on the graph right or left. |
| 12 | DataDisplay | Set the maximum value of the Y axis. |
| 13 | DataDisplay | Set the minimum value of the Y axis. |
| 14 | RectAngle | Displays logged values in bars. |
| 15 | Group | Point the selected data by the cursor. |
| 16 | RectAngle | The latest data of the log is displayed in red. |

● Properties

| Property | Description | Input Mode | Input Range Data Type | Default |
|---|---|---|---|---|
| General | | | | |
| Name | Object name. Must not be overlapped in a screen. | Direct input | Character string (1 to 127) | MultiStatication_Viewer 0 |
| Type | Object type. Not changeable. | - | - | NXR_ILM_Monitor. MultiStatication_Viewer |
| Version | IAG version | - | - | 1.0.0.0 |
| Publisher | IAG publisher | - | - | Omron Promotion Sample |
| Appearance | | | | |
| Background Color | Background color of a page | Item selection Direct input | Color pallet Character string | Transparent[1] |
| Layout | | | | |
| ▼Position (Left , Top) | Position setting of an object in a page.[2] | Direct input Spin button | Numeric Numeric | - |
| Left | Horizontal position (X-axis) of the top-left corner of an object on a page | Direct input Spin button | Numeric Numeric | - |
| Top | Vertical position (Y-axis) of the to-left corner of an object on a page | Direct input Spin button | Numeric Numeric | - |
| ▼Size (Width, Height) | Object size setting. | Direct input Spin button | Numeric Numeric | （1240,660） |
| Width | Width of object | Direct input Spin button | Numeric Numeric | 1240 |
| Height | Height of object | Direct input Spin button | Numeric Numeric | 660 |
| Input/Output | | | | |
| SelectDeviceIPAddress | IP address of the device to be displayed | Variable specification | String | |
| LogPort1FCSErrorCount | Variable to log the FCS error frequency | Variable specification | UShort(49) | |
| LogPort1FCSErrorTime | Variable to log the FCS error frequency | Variable specification | Date(49) | |
| LogPort2FCSErrorCount | Variable to log the FCS error frequency | Variable specification | UShort(49) | |
| LogPort2FCSErrorTime | Variable to log the FCS error frequency | Variable specification | Date(49) | |
| LogInputPowerVoltage | Variable to log the input voltage | Variable specification | UShort(49) | |
| LogInputPowerVoltageTime | Variable to log the input voltage | Variable specification | Date(49) | |
| LogOutputPowerVoltage | Variable to log the output voltage | Variable specification | UShort(49) | |
| LogOutputPowerVoltageTime | Variable to log the output voltage | Variable specification | Date(49) | |
| PreviousPageName | Page display history | Variable specification | String | |
| CurrentPageName | Page name of this IAG | Variable specification | String | |
| ExitMonitor | The flag to exit the currently displayed monitor | Variable specification | Boolean | |
| **Image** | | | | |




1: Transparent
2: The origin of coordinates locates at the top left corner of NA screen.

### Precautions for Correct Use

The use case in this guide does not require settings for IO variables *PreviousPageName*, *CurrentPageName* and *ExitMonitor*. Leave them blank; if not, the IAG may perform an unintended operation.

- Version History

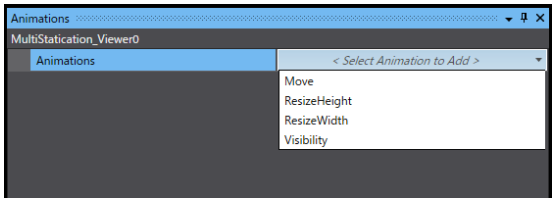
| IAG version | Description | IAG collection version |
|---|---|---|
| 1.0.0.0 | First edition | Ver1.00 |

- Events & Actions

No event function available.

- Animations

Basic motions can be defined.



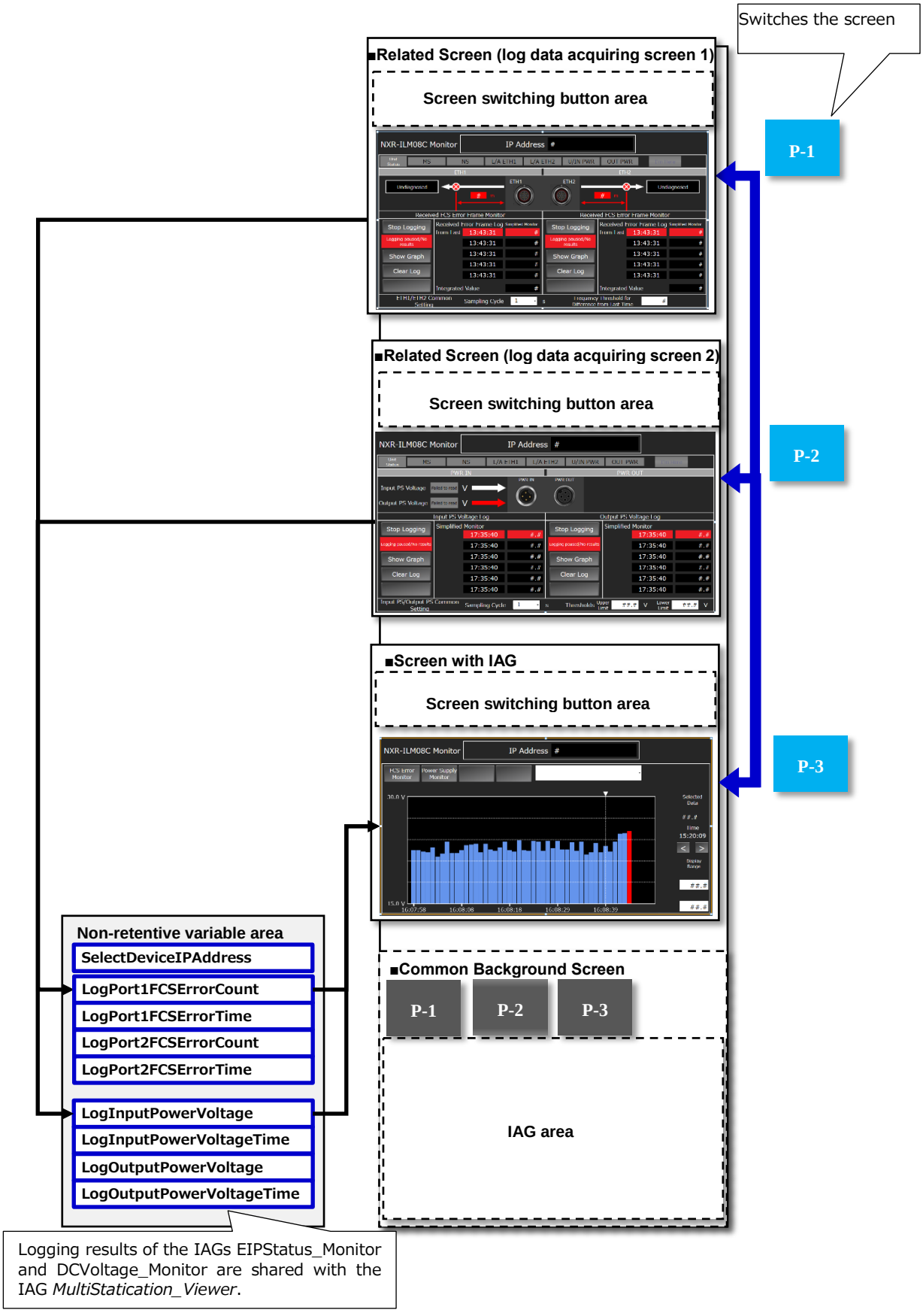

- Security

No security function available.

## 5-4-2 Installation to Screen

This IAG is intended to be used as the following:

- Loading logs acquired in other screens through variables: FCS error frequency logs of the IAG EIPStatus_Monitor and DC voltage logs of the IAG DCVoltage_Monitor.
- Creating a common background screen shared with the screen where log data is acquired and the screen where this IAG is placed. Placing a screen switching button.
- Displaying a screen contains this IAG with the screen switching button after logging in other screen, and selecting the log that you want to check to display the data in a graph.


Switches the screen
■Related Screen (log data acquiring screen 1)
Screen switching button area
P-1
■Related Screen (log data acquiring screen 2)
Screen switching button area
P-2
■Screen with IAG
Screen switching button area
P-3
■Common Background Screen
P-1
P-2
P-3
IAG area
Non-retentive variable area
SelectDeviceIPAddress
LogPort1FCSErrorCount
LogPort1FCSErrorTime
LogPort2FCSErrorCount
LogPort2FCSErrorTime
LogInputPowerVoltage
LogInputPowerVoltageTime
LogOutputPowerVoltage
LogOutputPowerVoltageTime
Logging results of the IAGs EIPStatus_Monitor and DCVoltage_Monitor are shared with the IAG *MultiStatication_Viewer*.

To use this functionality, implement the settings described below.

- IAG Property Assignment (Log Data Acquiring Screen)

Assign the variables to the following properties (Input/Output) for EIPStatus_Monitor.

| Property (Input/Output) | Description | Variable | Variable Data Type |
|---|---|---|---|
| SelectDeviceIPAddress | IP address of the connected unit | SelectDeviceIPAddress | String |
| LogPort1FCSErrorCount | Variable to log the FCS error frequency | LogPort1FCSErrorCount | UShort(49) |
| LogPort1FCSErrorTime | Variable to log the FCS error frequency | LogPort1FCSErrorTime | Date(49) |
| LogPort2FCSErrorCount | Variable to log the FCS error frequency | LogPort2FCSErrorCount | UShort(49) |
| LogPort2FCSErrorTime | Variable to log the FCS error frequency | LogPort2FCSErrorTime | Date(49) |

Assign the variables to the following properties (Input/Output) for DCVoltage_Monitor.

| Property (Input/Output) | Description | Variable | Variable Data Type |
|---|---|---|---|
| SelectDeviceIPAddress | IP address of the connected unit | SelectDeviceIPAddress | String |
| LogInputPowerVoltage | Variable to log the input voltage | LogInputPowerVoltage | UShort(49) |
| LogInputPowerVoltageTime | Variable to log the input voltage | LogInputPowerVoltageTime | Date(49) |
| LogOutputPowerVoltage | Variable to log the output voltage | LogOutputPowerVoltage | UShort(49) |
| LogOutputPowerVoltageTime | Variable to log the output voltage | LogOutputPowerVoltageTime | Date(49) |

- Property Assignment (IAG)

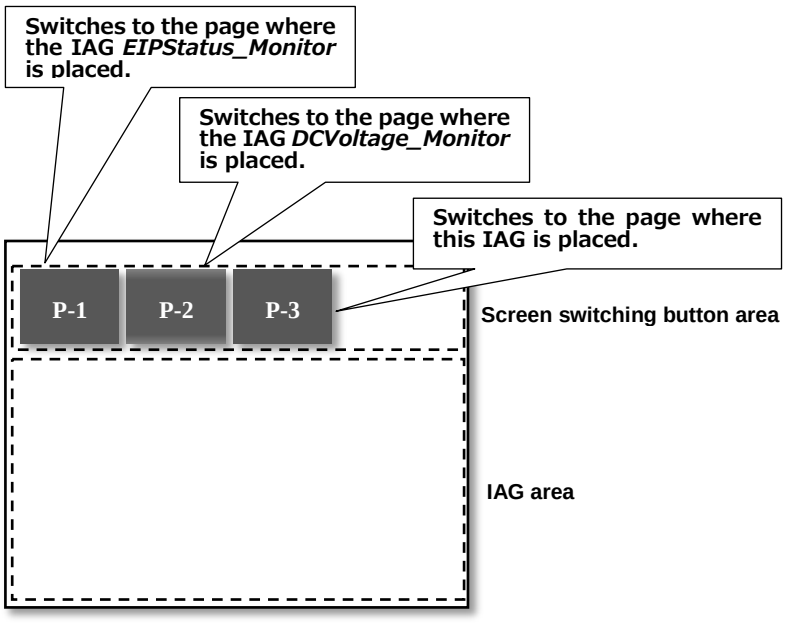
Assign the following properties to variables.

| Property (Input/Output) | Description | Variable | Variable Data Type |
|---|---|---|---|
| SelectDeviceIPAddress | IP address of the connected unit | SelectDeviceIPAddress | String |
| LogPort1FCSErrorCount | Variable to log the FCS error frequency | LogPort1FCSErrorCount | UShort(49) |
| LogPort1FCSErrorTime | Variable to log the FCS error frequency | LogPort1FCSErrorTime | Date(49) |
| LogPort2FCSErrorCount | Variable to log the FCS error frequency | LogPort2FCSErrorCount | UShort(49) |
| LogPort2FCSErrorTime | Variable to log the FCS error frequency | LogPort2FCSErrorTime | Date(49) |
| LogInputPowerVoltage | Variable to log the input voltage | LogInputPowerVoltage | UShort(49) |
| LogInputPowerVoltageTime | Variable to log the input voltage | LogInputPowerVoltageTime | Date(49) |
| LogOutputPowerVoltage | Variable to log the output voltage | LogOutputPowerVoltage | UShort(49) |
| LogOutputPowerVoltageTime | Variable to log the output voltage | LogOutputPowerVoltageTime | Date(49) |

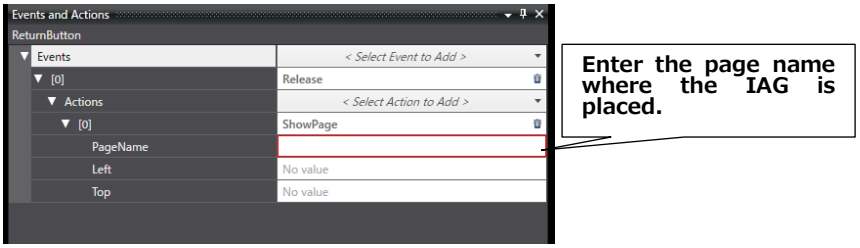
Now the data is shared with the IAGs which log the data and this IAG.

● Common Background Screen Setting

Place screen switching buttons on the Common Background Screen. Set the action *ShowPage* to the button event *Release*, and then, enter the page name.




**Events and Actions** for screen switching button




Additional Information

The type of button is not specified.

## 5-5 Displaying Multiple IAG Screens and Linking Them to EIP Monitor Screen

Combination of this IAG collection and the IAG EtherNet_IP_NetworkMonitor or DLR_Monitor enables the EIP Monitor Screen in other page to display various information about the NXR-ILM Unit.

This section provides how to perform the following processing.

- When the button for NXR- ILM Unit with any node address, which is displayed by the IAG *EtherNet_IP_Network Monitor* or *DLR_Monitor* located on another screen, is pressed, the currently displayed screen switches to *IO Status Monitor*, the initial screen of this IAG collection and accesses to the Unit to get information to display.
- Pressing either of the screen switching buttons on the EIP Status Screen or DC Power Status Screen switches the screen, and the information is acquired and displayed by accessing to the Unit.
- In the case that the EIP Status Screen or DC Power Status Screen acquires the FCS error frequency log or DC voltage log respectively, pressing the screen switching button on the Statistical Information Screen switches the currently displayed screen. Then allows the NA to access to the Unit to collect the data to display.
- When you press the Return button in this IAG, the screen switches to the previous screen where the IAG *EtherNet_IP_NetworkMonitor* is placed.

Additional Information

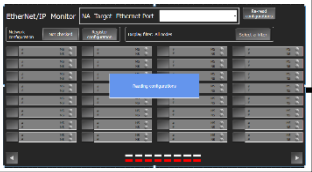
As an example, the initial page for the IO-Link master unit is the screen with the IAG IOStatus_Monitor. Any screen can be designated as the initial page.

When the NXR- ILM Unit is selected and its button is pressed in the EtherNet_IP_NetworkMonitor IAG or the DLR_Monitor IAG, the screen switches to the page where the IAG *IOStatus_Monitor* is placed.

When you press the Return button, the currently displayed screen switches to the page where the IAG *EtherNet_IP_NetworkMonitor* is placed.

The screen switches to each page when a screen switching button is pressed.

■Related Screen (previous screen 1)



■Related Screen (previous screen 2)

■Screen with IAG

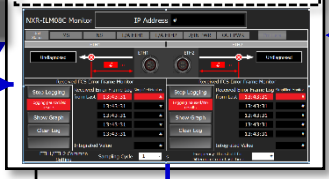
Screen switching

Return

P1

■Screen with IAG

Screen switching

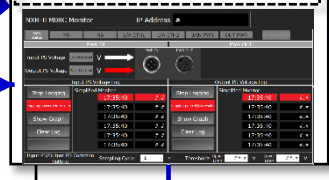


Return

P2

■Screen with IAG

Screen switching

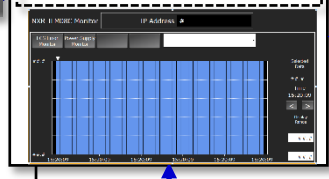


return

P3

■Screen with IAG

Screen switching



Return

P4

Pressing the Return button allows to share the IP address information with the previous screen and the destination screen.

Non-retentive variable area

SelectDeviceIPAddress

PreviousPageName

LogPort1FCSErrorCount

LogPort1FCSErrorTime

LogPort2FCSErrorCount

LogPort2FCSErrorTime

LogInputPowerVoltage

LogInputPowerVoltageTime

LogOutputPowerVoltage

LogOutputPowerVoltageTime

Screen switching button

■Common Background

Return P1 P2 P3 P4

IAG area

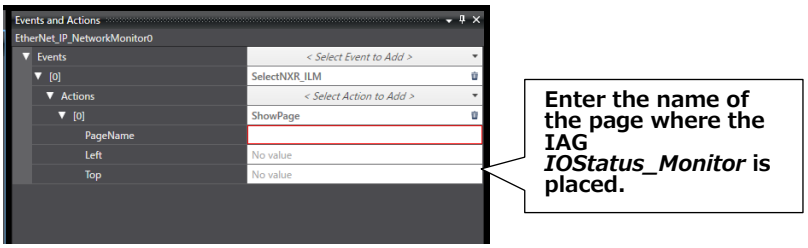
Logging results of the IAGs EIPStatus_Monitor and DCVoltage_Monitor are shared with the IAG *MultiStatication_Viewer*.

To use these functionalities, implement the settings described below.

● Events and Actions Settings for Previous Screen

Set the action *ShowPage* to the events for both *EtherNet_IP_NetworkMonitor* and *DLR_Monitor*. Then enter the page name in which the IAG *IOStatus_Monitor* is placed.

| Event | Description |
|---|---|
| SelectILMMaster | Executed when the IO-Link master unit is selected. |




● IAG Property Assignment (Previous Screen)

Assign the following variables to the properties (Input/Output) for EtherNet_IP_NetworkMonitor and DLR_Monitor.

| Property (Input/Output) | Description | Variable | Data Type |
|---|---|---|---|
| SelectDeviceIPAddress | IP address of the device to be displayed | SelectDeviceIPAddress | String |
| CurrentPageName | Page name of this IAG | PreviousPageName | String |

● IAG (IOStatus_Monitor) Property Assignment (Destination Screen)

Assign the following variables to the properties (Input/Output).

| Property (Input/Output) | Description | Variable | Data Type |
|---|---|---|---|
| SelectDeviceIPAddress | IP address of the device to be displayed | SelectDeviceIPAddress | String |
| PreviousPageName | Name of the page displayed after this page is closed | PreviousPageName | String |

● IAG (EIPStatus_Monitor) Property Assignment (Destination Screen)

Assign the variables to the following properties (Input/Output).

| Property (Input/Output) | Description | Variable | Data Type |
|---|---|---|---|
| SelectDeviceIPAddress | IP address of the device to be displayed | SelectDeviceIPAddress | String |
| PreviousPageName | Name of the page displayed after this page is closed | PreviousPageName | String |
| LogPort1FCSErrorCount | Variable to log the FCS error frequency | LogPort1FCSErrorCount | UShort(49) |
| LogPort1FCSErrorTime | Variable to log the FCS error frequency | LogPort1FCSErrorTime | Date(49) |
| LogPort2FCSErrorCount | Variable to log the FCS error frequency | LogPort2FCSErrorCount | UShort(49) |
| LogPort2FCSErrorTime | Variable to log the FCS error frequency | LogPort2FCSErrorTime | Date(49) |

● IAG (DCVoltage_Monitor) Property Assignment (Destination Screen)

Assign the variables to the following properties (Input/Output).

| Property (Input/Output) | Description | Variable | Data Type |
|---|---|---|---|
| SelectDeviceIPAddress | IP address of the device to be displayed | SelectDeviceIPAddress | String |
| PreviousPageName | Name of the page displayed after this page is closed | PreviousPageName | String |
| LogInputPowerVoltage | Variable to log the input voltage | LogInputPowerVoltage | UShort(49) |
| LogInputPowerVoltageTime | Variable to log the input voltage | LogInputPowerVoltageTime | Date(49) |
| LogOutputPowerVoltage | Variable to log the output voltage | LogOutputPowerVoltage | UShort(49) |
| LogOutputPowerVoltageTime | Variable to log the output voltage | LogOutputPowerVoltageTime | Date(49) |

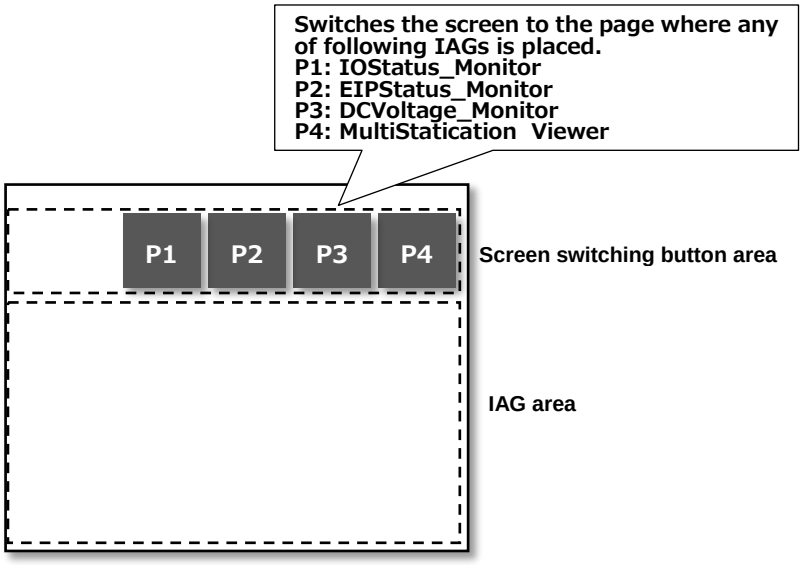
● IAG Property Assignment (Statistical Information Graph)

Assign the variables to the following properties (Input/Output).

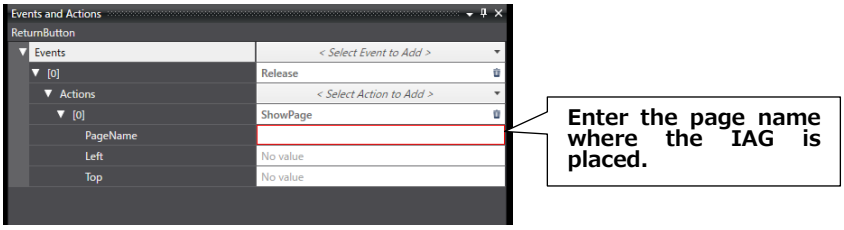
| Property (Input/Output) | Description | Variable | Data Type |
|---|---|---|---|
| SelectDeviceIPAddress | IP address of the device to be displayed | SelectDeviceIPAddress | String |
| LogPort1FCSErrorCount | Variable to log the FCS error frequency | LogPort1FCSErrorCount | UShort(49) |
| LogPort1FCSErrorTime | Variable to log the FCS error frequency | LogPort1FCSErrorTime | Date(49) |
| LogPort2FCSErrorCount | Variable to log the FCS error frequency | LogPort2FCSErrorCount | UShort(49) |
| LogPort2FCSErrorTime | Variable to log the FCS error frequency | LogPort2FCSErrorTime | Date(49) |
| LogInputPowerVoltage | Variable to log the input voltage | LogInputPowerVoltage | UShort(49) |
| LogInputPowerVoltageTime | Variable to log the input voltage | LogInputPowerVoltageTime | Date(49) |
| LogOutputPowerVoltage | Variable to log the output voltage | LogOutputPowerVoltage | UShort(49) |
| LogOutputPowerVoltageTime | Variable to log the output voltage | LogOutputPowerVoltageTime | Date(49) |

● Common Background Screen Setting 1

Allocate the Common Background Screen to all the screen with destination IAGs. Place screen switching buttons on the Common Background Screen next. Set the action *ShowPage* to the button event *Release*, and then, enter the page name.




**Events and Actions** for screen switching button

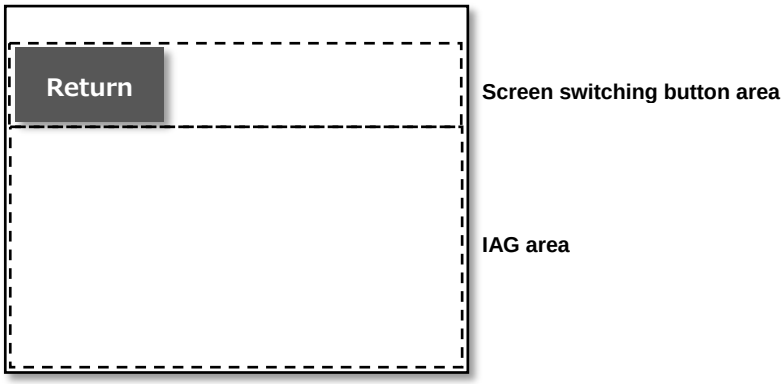



Additional Information

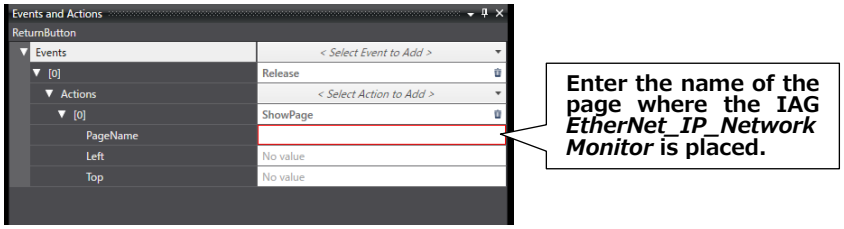
The type of button is not specified.

● Common Background Screen Setting 2

In the same way, place the Return button on the Common Background Screen. Then set the action *ShowPage* to the button event *Release*. Next, enter the name of the previous page in which the IAG *EtherNet_IP_NetworkMonitor* is placed.




**Events and Actions** for screen switching button




Additional Information

The type of button is not specified.

# Revision History

| Revision Code | Date | Revision Description |
|---|---|---|
| 01 | March 2020 | First edition |

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