



Programmable Terminal NA Series

# Practice Guide IAG Collection for EtherNet/IP™ Monitor

NA5-15□101□

NA5-12□101□

A large rectangular box with a vertical gradient from yellow at the top to orange at the bottom, containing the text "Practices Guide".

Practices  
Guide

## ■ Introduction

This guide describes reference information to create and use IAG objects. It does not provide safety information.

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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- Omron products in the catalogues are not intended to be used in automotive applications (including two-wheel vehicles). Please DO NOT use Omron products in automotive applications. Contact our sales personnel for automotive products.

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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
  - (e) Software program by anyone except Omron
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Omron products and/or technical documents may not be provided to customers if they violate the laws and regulations.

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# 1 Related Manuals

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No.	Model	Title
V117	NA5-15W□□□□ NA5-12W□□□□ NA5-9W□□□□ NA5-7W□□□□	Programmable Terminal NA Series Hardware USER'S MANUAL
V118	NA5-15W□□□□ NA5-12W□□□□ NA5-9W□□□□ NA5-7W□□□□	Programmable Terminal NA Series Software USER'S MANUAL
V119	NA5-15W□□□□ NA5-12W□□□□ NA5-9W□□□□ NA5-7W□□□□	Programmable Terminal NA Series Device Connection USER'S MANUAL
V120	NA5-15W□□□□ NA5-12W□□□□ NA5-9W□□□□ NA5-7W□□□□	Programmable Terminal NA Series STARTUP GUIDE
W504	SYSMAC-SE2□□□	Sysmac Studio Version 1 OPERATION MANUAL

# 2 Precautions

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- (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) All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form, or by any means, mechanical, electronic, photocopying, recording, or otherwise, without the prior written permission of OMRON.
- (5) The information in this guide is current as of February 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:



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## Precautions for Safe Use

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

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## Precautions for Correct Use

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

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## Additional Information

Additional information to read as required.

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

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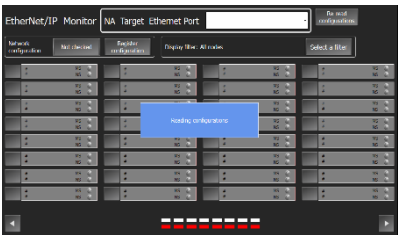



# 3 Overview

## 3-1 Overview

This document describes IAG collections that directly read the information about the EtherNet/IP network or devices connected with the NA Series HMI.

- IAG external specifications
- IAG installation on a screen

IAG	Icon	Description
EtherNet_IP_NetworkMonitor		Monitor for an EtherNet/IP device on a network together with NA
DLR_Monitor		DLR monitor for DLR Super Visor

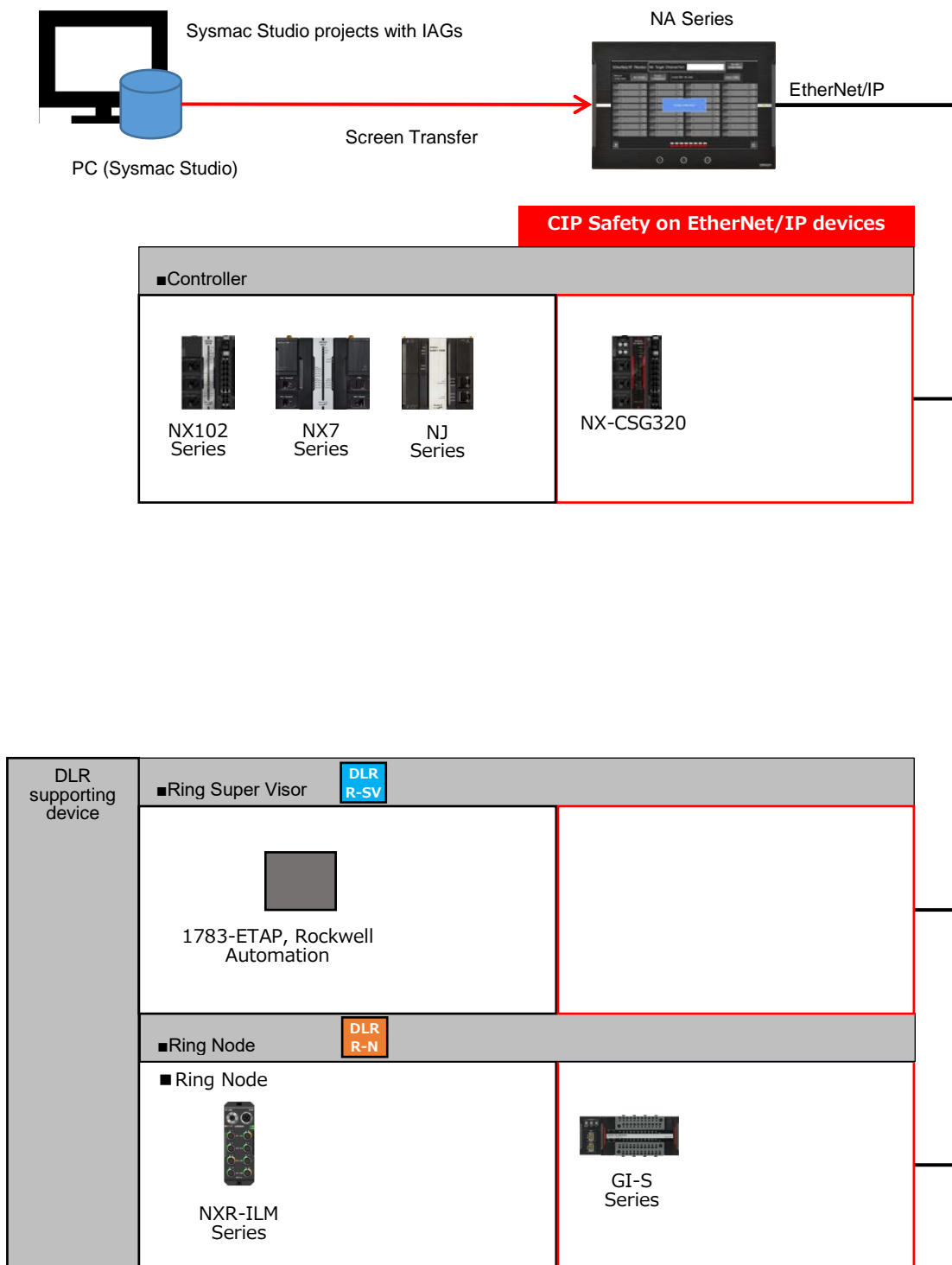
These IAGs are included in the IAG collection file below.

File name	Description
EtherNetIPMonitor_IAG_12inch_RevA.iag	For “RevA”, the underlined letter stands for version.

Ask an 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 <b>Minimum supported HMI version</b> 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

Version	Version	Remarks
IAG Collection	Ver1.00	Filename extension is ".iag".
IAG	Noted individually	Refer to Chapter5 "Properties."
NA	Ver. 1.11 and later	
NA OS	Ver. 7.3.0 and later	

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

Supported Device	Version	Remarks
NX-CSG320	Ver. 1.00 and later	Operation tested with Ver. 1.00
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
1783-ETAP	Ver. 2.02 and later	Operation tested with Ver. 2.02
GI-S□D□□□□	Ver. 1.2 and later	Operation tested with Ver. 1.2

# 5 IAG Descriptions

## 5-1 EtherNet/IP NetworkMonitor

### 5-1-1 Specifications

- External Specifications

<b>Object</b>	EtherNet_IP_NetworkMonitor
<b>Category</b>	EtherNet_IP_Monitor
<b>Functions</b>	<ul style="list-style-type: none"> <li>• Detects all the EtherNet/IP devices that connected with the same network as NA's Ethernet Port1/Port2. And displays the models and IP addresses on the EtherNet/IP Screen.</li> <li>• You can register a network configuration and compare it with an actual configuration. Registered information is saved to the FTP transfer folder as a file. (Filename: NetworkConfig.bin) Only a registered user is allowed to register the configuration.</li> <li>• You can filter the detected devices to display.</li> </ul>
<b>Graphics</b>	<p>This IAG consists of a screen and four pop-ups.</p> <p>The diagram illustrates the graphical user interface for the EtherNet/IP NetworkMonitor. It features a central 'EtherNet/IP Screen' which is a table displaying device information. Four pop-up windows are shown:      <ul style="list-style-type: none"> <li><b>Filtering Window:</b> A dialog box for selecting filters to narrow down the device list.</li> <li><b>Network Configuration Mismatches Window:</b> A table comparing registered configurations with actual network configurations.</li> <li><b>Network Configuration Registration Window:</b> A form for entering user credentials (Authority, Username, Password) to register a configuration.</li> <li><b>No Registered User Window:</b> A red error message box stating 'User with permission to register network configuration not found.' and providing instructions to check the registered username.</li> </ul>     Arrows indicate the flow of data and control between the main screen and these pop-up windows.</p>

• Screen Specifications

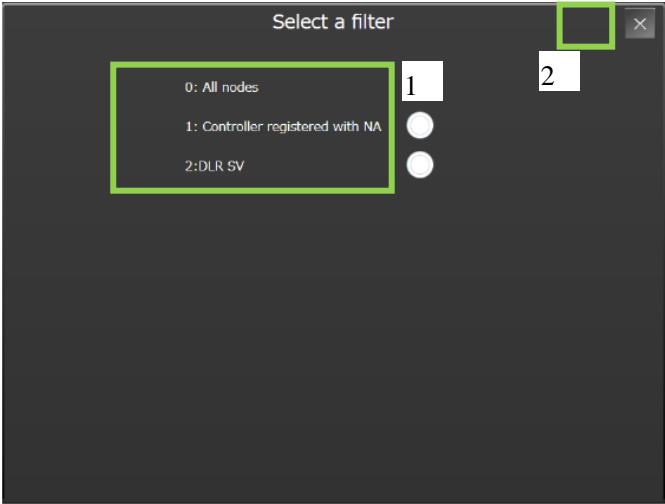
EtherNet/IP Screen

EtherNet/IP devices that connected to NA's Ethernet ports are detected and displayed on this screen.

User I/F Specifications

No	Part	Description
1	Group	The information of a device is shown. Refer to No. 9 and later for details.
2	DropDown	You can select an NA port. Port 1 is selected by default. Devices connected to the selected port are displayed.
3	Button	Reads the configuration out.
4	Button Lamp	Displays a check result of the actual and registered configurations. When no configuration is registered, displays "Not registered." Touched when the result is "Mismatch", the screen switches to the Network Configuration Mismatches Window.
5	Button	Enables to go to Network Configuration Registration Window.
6	Button	Enables to go to Filtering Window.
7	Group	Appears when the button No. 3 is pressed. The dialog "Reading configurations" blinks.
8	Button	Enables you to go to the previous network configuration page. Available for 32 and more devices.
9	Button	Enables you to go to the next network configuration page. Available for 32 and more devices.
10	Lamp	Indicates pages for devices connected to the network. The same numbers of white lamps as pages are displayed. A gray lamp indicates the page currently displayed. Red lamps are for expansion and not shown in the actual NA.
11	DataDisplay	Unit model is displayed.
12	DataDisplay	Unit's IP address is displayed.
13	Lamp	Indicates if the unit is included in the DLR configuration. The indication switches to Ring Super Visor (DLR R-SV) or Ring Node (DLR RN).
14	Lamp	Indicates a failure of the unit. Supports only GI-S Units.
15	Lamp	Indicates a failure in the network. Supports only GI-S Units.

16	Button Lamp	Events are executed according to the unit type. When an error occurs on GS-S Unit, outlined in red.
Layout		
Properties	Default	Description
Position (Left, Up)		Set in Property.
Size (Width, Height)		Set in Property.

Filtering Window	You can filter the devices to display on the EtherNet/IP screen. Filtering setting is possible using the I/O variable <i>FilterMode</i> .	
		

User I/F Specifications		
No	Part	Description
1	RadioButton	You can select a filter to display specific devices on the EtherNet/IP screen. <b>Controller registered with NA</b> refers to the unit registered in Device Reference of a project file. <b>DLR SV</b> refers to the DLR Super Visor unit. You cannot select multiple filters at the same time.
2	Button	Switches the screen to EtherNet/IP Screen.
Layout		
Properties	Default	Description
Position (Left, Up)		Fixed
Size (Width, Height)		Fixed

Network Configuration Registration Window	<p>You are required to enter a password in this window when registering a network configuration. Following to the security settings of NA, register a network configuration when a login is permitted. If a user name is not assigned to the input variable <i>RegisteredUserName</i>, a configuration is registered without displaying this window.</p>

User I/F Specifications		
No	Part	Description
1	Data Display	Authority of a user displayed in the box 2 is shown.
2	Data Display	User name assigned to the input variable <i>RegisteredUserName</i> is displayed.
3	Data Edit	Enter a password here.
4	Button	Registers a network configuration.
5	Button	Switches the screen to EtherNet/IP Screen.
Layout		
Properties	Default	Description
Position (Left, Up)		Fixed
Size (Width, Height)		Fixed

No Registered User Window	<p>This window shows that a user who are authorized to register a network configuration does not exist in the security settings of a project file. The window appears when the authorized user does not exist at the configuration registration.</p>

User I/F Specifications		
No	Part	Description
1	Data Display	The user name designated in this IAG is shown. The value assigned to the input variable of this IAG, <i>RegisteredUserName</i> , is displayed.
2	Button	Switches the screen to EtherNet/IP Screen.
Layout		
Properties	Default	Description
Position (Left, Up)		Fixed
Size (Width, height)		Fixed

Network Configuration Mismatches Window	Differences between the current network configuration and the registered configuration are displayed.

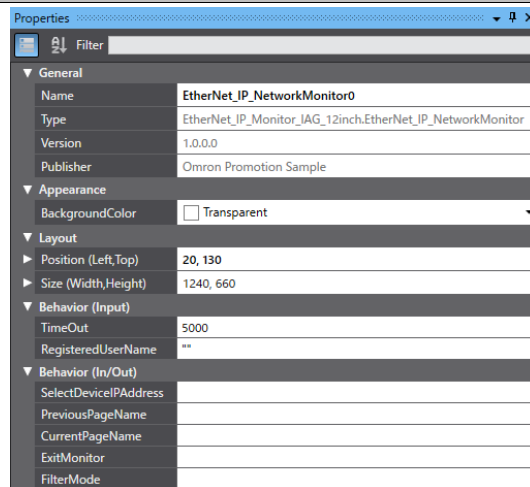
User I/F Specifications		
No	Part	Description
1	Data Display Data Lamp	Differences between the current network configuration and the registered configuration are displayed. Configurations are compared based on unit model and IP address.
2	Data Display	A number of mismatches is displayed.
3	Data Display	Page numbers are displayed.
4	Button	Switches the window to Network Configuration Registration Window.
5	Button	Displays the previous page.
6	Button	Displays the next page.
7	Button	Enables to go to EtherNet/IP Screen.
Layout		
Properties	Default	Description
Position (Left, Up)		Fixed
Size (Width, Height)		Fixed



## ● Properties

Property	Description	Input Mode	Input Range Data Type	Default
<b>General</b>				
Name	Object name. Must not be overlapped in a screen.	Direct input	Character string (1 to 127)	EtherNet_IP_NetworkMonitor0
Type	Object type. Not changeable.	-	-	EtherNet_IPMonitor_IAG_12inch.EtherNet_IP_NetworkMonitor
Version	IAG version	-	-	1.0.0.0
Publisher	IAG publisher	-	-	Omron Promotion Sample
<b>Appearance</b>				
Background Color	Background color of a page	Item selection Direct input	Color pallet Character string	Transparent <sup>1</sup>
<b>Layout</b>				
▼ Position (Left , Top)	Position setting of an object in a page. <sup>2</sup>	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 top-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
<b>Input</b>				
TimeOut	Time-out period to read the configuration Unit:ms E.g. 5000 = 5 s	Variable specification	Integer	5000
RegisteredUserName	User name authorized to register a network configuration. Any user is allowed to register, if it is left blank.	Variable specification	String	""
<b>Input/Output</b>				
SelectDeviceIPAddress	IP address of device to display	Variable specification	String	(Blank)
CurrentPageName	Page name where this IAG is located	Variable specification	String	(Blank)
PreviousPageName	Page name that changes after the end of this page by the "ExitMonitor" flag	Variable specification	String	(Blank)
ExitMonitor	Execution flag for ending this page	Variable specification	Boolean	(Blank)
FilterMode	Filtering for configuration information 0: Show all nodes 1: Show only controllers registered to NA 2: Show only DLR SV	Variable specification	Byte	(Blank)

## Image



1: Transparent

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



### Precautions for Correct Use

In the usage described in this document, do not set the In/Out variables *CurrentPageName* and *ExitMonitor* and leave them blank to avoid unintended behaviors.

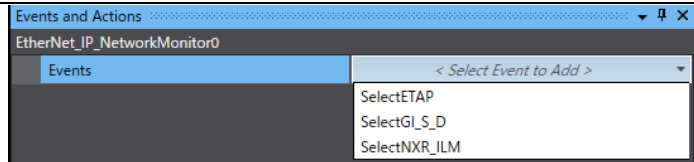
### ● Version History

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

- Events & Actions

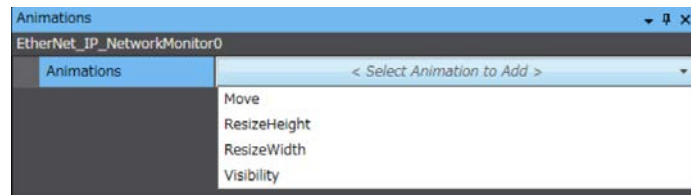
The following IAG event can be detected.

Event	Description
SelectETAP	Executed when an ETAP device is selected.
SelectGI_S	Executed when a GI-Series Unit is selected.
SelectNXR_ILM	Executed when an NXR- ILM Unit is selected.



- Animations

Basic motions can be defined.



- Security

If a user name has been assigned to the input variable *RegisteredUserName* at a configuration registration, you are required to login to NA.

You must enter the user account name and password registered in Security Settings of Sysmac Studio.

You can login to NA with the user account assigned to the input variable of this IAG, *RegisteredUserName*.



#### Precautions for Correct Use

The IAG does not work when the user assigned to the input variable of this IAG, *RegisteredUserName*, is not included in the user names in Security Settings.

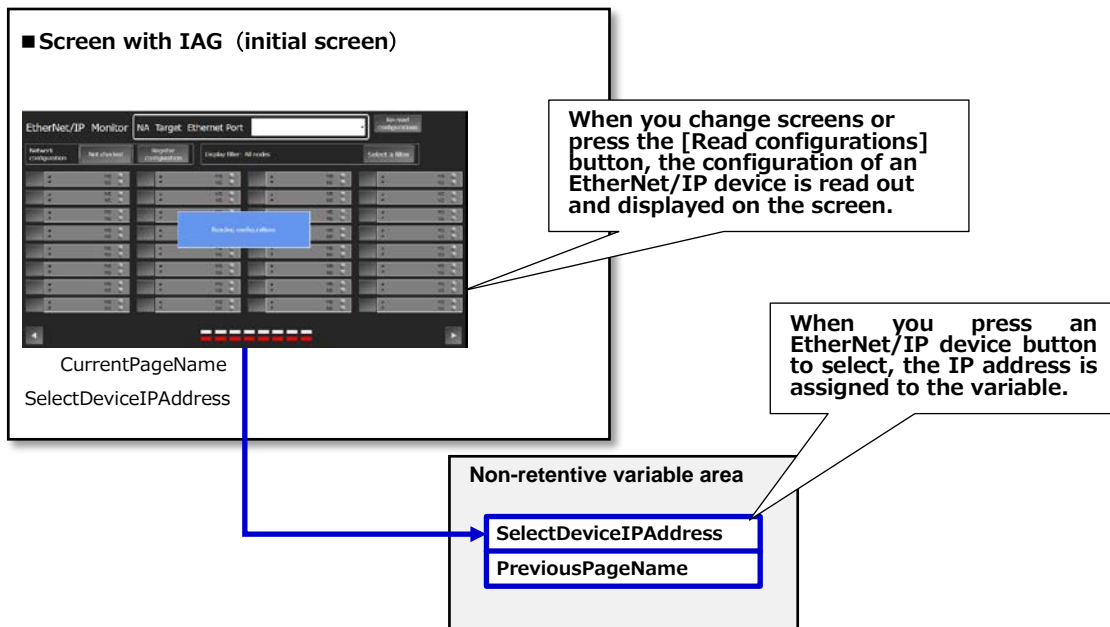
If a user name is not assigned to the input variable *RegisteredUserName*, i.e., the variable is blank, a configuration is registered without login.

## 5-1-2 Installation to Screen

### ● Property Assignment

This IAG reads and displays the configuration information of an EtherNet/IP device that connected to NA's Ethernet port. Assign a variable to the following property (Input/ Output) in order to share the IP address information of the EtherNet/IP device pressed on the screen with each device's detailed information page.

Property (Input/Output)	Description	Data Type
SelectDeviceIPAddress	IP address of device to display	String
CurrentPageName	Page name where this IAG is located	String



## 5-2 DLR Monitor

### 5-2-1 Specifications

#### ● External Specifications

<b>Object</b>	DLR_Monitor
<b>Category</b>	EtherNet_IP_Monitor
<b>Functions</b>	<ul style="list-style-type: none"> <li>• Monitors and displays a disconnection in the DLR topology and a failure in the ring node during the Ring Topology Screen is displayed.</li> <li>• Executes an event that the GI-S Unit or the GI-ILM Unit button is pressed to be selected in the Ring Node displayed on the Ring Topology screen. And assigns the target unit's IP address to an I/O variable.</li> <li>• This IAG supports the Rockwell Automation DLR Super Visor Unit, 1783-ETAP/A.</li> </ul>
<b>Graphics</b>	<p>This IAG consists of one screen and three pop-ups.</p> <div style="text-align: center;"> <p>The diagram illustrates the graphical components of the DLR Monitor. On the left is the 'Ring Topology Screen', which displays a network diagram with nodes and connections. Three arrows point from this screen to three separate error windows on the right:         <ul style="list-style-type: none"> <li><b>Communication Error Window:</b> Displays a warning icon and the message 'Communications with a DLR Super Visor has been disconnected. Check if devices or communications have any failure.' with an 'EIP Monitor' button.</li> <li><b>DLR Configuration List Error Window:</b> Displays a warning icon and the message 'DLR configuration list error. Failed to make a DLR configuration list. Check the following disconnected pairs. Disconn: Pwr1 # Pwr2 # W3A3 suggests the possibility of disconnection near I.M.' with an 'EIP Monitor' button.</li> <li><b>Over-connected Window:</b> Displays a warning icon and the message 'Over-connected. Too many devices are connected to the DLR to display in configuration table. Connected devices: #' with an 'EIP Monitor' button.</li> </ul> </p> </div>

## ● Screen Specifications

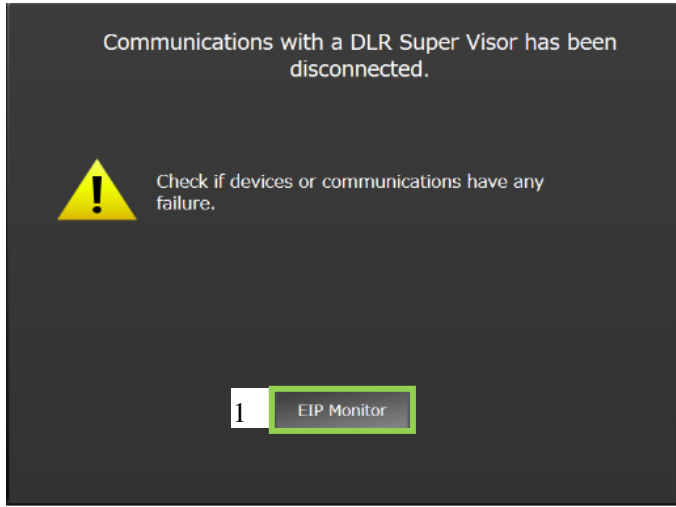
Ring Topology Screen	<p>This screen shows a ring topology of the DLR.</p>
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### User I/F Specifications

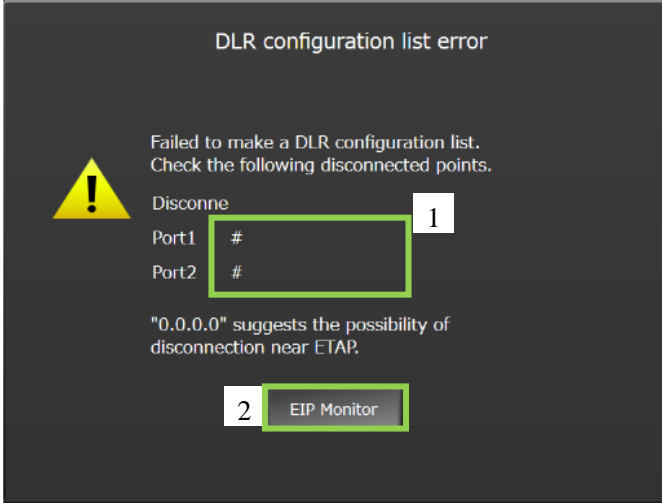
No	Part	Description
1	Button	Reads out the configuration
2	Data Display	Information about DLR Super Visor is shown.
3	Data Display & Button	The information of the selected device is shown. Executes the event <i>SelectGI_S</i> when the GI-Series Unit's button is touched. Executes the event <i>SelectNXR_ILM</i> when the NXR-ILM Series Unit's button is touched.
4	Ellipse	Indicates a failure point in communications.
5	BitLamp & Label	The message appears when communication error occurs.
6	Button	Executes the event <i>SelectEIPMonitor</i> .
7	Data Display	IP address of DLR Super Visor is shown.

### Layout

Properties	Default	Description
Position (Left, Up)		Set in Property.
Size (Width, Height)		Set in Property.

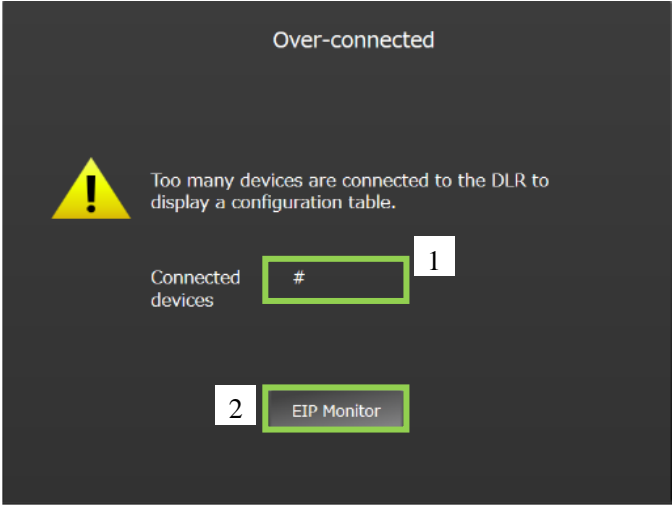
Communication Error Window	This pop-up window notifies that communications between NA and DLR Super Visor were failed.	
		

User I/F Specifications		
No	Part	Description
1	Button	Executes the event <i>SelectEIPMonitor</i> .
Layout		
Properties	Default	Description
Position (Left, Up)		Fixed
Size (Width, Height)		Fixed

DLR Configuration List Error Window	This pop-up window notifies that DLR Super Visor failed to create a DLR table. The error occurs when the ring has been broken at creating a table.
	

User I/F Specifications		
No	Part	Description
1	Data Display	IP address of a disconnected point is displayed.
2	Button	Executes the event <i>SelectEIPMonitor</i> .
Layout		
Properties	Default	Description
Position (Left, Up)		Fixed
Size (Width, Height)		Fixed



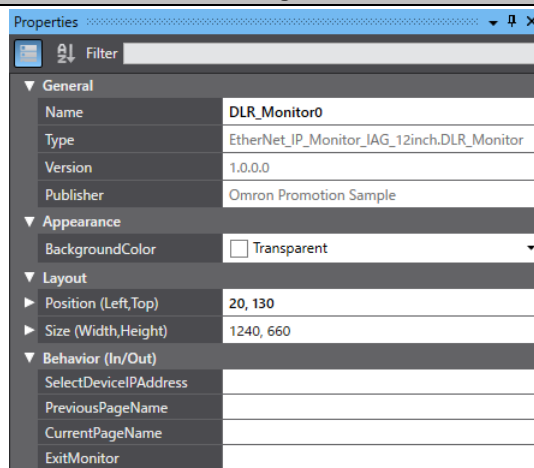
Over-connected Window	<p>This window notifies that the number of devices connected to the DLR has exceeded the limit. It appears when 50 and more devices are connected, including DLR Super Visor.</p>
	

User I/F Specifications		
No	Part	Description
1	Data Display	The number of devices connected to the DLR is displayed.
2	Button	Executes the event <i>SelectEIPMonitor</i> .
Layout		
Properties	Default	Description
Position (Left, Up)		Fixed
Size (Width, Height)		Fixed

## ● Properties

Property	Description	Input Mode	Input Range Data Type	Default
<b>General</b>				
Name	Object name. Must not be overlapped in a screen.	Direct input	Character string (1 to 127)	DLR_Monitor0
Type	Object type. Not changeable.	-	-	EtherNet_IP_Monitor_IAG_12inch.DLR_Monitor
Version	IAG version	-	-	1.0.0.0
Publisher	IAG publisher	-	-	Omron Promotion Sample
<b>Appearance</b>				
Background Color	Background color of a page	Item selection Direct input	Color pallet Character string	Transparent <sup>1</sup>
<b>Layout</b>				
▼Position (Left , Top)	Position setting of an object in a page. <sup>2</sup>	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
<b>Input/Output</b>				
SelectDeviceIPAddress	IP address of device to display	Variable specification	String	(Blank)
CurrentPageName	Page name where this IAG is located	Variable specification	String	(Blank)
PreviousPageName	Page name that changes after the end of this page by the "ExitMonitor" flag	Variable specification	String	(Blank)
ExitMonitor	Execution flag for ending this page	Variable specification	Boolean	(Blank)

### Image



1: Transparent

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



## Precautions for Correct Use

In the usage described in this document, do not set the In/Out variables *CurrentPageName*, *PreviousPageName* and *ExitMonitor* and leave them blank to avoid unintended behaviors.

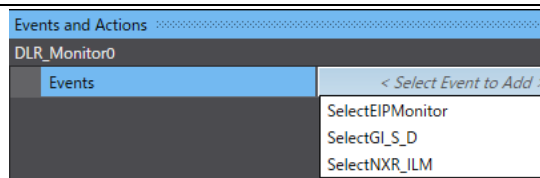
## ● Version History

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

## ● Events & Actions

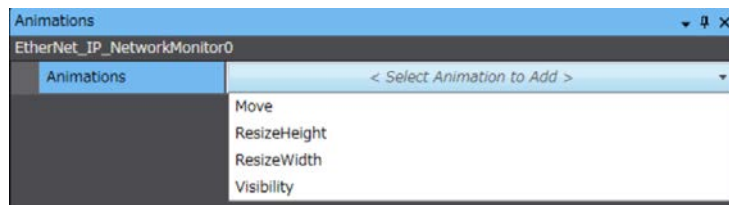
The following IAG event can be detected.

Event	Description
SelectEIPMonitor	Executed when the EIP Monitor button is pressed.
SelectGI_S	Executed when a GI-Series Unit is selected.
SelectNXR_ILM	Executed when an NXR- ILM Unit is selected.



## ● Animations

Basic motions can be defined.



## ● Security

No security function available.

This IAG Collection assumes the following usage.

- When the button for the ETAP device on the DLR SuperVisor, which is displayed by the IAG “EtherNet\_IP\_Network Monitor” located on another page, is pressed, the screen switches to the page with this IAG and then this IAG accesses to the device to receive and display the necessary information.
- When you press the EIP Monitor button in this IAG, the screen switches to the previous page, where the IAG “EtherNet\_IP\_NetworkMonitor” is placed.

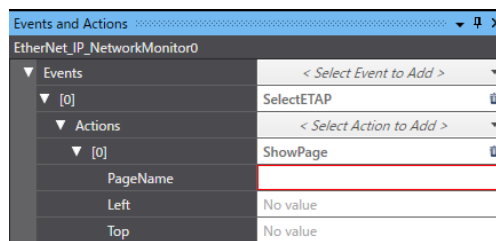
Do the following work when making this design.

● Events and Actions settings for IAG “EtherNet/IP NetworkMonitor”

Set the action “ShowPage” for the event “SelectETAP” in the IAG

“EtherNet\_IP\_NetworkMonitor” and enter the page name in which this IAG is placed.

Event	Description
SelectETAP	Executed when an ETAP device is selected.



Enter the name of the page where the IAG is placed.

● Property Assignment for IAG “EtherNet/IP NetworkMonitor”

Assign the following properties (Input/Output) of IAG “EtherNet/IP NetworkMonitor” to the following variable.

Property (Input/Output)	Description	Variable Name	Data Type
SelectDeviceIPAddress	IP address of the displayed unit	SelectDeviceAddress	String

● Property Assignment for IAG “DLR Monitor”

Assign the following properties (Input/Output) of this IAG to the following variable.

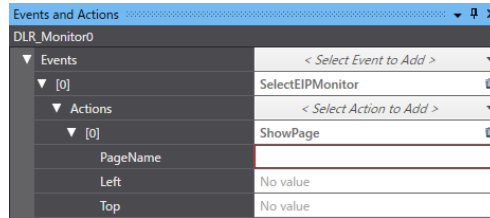
Property (Input/Output)	Description	Variable Name	Data Type
SelectDeviceIPAddress	IP address of the displayed unit	SelectDeviceAddress	String

The IP address information is shared by this operation.

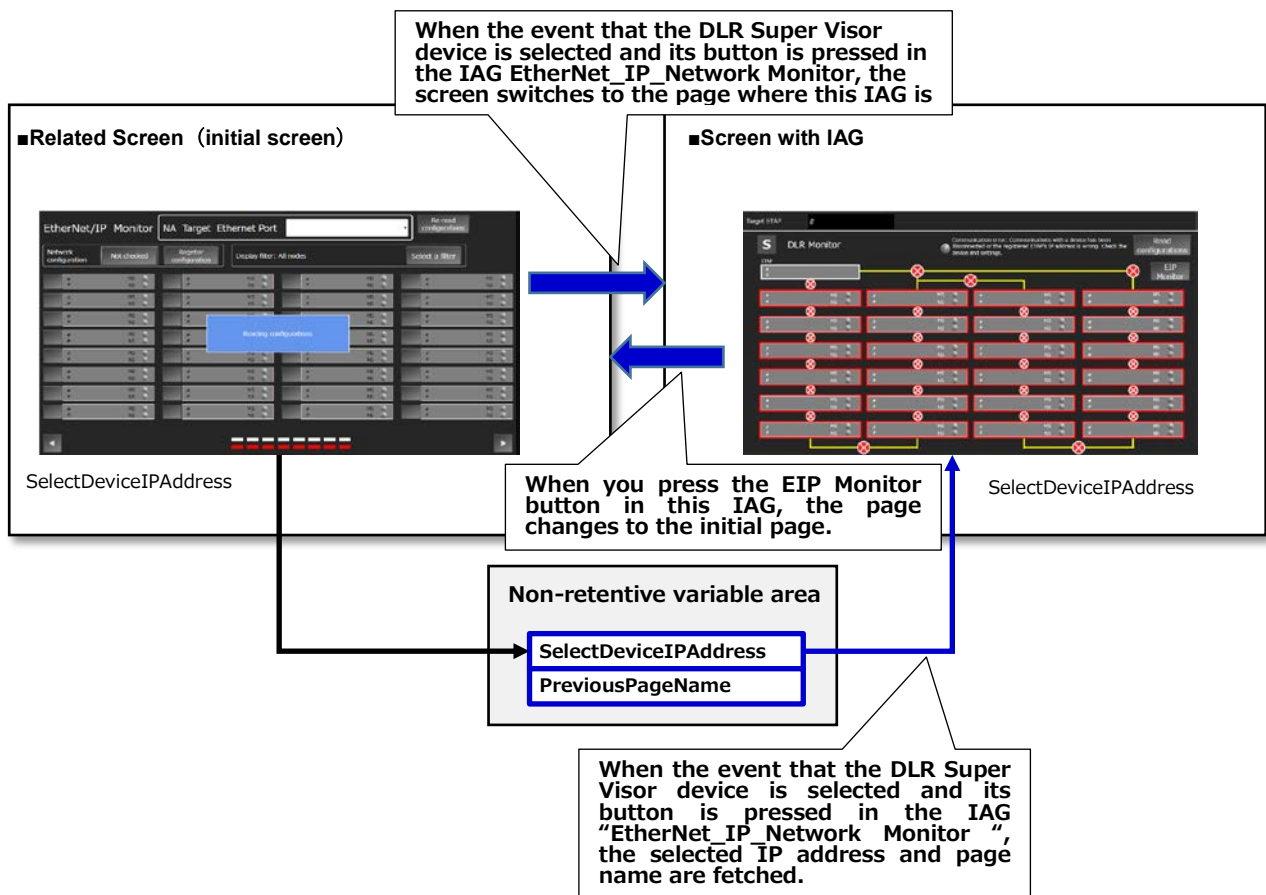
● Events and Actions settings for IAG “DLR Monitor”

Set the action “ShowPage” for the IAG event “SelectEIPMonitor.”

Event	Description
SelectEIPMonitor	Executed when the EIP Monitor button is pressed.



Enter the name of the page where the IAG “ETtherNet\_IP\_Networ kMonitor” is placed.



# Revision History

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Revision Code	Date	Revision Description
01	February 2020	First edition

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