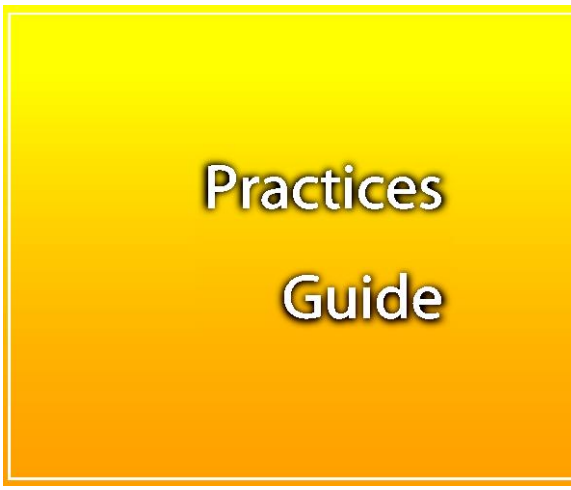
OMRON

Programmable Terminal NA Series

Practice Guide
IAG Library for Simple Login to HMI

NA5-15□101□
NA5-12□101□
NA5-9□001□
NA5-7□001□



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V452-E1-02

■ Introduction

This guide provides the reference information when creating and using IAG objects. It does not provide safety information. Be sure to obtain the NA Series Programmable Terminal User's Manual, to read the safety and other information necessary to use, and to test the equipment sufficiently before actual use.

Terms and Conditions Agreements

Thank you for your usage of products of Omron Corporation (Omron). These terms and conditions shall be applied to all transactions regardless of who sells if there is no special agreement on the products.

- Definitions of Terms

  Omron product(s): Omron branded Factory Automation (FA) system equipment, general-purpose control devices, sensors, and electronic/mechanism components.

  - Catalogues: Omron general catalogue "BEST", electronic/mechanism components general catalogue and other catalogues, specifications, instructions and manuals of Omron products, including electronically provided information available on the Omron electronic components information website, etc.
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  - Fitness: (a)Fitness, (b)performance, (c) non-infringement of third-party intellectual property, (d) compliance with laws and regulations and (e)conformity to various standards.

- Note about Descriptions

  Attention is required to the following points for information obtained from Catalogues.

  (1) Rated values and performance values are the product of tests performed for separate single conditions, including but not limited to temperature and humidity. Omron does not warrant rated values and performance values for multiple combined conditions.

  (2) Reference data are provided for reference only. Omron does NOT warrant that Omron products work properly at all times in the range of reference data.

  (3) Application examples are provided for reference only. Omron does NOT warrant the fitness of Omron products under such applications.

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  Please be aware of and accept the following when you introduce or use Omron products:

  (1) Please use Omron products in compliance with usage conditions including rating and performance limits.

(2) Please confirm the fitness of Omron products in your application and use your own judgment to determine the appropriateness of using them in such application. Omron shall not warrant the fitness of Omron products in customer applications.
(3) Please confirm in advance that Omron products are properly wired and installed for their intended use in your overall system.
(4) When using Omron products, please make sure to (i) maintain a margin of safety between the published rated and performance values, and the application requirements, (ii) design to minimize risks to customer application in case of failure of Omron products, such as introducing redundancy, (iii) introduce system-wide safety measures to notify risks to users, and (iv) conduct regular maintenance on Omron products and customer application.
(5) Omron assumes no responsibility for any direct or indirect loss, damage and expense resulting from infection of our products, installed software, any computer devices, computer programs, network, and databases with the followings:
- DDoS attack (distributed DoS attack),
- Computer virus and other technically harmful program, and
- Unauthorized access.

Please conduct the followings by yourself: (i) antivirus software, (ii) data input/output, (iii) lost data recovery, (iv) protections against computer virus that contaminate Omron products or the installed software, and (v) measures to protect Omron products from unauthorized access.
(6) Omron products are designed and manufactured as general-purpose products for use in general industrial applications. They are not intended to be used in the following critical applications. If you are using Omron products in the following applications, Omron shall not provide any warranty for such Omron products, unless otherwise specifically agreed or unless the specific applications are intended by Omron.
(a) Applications with stringent safety requirements, including but not limited to nuclear power control equipment, combustion equipment, aerospace equipment, railway equipment, elevator/lift equipment, amusement equipment, medical equipment, safety devices and other applications that could cause danger/harm to people's body and life.
(b) Applications that require high reliability, including but not limited to supply systems for gas, water and electricity, etc., 24 hour continuous operating systems, financial settlement systems and other applications that handle rights and property.
(c) Applications under severe condition or in severe environment, including but not limited to outdoor equipment, equipment exposed to chemical contamination, equipment exposed to electromagnetic interference and equipment exposed to vibration and shocks.
(d) Applications under conditions and environment not described in specifications.
(7) In addition to the applications listed from (a) to (d) above, Omron products (see definition) are not intended for use in vehicles designed human transport (including two

wheel vehicles). Please do NOT use Omron products for vehicles designed human transport. Please contact Omron sales representatives for information on our automotive line of products.

- Warranty Terms and Conditions

The terms and conditions for warranty of Omron products are as follows:

(1) Warranty Period: Warranty period is one year after the date of purchase. However, it is excepted when there is an additional description in the catalogues.

(2) Coverage: Omron, at its own discretion, will provide one of the following two services for malfunctioning Omron products:

(a) Free repair of the malfunctioning Omron products at an Omron maintenance service location. No repair support is available for electronic components.

(b) Free replacement of the malfunctioning Omron products with the same number of replacement/alternative products.

(3) Exceptions: Omron will not cover Omron products under its warranty if the cause of the malfunction falls under any of the following.

(a) Usage in a manner other than the original intended use for the Omron products.

(b) Usage outside of the usage conditions.

(c) Usage of the product against the conditions described in “Note about Use”

(d) Modification or repair made to the Omron product by other than Omron personnel.

(e) Software program embedded by other than Omron or usage of such software.

(f) Cause which could not have been foreseen with the level of science and technology at the time of shipping from Omron.

(g) Causes originating from other than Omron or Omron products (including causes such as, but not limited to, natural disasters).

- Limitation of Liability

The warranty set out in these Terms and Conditions is the whole and sole liability for Omron products. There are no other warranties, expressed or implied. Omron and the distributors of Omron products are not liable for any damages which may arise from or be related to Omron products.

- Export Controls

Customers of Omron products shall comply with all applicable laws and regulations of Japan and/or other relevant countries with regard to security export control, when exporting Omron products and/or technical documents or providing such products and/or documents to a non-resident. Omron may not provide customers with Omron products and/or technical documents should they fail to comply with such laws and regulations.

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1 Related Manuals

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
V447	NA5-15W□□□□ NA5-12W□□□□ NA5-9W□□□□ NA5-7W□□□□	Programmable Terminal NA-series Practice Guide Demonstration Screen for Safety CPU

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 take safety measures such as safety circuits to minimize the possibility of an accident.
(2) For safe use of the system, get the manuals of the component devices of the system and check the information in each manual, including “Safety Precautions” or “Precautions for Safe Use” before usage.
(3) It is the responsibility of the customer to check all the laws, regulations, and standards that the system must comply with.
(4)
(5) The information in this guide is current as of December 2019.
It is subject to change without notice because of product upgrade.
(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

It describes precautions on what to do and what no to do to ensure safe usage of the product.

Precautions for Correct Use

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

Additional Information

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

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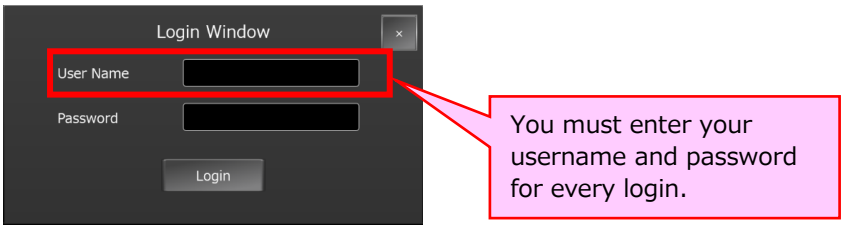
3 Overview

3-1 Overview

This guide provides the information about the IAG which enables simple and easy login for on-site operators when executing the login procedure for NA series HMI security setting.

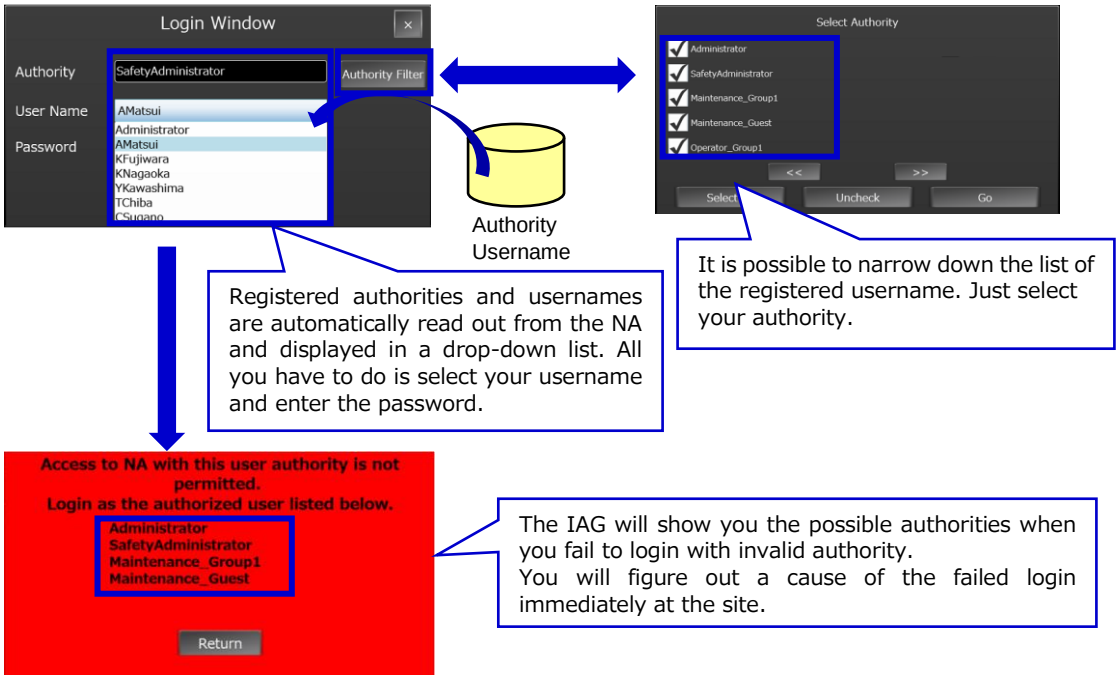
■ Standard Login to NA

An operator must remember his/ her username and password and enter both of them with the keyboard to login.

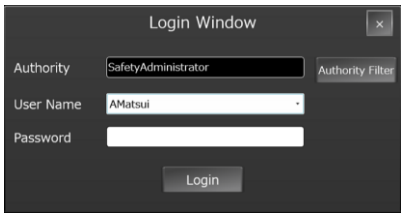


■ Login with IAG

The IAG reads the authorities and usernames registered on the NA and suggests candidates. All you have to do is select your username and type the password.
If many users have been registered, the Authority Filter makes it easy to select.
The IAG can show you the possible authorities when you fail to login with invalid authority.



This guide describes details about the IAG objects that make up this function.

Object	Icon	Description
LoginWindowForUser		Registered user authority is verified at login. Login procedures are different according to the result of verification.
LoginButton		This object is used together with the object *LoginWindowForUser*. It is possible to set a behavior according to login condition.
LoginFeedBackButton		This object is used together with the object *LoginWindowForUser*. It behaves same as LoginButton. Also can control on/off of the Feedback Lamp of the Login Button.

The following two files contain those IAGs.

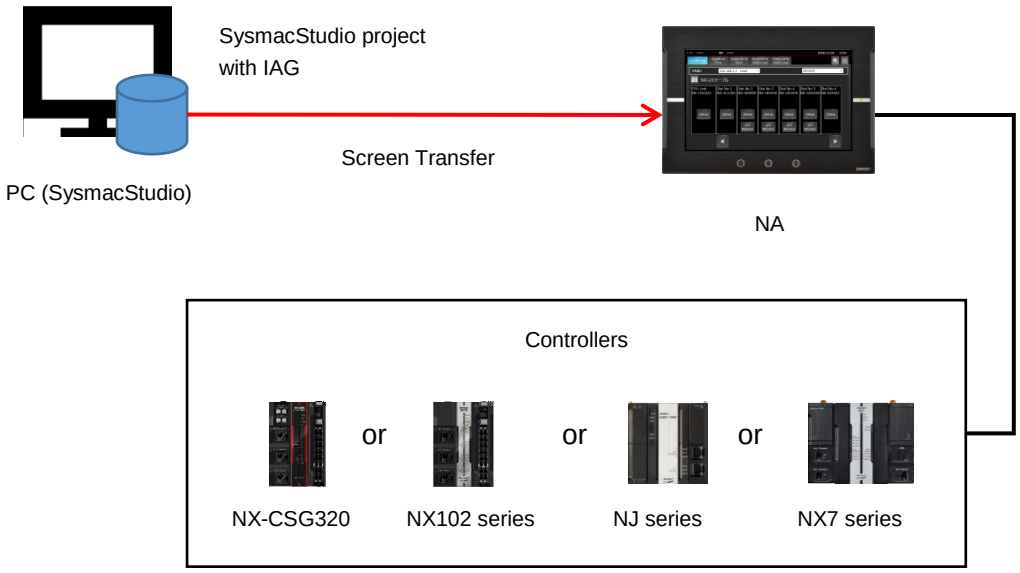
File	Icon	Description
GeneralLogin_IAG_7inch_RevB.iag	7/ 9- inch	
GeneralLogin _IAG_12inch_RevB.iag	12/ 15-inch	

Ask the Omron sales representative to get the files.

The description and introduction procedure about IAG objects are for 7-inch display. The contents except IAG objects are the same. When you create screens for 12-inch NA, the IAG objects in this document should be replaced as necessary.

3-2 System Configuration

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



Tested versions are the following:

- NA OS : 7.2.1
- NA: 1.10
- SysmacStudio: 1.25
- Distribution file: 1.0*
- NX-CSG320: 1.00
- NX102-□□□□: 1.31
- NJ□□□-□□□□: 1.18
- NX7-□□□□: 1.18

*: See Chapter 4, “Library Version” for details.

Precautions for Correct Use

Omron tested the operation of this library. However, its quality is not guaranteed because it is a sample product. Confirm that the library operates properly with your equipment before use.

4 Library Version

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

Item	Description	How to Check the Version
Distribution file	The distributed IAG files have the library versions.	The version can be checked in the SysmacStudio IAG Collections Manager pop-up.
IAG library	Version of each IAG library. It manages specification change, bug correction, and others.	IAG project file editing function in SysmacStudio. 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 the 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 the NA runtime version.	System Menu of NA. It will be checked if necessary when you upgrade NA runtime version of a project in SysmacStudio.

The versions of IAG library, NA runtime, and OS in “Practice Guide IAG Library to Visualize Integration of Control and Safety (V448)” are as the following.

Item	Version	Remarks
Distribution file	Same as the version of the IAG library	Filename extension is “.iag”.
IAG library	Noted individually	Refer to Chapter5 “Properties”.
NA	Ver. 1.10 and above	
NA OS	Ver. 7.2.1 and above	

5 Details of IAG Objects

5-1 LoginWindowForRole

5-1-1 Specifications

● External Specification

Object Name	LoginWindowForRole
Category	General_Login
Description	● Implement the login procedure to the NA. ● User authority which permitted to login is registered. ● Filtering by authority ● When an unauthorized user attempts to login, the error window appears notifying of the permitted authority.
Function	Login-permitted user authority is registered, and verified at the time of login. Authorities and usernames registered on the NA are read out to display candidate usernames. It enables an operator to select the username from the drop-down list and to enter only its password for login. Authority Filter can narrow down the username list. It makes easier to select users even when a lot of users are on the list.
Graphic	This IAG consists of three pop-ups. ■Login 

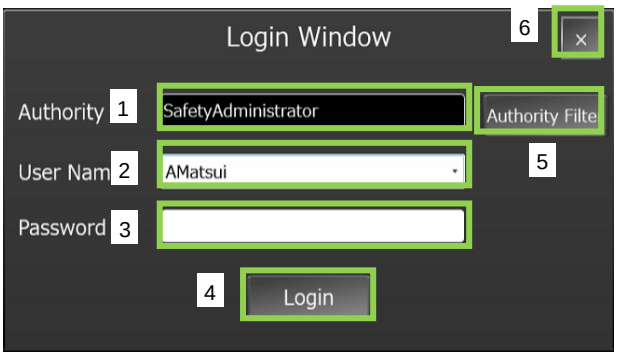
Additional Information

If you have already logged-in with the required authority, this IAG can skip the login procedure. The IAG should be used together with LoginButton (5-2) or LoginFeedBackButton (5-3).

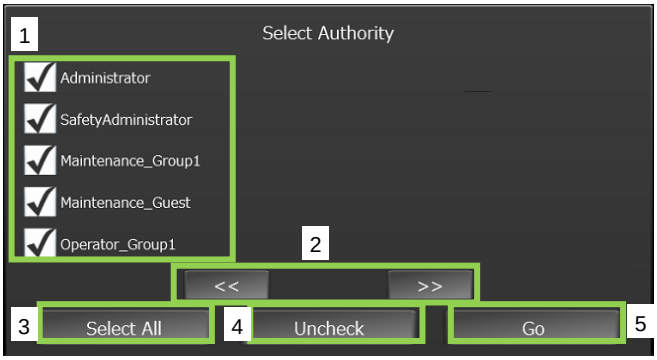
See Chapter 6 “Appendix: How to Use IAG” for details.

● Screen Specifications

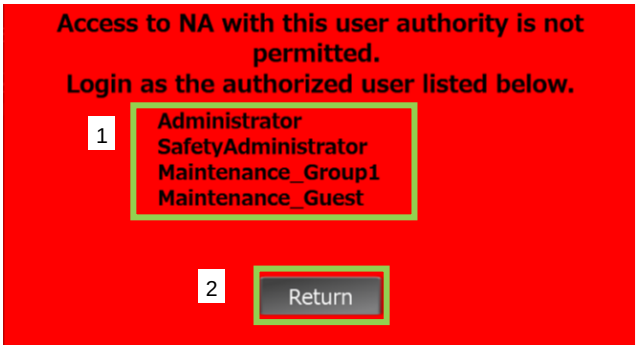
Login	The main screen of this IAG. Username and password are entered in this screen to login.



User I/F Specification		
No	Part	Description
1	Data Display	User authority which selected in [2] is displayed.
2	DropDown	List of registered users on NA is displayed. Select the user to login.
3	Data Edit	Enter the password of the user selected in [2].
4	Button	Login procedure is executed with the information entered in [2] and [3].
5	Button	Authority Filtering Screen appears when this button is pressed.
6	Button	The window is closed by this button.
Layout		
Property	Default	Description
Position (Left, Up)		Set in Property.
Size (Width, Height)		Set in Property.

Authority Filtering	In this pop-up, you can narrow down the user list to be displayed on the Login Window by filtering the users by authority.
	

User I/F Specification		
No	Part	Description
1	CheckBox	List of user authorities registered on NA is displayed here. Select authority you want to display on the Login Window.
2	Button	Display of user authority is switched.
3	Button	All authorities are selected by this button.
4	Button	All checked boxes are cleared by this button.
5	Button	Users are filtered by the selected authority, and after that, the window is switched to the Login Window.
Layout		
Property	Default	Description
Position (Left, Up)		Fixed
Size (Width, Height)		Fixed

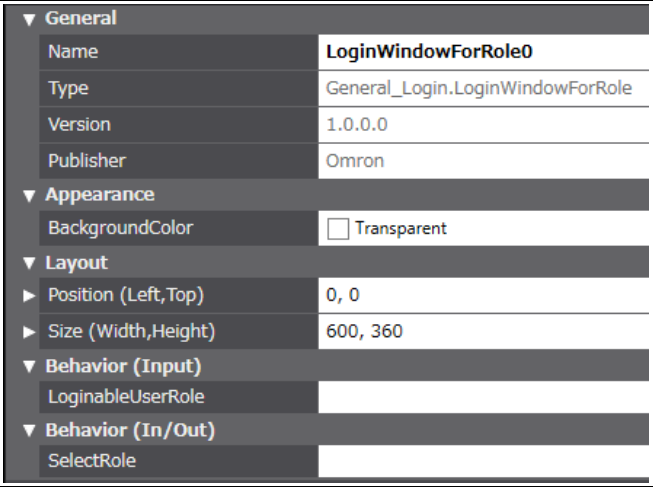
Authority Error	This pop-up appears when the user cannot access to the NA with his/her authority after login.
	

User I/F Specification		
No	Part	Description
1	Data Display	List of user authorities which permitted to login
2	Button	The window is switched to the Login Window by this button.
Layout		
Property	Default	Description
Position (Left, Up)		Fixed
Size (Width, Height)		Fixed

● 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)	
Type	Object type. Not changeable.	-	-	
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 object on 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	（600,360）
Width	Width of object	Direct input Spin button	Numeric Numeric	600
Height	Height of object。	Direct input Spin button	Numeric Numeric	360
Input				
LoginableUserRole	User authority permitted to login	Variable specification	String(4)	(Blank)
Input/Output				
SelectRole	Authority being selected.	Variable specification[3]	Boolean(19)	(Blank)

Image



1: Transparent
2: The origin of coordinates locates at the top left corner of NA screen.
3: Allocated variables should be retentive.

● Events & Actions

This IAG can detect the event in the table below. Be sure to configure all events and actions in advance.

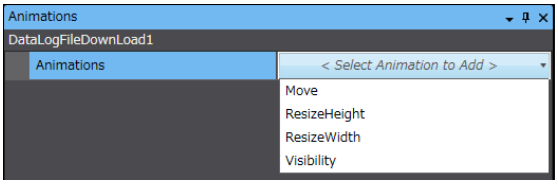
Refer to Chapter 6 “Appendix: How to Use IAG” for details.

Event	Description
LoginSuccessful	Event that occurred when login is succeeded.

● Animations

Basic motions of animation can be defined.

Refer to “Animations” for details.



5-2 LoginButton

5-2-1 Specifications

- External Specification

Object Name	LoginButton
Category	General_Login
Description	When this button is pressed, the following processings are executed: ● Reading out login conditions of the NA. ● Checking login conditions to the designated authority: logged in or not logged in. Detecting the results as different events, and switching to the different pages according to the result.
Function	It makes possible to create an HMI application by using LoginWindowForRole (5-1) together: the application which can skip the login procedure if the user has already logged in with the required authority.
Graphic	This IAG consists of one part. 

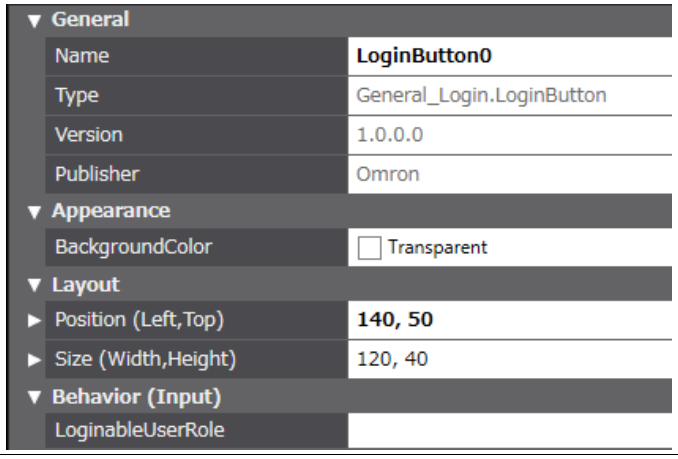
Additional Information

See Chapter 6 “Appendix: How to Use IAG” for the information to use this IAG together with LoginWindowForRole (5-1).

● 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)	
Type	Object type. Not changeable.	-	-	
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 object on 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	（120,40）
Width	Width of object	Direct input Spin button	Numeric Numeric	120
Height	Height of object。	Direct input Spin button	Numeric Numeric	40
Input				
LoginableUserRole	User authority permitted to login	Variable specification	String(4)	(Blank)

Image



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

● Events & Actions

This IAG can detect the events in the table below. Be sure to configure all events and actions in advance.

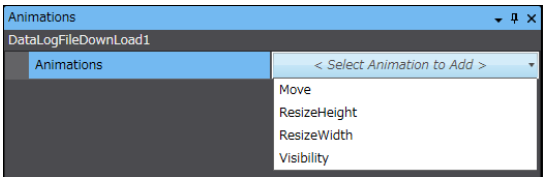
Refer to Chapter 6 “Appendix: How to Use IAG” for details.

Event	Description
ShowLoginWindow	Event occurs when this IAG part is touched without login.
ShowTargetWindow	Event occurs when this IAG part is touched with login.

● Animations

Basic motions of animation can be defined.

Refer to “Animations” for details.



5-3 LoginFeedBackButton

5-3-1 Specifications

- External Specification

Object Name	LoginButton
Category	General_Login
Description	When this button is pressed, the following processings are executed: ● Reading out login conditions of the NA. ● Checking login conditions to the designated authority: logged in or not logged in. Detecting the results as different events, and switching to the different pages according to the result. ● Controlling on/off of the Feedback Lamp
Function	It makes possible to create an HMI application by using LoginWindowForRole (5-1) together: the application which can skip the login procedure if the user has already logged in with the required authority. The difference from LoginButton IAG is that this IAG can control on/off of the lamp.
Graphic	This IAG consists of one part. 

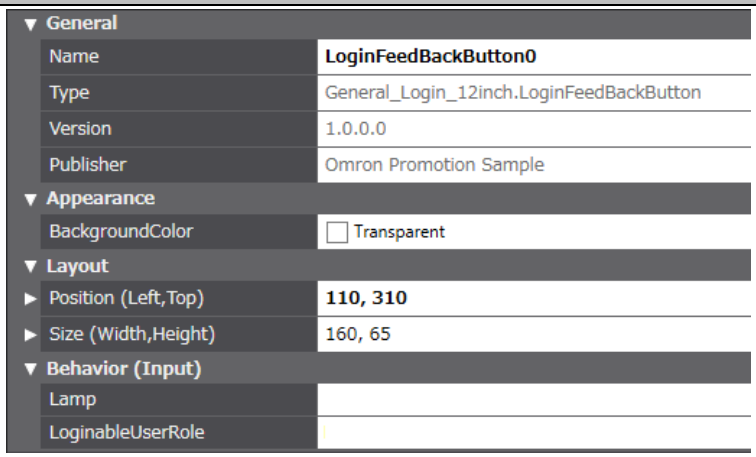
Additional Information

See Chapter 6 “Appendix: How to Use IAG” for the information to use this IAG together with LoginWindowForRole (5-1).

● 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)	
Type	Object type. Not changeable.	-	-	
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 object on 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	（120,40）
Width	Width of object	Direct input Spin button	Numeric Numeric	120
Height	Height of object。	Direct input Spin button	Numeric Numeric	40
Input				
Lamp	Lamp operating condition	Variable specification	Boolean	(Blank)
LoginableUserRole	User authority permitted to login	Variable specification	String(4)	(Blank)

Image



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

● Events & Actions

This IAG can detect the events in the table below. Be sure to configure all events and actions in advance.

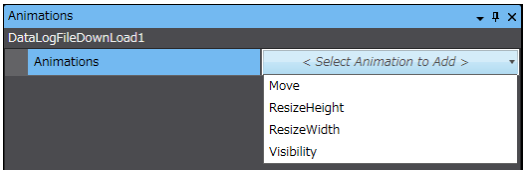
Refer to Chapter 6 “Appendix: How to Use IAG” for details.

Event	Description
ShowLoginWindow	Event occurs when this IAG part is touched without login.
ShowTargetWindow	Event occurs when this IAG part is touched with login.

● Animations

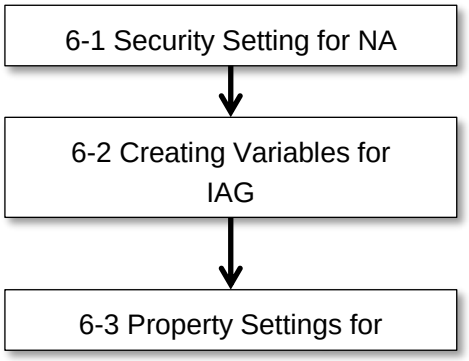
Basic motions of animation can be defined.

Refer to “Animations” for details.



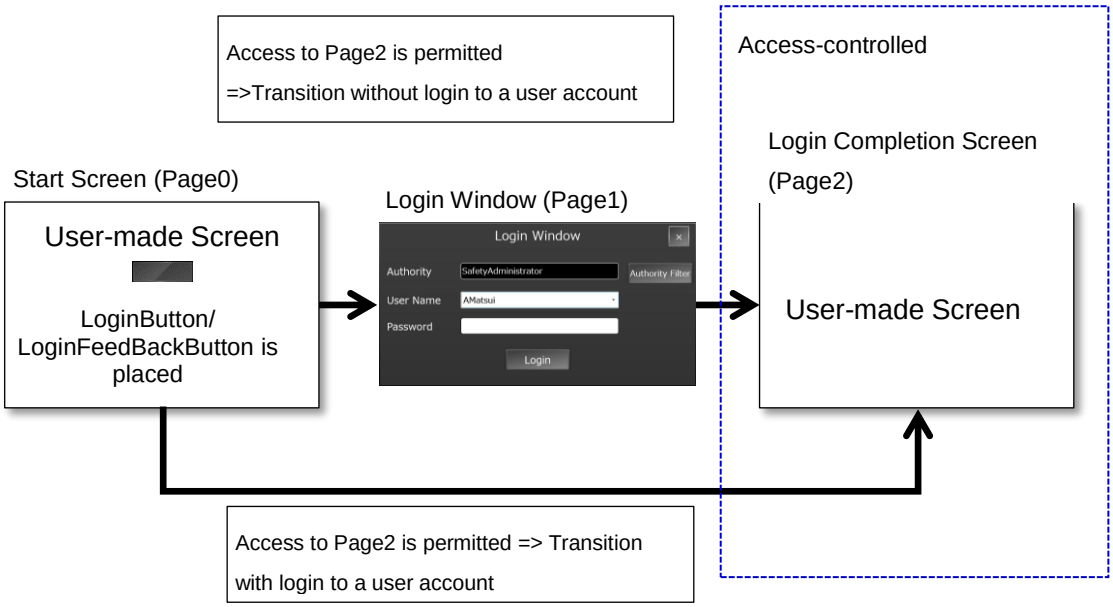
6 Appendix: How to Use IAG

Design with the IAG follows the flowchart below.
Prepare the sample project file of login screen and add this IAG to it in advance.



In this chapter, you can learn how to design screens with the sample.

- Sample Screen/ Screen Transition



- Access Control to HMI for the Sample Screen (Authority and Username)

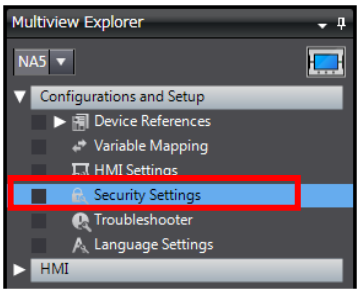
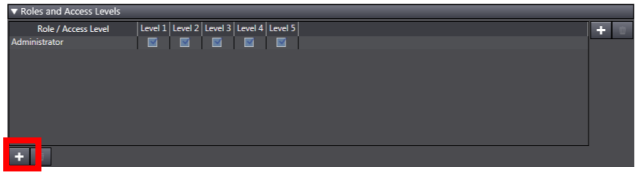
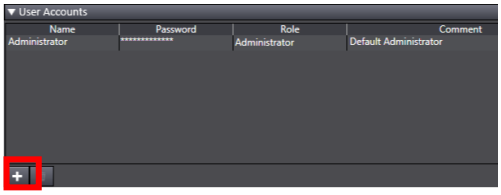
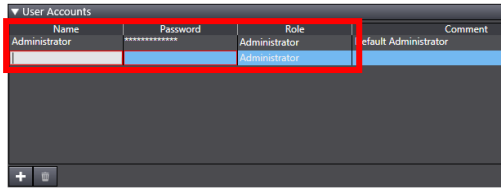
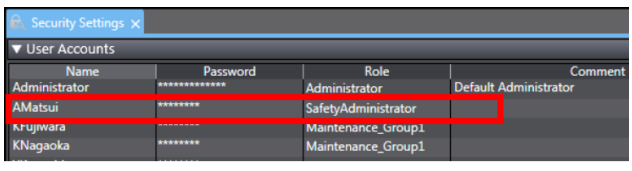
Username	Authority	Password	Page2 Access Right	Remarks
Administrator	Administrator	omron123	Yes	Permitted to access all the pages by default.
AMatsui	SafetyAdministrator	omron123	Yes	Safety program administrator
KFujiwara	Maintenance_Group1	omron123	Yes	PIC of the maintenance department
KNagaoka	Maintenance_Group1	omron123	Yes	PIC of the maintenance department
YKawashima	Maintenance_Guest	omron123	No	Subcontractor of the maintenance department
TChiba	Operator_Group1	omron123	No	Machine operator
CSugano	Operator_Group1	omron123	No	Machine operator

Additional Information

If you log in to the NA every time from Page0 regardless of prior login conditions, switch the page to Page0 with the normal Button object, not using the LoginButton/ LoginFeedBackButton IAG.

6-1 Security Setting for NA

You must set the security setting on the NA before using this IAG.
The following is the security setting procedure.

1. Double-click [Configurations and Setup] – [Security Settings] in Multiview Explorer.	
2. Click the [+] button enclosed in a red square, in [Roles and Access Levels].	
3. Enter an authority title and click to check the access level boxes.	
4. Click the [+] button enclosed in a red square, in [User Accounts].	
5. Enter Name, Password, and Role (authority).	
6. The right illustration is a sample setting. See “Access Control to HMI for the Sample Screen” for details.	

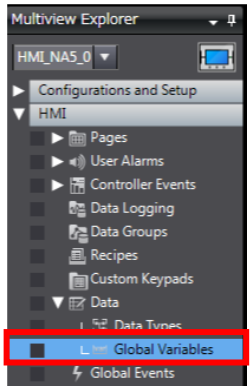
6-2 Creating Variables for IAG

You need to assign NA global variables to each IAG input/output variables before using this IAG.
The global variable setting procedure for NA is described in this section.

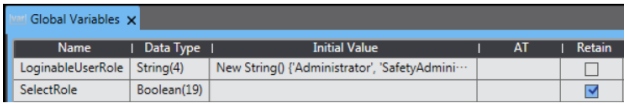
Variable allocation for the sample screen

Variable	Data Type	Default Value	Retention	Remarks
LoginableUserRole	String(4)	New String() {'Administrator', 'SafetyAdministrator', 'Maintenance_Group1', 'Maintenance_Guest', ''}	inactivated	Assigned to all the IAG input variables. Name of the authority that the destination page permits to access is designated in character string as the default.
SelectRole	Boolean(19)	none	activated	Assigned to the input/output variable of the LoginWindowForRole IAG. It is the condition flag for the authority selected in the Authority Filtering Window. Access from other than IAG is prohibited.

1. Double-click [HMI] – [Global Variables] in the Multiview Explorer.



2. Create a variable according to the right illustration.



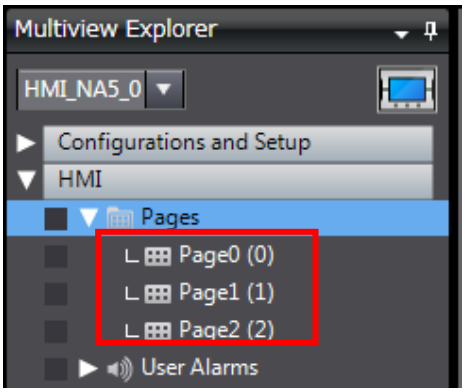
Variable name:
LoginableUserRole」
Data type: String(4)
Default: New String()
{'Administrator',
'SafetyAdministrator',
'Maintenance_Group1',
'Maintenance_Guest', ''}
Retention: inactivated

Variable name: SelectRole
Data type: Boolean(19)
Default: none
Retention: activated

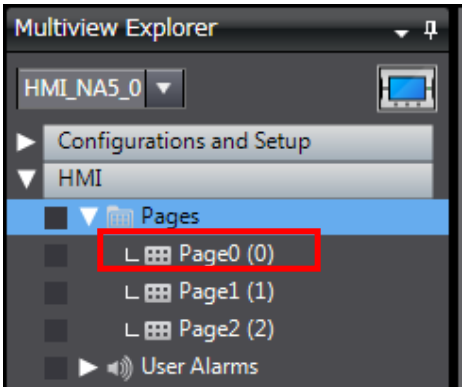
6-3 Property Settings for IAG

The following is the procedure to place the necessary IAG on the screen and to set its properties.

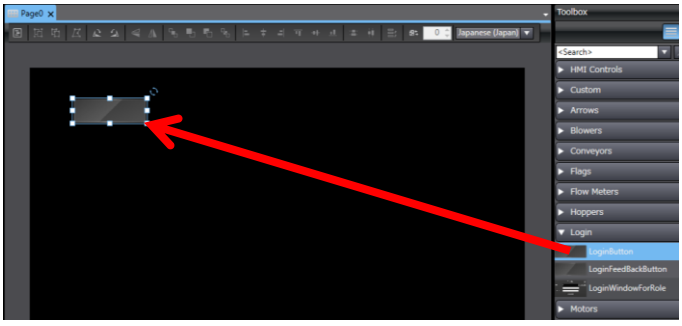
1. Create the pages under [HMI] – [Pages] in the Multiview Explorer. See the right illustration.



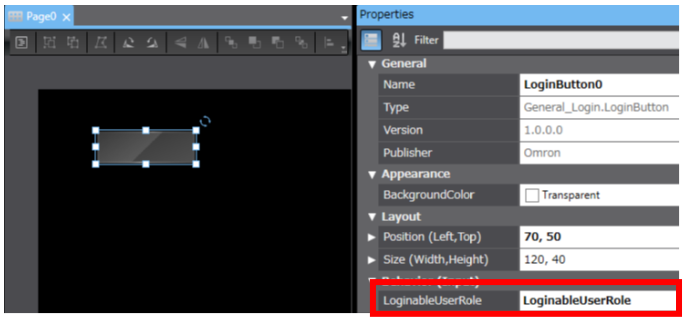
2. Double-click Page0 to open.



3. Place a LoginButton part on the screen.



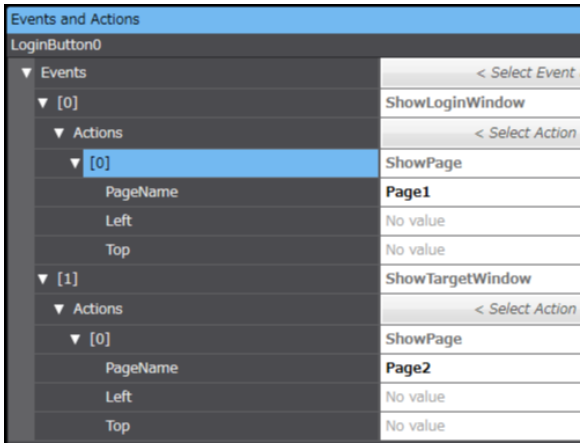
4. Enter *LoginableUserRole* (global variable) in the input variable LoginableUserRole, a property of the IAG part.



5. Configure Events and Actions as shown in the right.

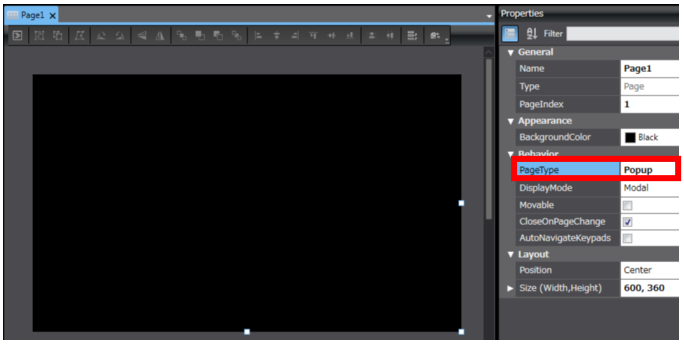
Event [0]:
ShowLoginWindow
Action: ShowPage
PageName: Page1

Event [1]:
ShowTargetWindow
Action: ShowPage
PageName: Page2



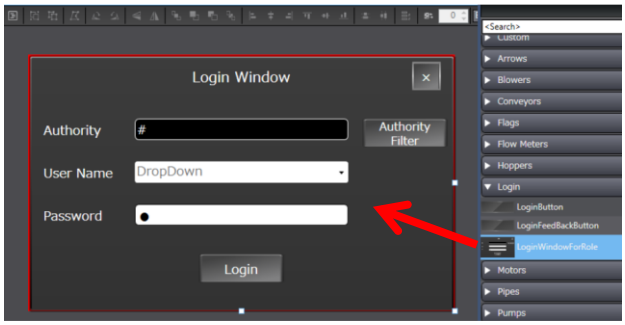
6. Double-click Page1 to open.

7. Select “popup” for Page Type of Page1.



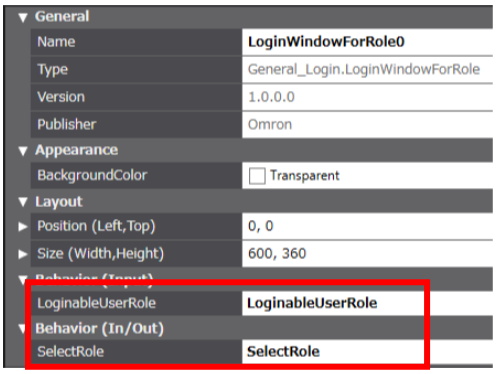
8. Set the screen size of Page1: width is 600, height is 360.

9. Put the LoginWindowForUser part on the screen.



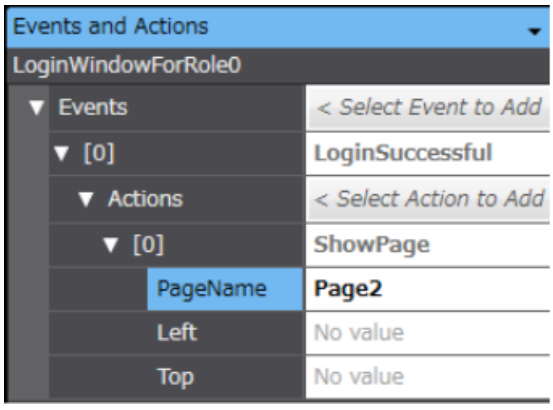
10. Enter the global variable *LoginableUserRole* in the Input box (LoginableUserRole).

Enter the global variable *SelectRole* in the In/Out box (SelectRole).

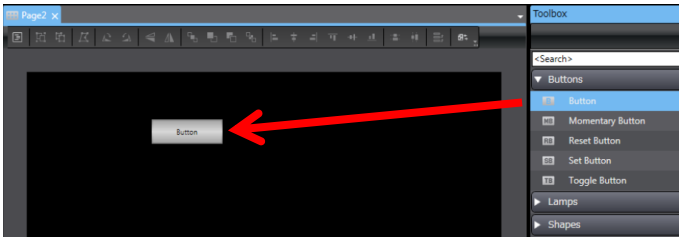
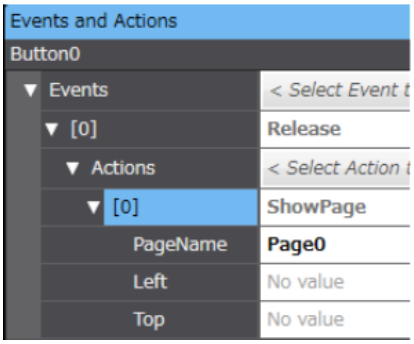


11. Configure Events and Actions of the IAG part as shown in the right.

Event [0]:
LoginSuccessful
Action [0]: ShowPage
PageName: Page2



Login Completion Screen (Page2, in this sample) does not require settings for login.
For your reference, the screen building procedure to switch Page2 to Page0 is shown below.

1. Double-click Page2 to open.	
2. Put a Button part on the screen.	
3. Configure Events and Actions for the Button part as shown in the right. Event [0]: Release Action [0]: ShowPage PageName: Page0	

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Revision History

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01	May 2019	First edition
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