GOCToolKit V3 Installation and Quick Start Guide

GOCToolKit V3 Installation and Quick Start Guide

Published Date : January 2024 Doc No : N18006AAMH05 Version: V4.0

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1 Scope of Document

This is a GOC tool kit installation and quick start guide for programming GOC43 PLC.

References

N18006AAMH01 Graphic Operation Controller User Manual N18006AAMH02 GOC Main Unit (GC43MH-XXMR-D) Installation Manual N18006AAMH03 GOC Main Unit (GC43MH-XXMT-DS) Installation Manual N18006AAMH04 GOC Main Unit (GC43MH-XXMT-DSS) Installation Manual

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2 Setup requirements

Hardware setup requirement:

Programming of GOC43 is possible through built-in Ethernet port interface provided on its backside as shown below.



Software setup requirement:

Before installing the toolkit, ensure that the following system requirements are satisfied.

Processor	Dual Core
Disk space	2 GB
RAM memory	4GB
Screen resolution	800 x 600 or Higher
Platform	Windows® 10/ 11 (32/64 bit)
Ethernet interface	RJ 45

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3 GOC Tool Kit V3 Installation

For installation of GOCToolKit V3, follow the steps as provided below.

- 1. Confirm the requirement covered under 'Software setup requirement' section.
- 2. Download 'GOCToolkit V3.exe' 🔄 GOCToolkit V3.exe setup from MEI website.
- 3. Run 'GOCToolkit V3.exe' on your PC. During execution of .exe file.
- 4. Follow installation steps as below,

d GOCToolkit V3 - InstallShield Wizard	X
Welcome to the InstallShield Wizard for GOCToolkit V3 The InstallShield/P3 Wizard will install GOCToolkit V3 on your	
computer. To continue, dick Next.	
WARNING: This program is protected by copyright law and international treaties.	
	In case if user uninstalls previous ToolKit versions from PC and updates system with latest ToolKit setup, then before running 'GOCToolkit V3.exe'. It is mandatory to uninstall CODESYS 3.5.14.10 from PC and delete all files/ folders
<back next=""> Cancel</back>	from below paths
Click "Next" button	C:\Program Files (x86)\CODESYS 3.5.14.10 C:\Users\ <login.name>\AppData\Roamino\CODESYS</login.name>
\	C:\ProgramData\CODESYS
🛃 GOCToolkit V3 - InstallShield Wizard	Folder "CODESYS 3.5.14.10" should be empty before latest
Destination Folder Click Next to install to this folder, or click Change to install to a different folder.	
	File Home Share View
C: (Program Files (x86) (CODESYS 3.5.14.10) Change	
	Clipboard Organize New Open Sele ← → ∨ ↑ → This PC → Windows (Ci) → Program Files (x80) → CODESYS 3.5.14.10 →
	This PC
	3 DO Objects CODESYS 26-10-2020 20:00 File folder
	Destrop Packages 26-10-2020 20:00 File folder Tamp 26-10-2020 20:00 File folder
	Downloads Music
InstallShield	videos 4 Windows (C:)
< Back Next > Cancel	
Click "Next" button	



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	2		
🔀 GOCToolkit V3 - InstallShiel	d Wizard X		
	InstallShield Wizard Completed The InstallShield Wizard has successfully installed GOCToolkit V3. Click Finish to exit the wizard.		
	Show the Windows Installer log Back Finish Cancel	Click on 'Finish' to complete ToolKit V3 installation	

This completes GOCToolKit V3 installation on PC/ laptop.

After successful installation, 'GOCToolKit V3' menu gets added under start menu as shown below.



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4 Quick start

This section explains,

- 1. Creation of a new project using GOC43 project template
- 2. Hardware configuration
- 3. Create a simple ladder program
- 4. Create a simple HMI program
- 5. Download and online operations

4.1 Creation of a new project using GOC43 project template

Open CoDeSys 3.5. Click on menu 'File' \rightarrow New Project, following window gets pop up.

Select category 'Projects' and click on template 'GOC43 project'.

Click OK to save project.

管 New Pro	ect	×
Categories	Templates:	
Lib	aries ects	
	GOC43 project Standard project	
A project w	h one GOC main unit, one application and empty implementation of PLC_PRG.	
Name:	Untitled1	Add project name
Location:	D:\Projects Data\GOC43\GOC43_User Documents ~	
		Select location to save project
	OK Cancel	

After saving project below 'GOC 43 Project' window gets pop up.



Refer document 'N18006AAMH07 GOC43 Version Compatibility' (Version: 2.0) for more details.

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TestProject.project - CODESYS	-	o ×
File Edit View Project Build Online Debug Tools Window Help		
○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○		
Devices v 4 X		
Testholect		
🗣 🗃 PLC Logic		
😑 💿 Application		
📓 GVL		
📓 ImplicitiOList		
Timagepool		
- 📶 Ubrary Manager		
- I PLC_PRG (PRG)		
Task Configuration		
i i i i i i i i i i i i i i i i i i i		
- W1 visucents, visu_erg		
Keys (FDs)		
IDExtensions (IDExtensions)		
↓ K <empty></empty>		
⊂ K <empty></empty>		
G (COMExtension)		
K <empty></empty>		
i Ehernet (Ehernet)		
Se Devices To POLIs		
Message - Total 0 error(s), 0 warming(s), 0 message(s)		
Lastbuikt 😧 0 🕐 0 Precomple: 🗸 🦛 Project us	er: (nobody)	0

After clicking OK, following 'Devices' tab gets open as shown below.

Click on 'Device(GC43)' as shown below.

TestProject.project - CODESYS			- 0 ×
File Edit View Project Build Online	Debug Tools Window He	lp l	7
[1] 🖉 🖬 📾 🗠 적 3 🖷 📾 🛤 15 🐴	(4) 11 11 12 12 12 12 12 12 12 12 12 12 12	- 13 田 3 (13)	
Devices - 7 X	Device X		-
Devices • • • • • • • • • • • • • • • • • • •	Average and a set of the set	San nethod Gatewy * Device *	
Services POUs		Your device can be secured. Learn more	
Messages - Total 0 error(s), 0 warning(s), 0 messag	e(s)		
		Last build: 🗿 0 😗 0 Precomple: 🗸 🖓	Project user: (nobody)

This completes project creation and device (Main unit) selection.

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4.2 Hardware configuration



1. For Hardware configuration, click on device *Device(GC43)* as shown below.

2. On Hardware configuration tab, back side view of Main unit is shown as below.



Red highlighter denotes Main unit is selected.

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3. To update the device, right click on Main unit area opens, Update Device window.

Update Device				×	
Name: Device					
Action:					
O Append device	○ Insert device ○ Plug	device 🔘 L	Ipdate device		
String for a fulltext s	earch	Vendor:	Mitsubishi Electric India	~	
Name	Vendor	Version	Description		
GC43	Mitsubishi Electric India	0.0.0.13	16 Digital Input + 16 Digital Output		
Group by catego Name: GC4 Version: 0. Order Num Descriptio	ny Display all versions stabiliti Electric India stabiliti Electric India stability of the stability of t	(for experts o	nly) Display outdated versions		
Update and try to Device	preserve most informat	ion of			Coloct dowigo and click
(You can sele	ct another target node in th	e navigator w	hile this window is open.)		on 'Update Device'
			Update Device	Close	· · ·

- 4. To plug an IO extension unit, below steps can be followed.
 - 1. Back side view shows IO1 slot, IO2 slot and COM slot where user can plug extension unit.
 - 2. Click on slot area to highlight selected slot.
 - 3. Do right click on selected slot, to plug extension as shown below.



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5. Click on context menu 'Plug Device' to pop up 'Plug Device' window as shown below.

Plug Device				×				
Artion:	rt device) Plug dev	rice 🔿 Updat	e device					
String for a fulltext search		Vendor: Mits	ubishi Electric India	~				
Name	Vendor	Version	Description					
GC-4UAD-12E GC-4UAD-16 GC-6EYR-ES GC-8ET-ESS GC-8EX-ES	Mitsubishi Electric Ind Mitsubishi Electric Ind Mitsubishi Electric Ind Mitsubishi Electric Ind Mitsubishi Electric Ind	dia 0.0.0.1 dia 0.0.0.1 dia 0.0.0.2 dia 0.0.0.2 dia 0.0.0.2	4 Channel Universal Analog 4 Channel Universal Analog This is 6Pt. Relay output ext This I/O extension unit(GC-8 This is 8Pt. 24VDC Digital Inp	/oltage/ /oltage/ ension u ET-ESS) ut exter	device require button	as per ement and o 'Plug Devi	click lce'.	C
Group by category Mame: GC-4UAD-12 Vendor: Mitsubishi E Categories: Version: 0.0.0.1 Order Number: GC Description: 4 Cha to 150°C) Input, 12-	Display all versions (for lectric India -4UAD-12 nnel Universal Analog Vo bit	experts only)	Display outdated versions					
Plug selected device into <empty> (You can select anoth</empty>	the slot er target node in the na	vigator while t	nis window is open.)					
			Plug Device C	lose				

6. After plugging IO extensions, if user requires to plug/update or delete device as per application requirement, right click on extension unit.

For example, IO1 slot extension unit is selected and right clicked as shown below.



This completes one method for plugging IO extensions and COM extensions.

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Alternately, user can plug extension devices in respective slots (*IOExtensions* and *COMExtension*) in Device tree. Follow the steps below.

- 1. Right click on *<Empty>* slot to pop up context menu.
- 2. Click on *Plug Device*. *Plug Device* dialog shows list of extension devices supported for the selected slot.
- 3. Select extension device and double click on it or click on button *Plug Device* to attach it to selected slot.

After plugging, default name of I/O extension unit as IOE1<UnitOrderingCode> and IOE2<UnitOrderingCode>.

Devices - 4	ĸ							
Test Project	•		🕤 Plug	Device				\times
Device (GC43)								
PLC Logic		Name: GC_4A_12						
= O Application		Action:						
GVL			O Ann	end device 🔘 Inser	t device 🔘 Plug d	evice 🕜 Undate d	device	
ImplicitIOList			Comp		Contra Contrago	O optimie		
Imagepool			String f	for a fulltext search		Vendor: Mitsub	ishi Electric India	\sim
Library Manager								-11
Fight Tack Configuration			Name	e	Vendor	Version	Description	
iask Configuration			B 🛍	Miscellaneous				
A DIC DOC				GC-4A-12	Mitsubishi Electric I	ndia 0.0.0.1	2 Channel Analog Voltage/ Current Input, 3	16 t
			2-	GC-4DA-12	Mitsubishi Electric I	ndia 0.0.0.1	4 Channel Analog Voltage/Current Output,	12
				GC-4UAD-10	Mitsubishi Electric I	ndia 0.0.0.1	4 Channel Universal Analog Voltage/Curren	it/P
TextList				GC-4UAD-10E	Mitsubishi Electric I	ndia 0.0.0.1	4 Channel Universal Analog Voltage/Curren	it/P
😑 👘 Visualization Manager				GC-4UAD-16	Mitsubishi Electric I	ndia 0.0.0.1	4 Channel Universal Analog Voltage/ Currer	nt/i
TargetVisu			-	GC-6EYR-ES	Mitsubishi Electric I	ndia 0.0.0.2	6Pt. Relay output, 500mA per Output, 220	VAC
Home Home				GC-8ET-ESS	Mitsubishi Electric I	ndia 0.0.0.2	4 Pt. 24VDC digital inputs, sink/source + 4 I	Pt.
Keys_LEDs (Keys_LEDs)			L L	GC-8EX-ES	Mitsubishi Electric I	ndia 0.0.0.2	8Pt. 24VDC Digital Input. sink/source	
IOExtensions (IOExtensions)								
- K <empty></empty>	de la	-	<					>
ι ζ <empty></empty>	<u>w</u>	Cut	Gro	up by category 📃 D	isplay all versions (f	or experts only)	Display outdated versions	
COMExtension (COMExtension)	L.	Сору						-1
K <empty></empty>	r B	Paste		Name: GC-4A-12 Vendor: Mitsubishi Ek	ectric India			
Ethernet (Ethernet)	×	Delete		Categories:			meter indefinition	
	æ	Properties		Version: 0.0.0.1 Order Number: GC-	4A-12		00-41-12	
	1000	Add Object		Analog Voltage/Curre	nel Analog Voltage/ C ent output 12 bit.	urrent Input, 16 bit	s and 2 Channel	
	6	Add Folder						
	-	Plug Device						-1
		Dirable Device	Plug s	elected device into	the slot			
		Disable Device	<emp< td=""><td>ty></td><td></td><td></td><td></td><td></td></emp<>	ty>				
		Download missing device description	9 (You can select anothe	r target node in the i	navigator while this	s window is open.)	
	0.	Edit Object						
		Edit Object With					Plug Device Close	
		Edit IO mapping						
		Import mappings from CSV	Here	. defaul	t name	of T/O		
		Export mappings to CSV	11010	, actual		011/0	43 10)	
		Cinculation	exte	nsion ur	nit is l	OEI (GC-	-4A-12)	
	4	Simulation	in d	levice tr	cee.			
<	>							

This completes hardware configuration selection

For parameter configuration, of individual Main unit variants and IO extension units.refer N18006AAMH01 Graphic Operation Controller User Manual.

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7. I/O Mapping

For GOC43, I/O memory map is fixed. Main unit consumes input memory %IB0, %IB1 and output memory %QB0, %QB1. I/O Mapping tab shows digital Inputs and outputs as shown below.

Variable	Mapping	Channel	Address	Type	Default Value	Unit	Descripti	ion
E M DI MAIN	*	Digital Inputs	0 %IW0	WORD	0		Input	
DI MAIN 0		100	%DX0.0	BOOL	FALSE			
DI MAIN 1	10	101	%DX0.1	BOOL	FALSE			
DI MAIN 2	***	102	%DX0.2	BOOL	FALSE			
DI MAIN 3		103	%DX0.3	BOOL	FALSE			
DI MAIN 4	10	104	%DX0.4	BOOL	FALSE			
DI MAIN 5	***	105	%DX0.5	BOOL	FALSE			
DI MAIN 6		106	%DX0.6	BOOL	FALSE			
- DI MAIN 7	***	107	%DX0.7	BOOL	FALSE			
DI MAIN 8	***	108	%DX1.0	BOOL	FALSE			
👋 DE MAIN 9	***	109	%DX1.1	BOOL	FALSE			
- M DI MAIN 10	10	I 10	%DX1.2	BOOL	FALSE			
DI MAIN 11	10	I11	%DX1.3	BOOL	FALSE			
DI MAIN 12	10	112	%DX1.4	BOOL	FALSE			
DI MAIN 13	***	I13	%DX1.5	BOOL	FALSE			
DI MAIN 14	***	114	%DX1.6	BOOL	FALSE			
DI MAIN 15		115	%IX1.7	BOOL	FALSE			
B V DO MAIN		Digital Outputs	%QW0	WORD	0		Output	
DO MAIN 0		Q00	%QX0.0	BOOL	FALSE			
DO MAIN 1	***	Q01	%QX0.1	BOOL	FALSE			
DO MAIN 2	***	Q02	%QX0.2	BOOL	FALSE			
DO MAIN 3	10	Q03	%QX0.3	BOOL	FALSE			
DO_MAIN_4	***	Q04	%QX0.4	BOOL	FALSE			
DO_MAIN_5	***	Q05	%QX0.5	BOOL	FALSE			
DO_MAIN_6		Q06	%QX0.6	BOOL	FALSE			
DO_MAIN_7		Q07	%QX0.7	BOOL	FALSE			
DO_MAIN_8	***	Q08	%QX1.0	BOOL	FALSE			
DO_MAIN_9		Q09	%QX1.1	BOOL	FALSE			
DO_MAIN_10		Q10	%QX1.2	BOOL	FALSE			
DO_MAIN_11		Q11	%QX1.3	BOOL	FALSE			
DO_MAIN_12		Q12	%QX1.4	BOOL	FALSE			
DO_MAIN_13		Q13	%QX1.5	BOOL	FALSE			
DO_MAIN_14		Q14	%QX1.6	BOOL	FALSE			
DO_MAIN_15		Q15	%QX1.7	BOOL	FALSE			
				Darat m	Alumia	undate	undahlanı	the second double

Predefined symbolic names (with prefix as '_') are global variables assigned for each input and output.

For input I00, symbolic name is _DI_MAIN_0 and address is %IX0.0.

Prefix is $_DI_$ and text MAIN_0 indicates that it is input IO0 of Main unit.

Change the symbolic name after double click on name in Variable column. The dialog below pops up to confirm the change in name throughout the Application .

Automatic Refactoring: Rename			×	
You did rename the variable _DI_M adapt all references within the proje	AIN_1 to _DI_Station. E act?	Do you want to	automatically	Click Yes to accept
Configure Refactoring	Yes	↓ No	Cancel	name.

In Online mode,

Column Default Value shows IO values.

Debug \rightarrow Write values (Ctrl + F7) allows user to write values to outputs by modifying values in *Prepared* Value column.

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8. IEC Objects

IEC objects are pre-defined global variables ((with prefix as '_') which consists of system variables and variables related to various functions.

The dialog below shows offline view.

			ariable
	Variable	Mapping	Туре
ardware Configuration		*	Base_Analog
0		*	HSC0
9	🖗 _HSC3	*	HSC3
C Settings	🧼 🧼 _SysvarCPU	***	SysvarCPU
	SysvarDiskMemory	***	SysvarDiskMemory
arameters Configuration	SysvarETH	**	SysvarETH
	🧼 🧳 _SysvarHMI	**	SysvarHMI
ackup	SysvarMemPtr	*	SysvarMemPtr
	SysvarRTC	**	SysvarRTC
0 Mapping	SysvarSDCard	**	SysvarSDCard
C Objects	🧼 🧳 _SysvarVersionInfo	***	SysvarVersionInfo

User can monitor and modify values of IEC objects in Online mode.

Using tab "IEC Objects", user can monitor and set system variables in CoDeSys online mode.

9. PLC Settings

User can make the basic settings like handling of inputs and outputs and the bus cycle task.



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4.3 To create simple ladder program

In this section, we can write a PLC code using ladder editor as an exercise.

- Add new POU with ladder language
- Add a variable 'Start' and 'Motor'
- Switch ON 'Motor' if 'Start' is ON for 1 sec or more.
- Call POU in PLC_PRG

Adding new POU with ladder language

Devices 👻 🔻 🗙		ToolBox 👻 🕂 🗙
= m Device (GC43)		
	Add POU ×	
ORight click on application		
and execute Add object >	Create a new POU (Program Organization Unit)	
P00		
Add Object • ? DUT	News	
📑 Edit Object 🔄 Image Pool	Name:	the POU
Edit Object With 🛩 Interface	Муроо	
Login POU POU POU for implicit checks	Туре	
TargetVisu	Program Sele	ct type as
Home Keys LEDs (Keys LEDs) Keys LEDs (Keys LEDs)	Function Block	ant
IDExtensions (IDExtensions)	C tale da	
- K <empty> - K <empty></empty></empty>	Extends:	
COMExtension (COMExtension)	Implements:	
Ethernet (Ethernet)	Final Abstract	
	Access specifier:	
	~	
	Method implementation language:	
	Continuous Function Chart (CFC) $$	
	Genetion Asolast programming	
	Ladder Logic Diagra	am (LD)
	Return type.	····· (/
	Implementation language:	
	Ladder Logic Diagram (LD) \checkmark	
		_
	GClick ADD Add Cancel	

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Click on "MyPOU (PRG)" to open as below.



Add variable 'Start' and 'Motor'

For adding new element (here, contact) in ladder network, drag and drop respective element from toolbox to editor as shown below.



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A view after adding new contact element in editor is as below,



Similarly, user can add coil element to ladder network.



A view after adding new coil element in editor is as below,



After adding elements to ladder network, user can assign variable to element as shown below.

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Similarly, assign variable to coil element as 'Motor'.



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Switch ON 'Motor', if 'Start' is ON for 1 sec.

To turn 'Motor' ON when 'Start' is ON for 1 sec, it is required to add timer function block in ladder network as shown below.





After pressing enter, auto-declare dialogue opens to declare timer FB instance.

Auto Declare		×	Change Name and comment
Scope: VAR ~	Name: TON_0	Type: TON >	OK to close dialogue.
MyPOU [Application]			
Flags: CONSTANT RETAIN PERSISTENT	Comment:	^ ~	
		OK Cancel	

This completes assigning names and variables to added elements.

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Assign variables to function block instance 'TON_0' as shown below.



Now call POU named as "MyPOU" in PLC_PRG.

Do double click on PROGRAM type of POU PLC_PRG to open it in editor.



Drag and drop "MyPOU" to PLC code and the view after adding "MyPOU" in PLC_PRG is as below.

			A	V		
1		My POU		*		
	 					

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n 		

4.4 To create simple HMI program

In this section, we can see how to do HMI programming in CoDeSys 3.5.

Execute Device (GC43) >> Application >> Visualization Manager, for HMI function settings and to drag and drop HMI objects from visualization toolbox.



For setting HMI functions, click on "Visualization Manager",

Do not modify default settings available on "Visualization Manager" tab as below. It may cause malfunction of HMI functionality.

Devices + + X	🕐 PLC_PRG 🛛 🙀 Visualization Manager 🗙 🚰 TargetVisu 🏼 🖓 Hor	me	 Visualization ToolBox
= 💮 MyProject	🕘 Settings 🎒 Dialog settings 🗔 Default Hotkeys 🕘 Visualizations 🐒 User me	anagement 📆 Font settings	
= III Device (GC43) = III PLC Logic	General settings	Additional settings	
= O Application	Use uncodestrings	Activate multitouch handling	
GVL	Case construction service	Activate standard keyboard handling	
Imagepool		Paint disabled elements grayed out	
Lbrary Manager	Style settings Selected style: East style: 1.5.14.0 (%.Geart Software Solutions Gridel)	Call after visu initialization:	
PLC_PRG (PRG)	Display all versions (for experts only)	Program or function call, e.g. Visulnit();	
🖷 🥵 MainTask	Preview:	Advanced Advanced	
E PLC_PRG		Headline Uvisibe	
	Rediobutton		
TextList	Radiobutton		
TaroetVisu	[0,INDEX] [1,INDEX] [
Home (-	
Keys_LEDs (Keys_LEDs)	00		
C <empty></empty>			
C (Empty>		P at	
 COMEXTENSION (COMEXTENSION) K <empty></empty> 			
Ethernet (Ethernet)			
	Selected language:	~	
			0 Hame



Do not modify default settings provided on "Visualization Manager" tab and "TargetVisu" tab.

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Click on "TargetVisu" tab, to view further visualization settings such as start visualization, update rate, scaling options, default text input etc.



Click on 'Home' screen and add HMI elements by drag and drop as shown below.



Similarly, user can drag and add elements covered in other groups such as Common controls, Measurement controls, Lamps/Switches/Bitmaps, Special controls, Date/time controls etc.

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For setting properties of individual element, select element on screen so that element 'Properties' window gets open in toolbox as shown.



Also, user can add multiple screens up to 64 screens by executing Device (GC 43) >> Application [do right click] >> Add Object >> Visualization.



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4.5 To download project and Online operations

For downloading project to PLC, it should be error free.

Compile project by executing menu Build >> Clean all, Build >> Rebuild. This provides user list of errors (if any), warnings and information messages under "Messages" window.

After successful compilation of project, follow below steps,

- 1. Power ON and connect GOC43 device to PC via Ethernet.
- 2. Click on Device (GC 43) >> Communication settings as shown below.

Communication Settings Scan network Hardware Configuration Files Log PLC Settings Parameters Configuration Backup I/O Mapping Information	rk Gateway • Device • Gateway • Gateway• IP-Address: localhost localhost Port: 1217 Select Device Select the network	✓ MEL-PC-19-4175	×
Hardware Configuration Files Log PLC Settings Parameters Configuration Backup I/O Mapping Information	Gateway-1 IP-Address: localhost Port: 1217 Select Device Select the network	MEI-PC-19-4175	×
Parameters Configuration Backup I/O Mapping Information	Gateway-1 IP-Address: localhost Port: 1217 Select Device Select the network	✓ MEI-PC-19-4175	 X
Backup I/O Mapping Information	localhost Port: 1217 Select Device Select the network	nath to the controller.	×
I/O Mapping Information	Select the network	path to the controller:	
Your dev	ce can be secured. Learn mo	1 [076B.B00A] Device Name: GC43MH-32MR-D Device Address: 076B.B00A Block driver: UDP Number of channels: 1 Target ID: 160D 0002 Target Name: 4096 Target Yendor:	Scan network to Wink Update connected device.

- 3. Execute menu Online >> Login (Alt + F8), this opens confirmation dialogue to start project downloading
- 4. After successful downloading, execute menu Debug >> Start (F5) to put device in RUN mode.

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GOCToolKit V3 Installation and Quick Start Guide

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