



Initial Start-Up of an EtherNet/IP™ Device



Operating Instructions

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1. Notes for the User

These instructions describe the integration of an EtherNet/IP device into an existing network and are intended to provide to the greatest possible extent general assistance in incorporating EtherNet/IP products into a control environment. In their default configurations, all wenglor products with EtherNet/IP protocol require a DHCP server in order to retrieve the required network data.

2. Safety Precautions

- · Read the operating instructions carefully before using the utilized products.
- Installation, initial start-up and maintenance of the described products may only be carried out by qualified personnel.
- The operating company must comply with local safety regulations.

3. General Note

This document is intended to explain the incorporation of devices with Ethernet/IP interface into a controller as an example. The description is based on an Allen Bradley CompactLogix5323 controller (Allen Bradley 1769-L23E-QB1). wenglor sensoric does not offer any guarantee that the contents of this description are correct and/or complete. The instructions are simply intended to visualize a customary procedure which, as required, can be applied to other controllers or sensors and actuators with EtherNet/IP interface for which an EDS file is a available. Device-specific adaptation of products from other manufacturers is not dealt with in this version. Please refer to instructions provided by the respective manufacturer in this regard.

4. Incorporating an EtherNet/IP Device into the Work Environment

The first step involves adding a new controller to the RSLogix5000 software. Select "New" from the "File" menu and select 20 under "Revision", because this is the only variant which permits the incorporation of EDS files. Enter a project description to the "Description" field (see figure1). Continue then with the Rockwell Automation EDS wizard (see figure 2). The wizard can be invoked by clicking "EDS Hardware Installation Tool" in the "Tools" menu.

New Controller			X
Vendor:	Allen-Bradley		
<u>T</u> ype:	1769-L23E-QB1 CompactLogix5323E-QB1 Controller	•	ОК
Re <u>v</u> ision:	20 👻		Cancel
	Redundancy Enabled		Help
Na <u>m</u> e:	wenglor_demo		
Description:	wenglor demonstration project	*	
		-	
<u>C</u> hassis Type:	<none></none>		
Sl <u>o</u> t:	Safety Partner Slot: <none></none>		
Cr <u>e</u> ate In:	C:\RSLogix 5000\Projects		Browse
Security Authority:	No Protection	•	
	Use only the selected Security Authority for Authentication and Authorization		

Figure 1: New Controller





Figure 2: EDS Wizard

• The second step involves importing an EDS file by selecting the "Register an EDS file(s)" option (see figures 3, 4, 5, 6, 7 and 8). Select the appropriate EDS file for the respective product and implement it accordingly.

Options Wha	at task do you want to complete?
B	 Register an EDS file(s). This option will add a device(s) to our database.
	Unregister a device. This option will remove a device that has been registered by an EDS file from our database.
R	C Create an EDS file. This option creates a new EDS file that allows our software to recognize your device.
	C Upload EDS file(s) from the device. This option uploads and registers the EDS file(s) stored in the device.
	< Back Next > Cano

Figure 3: Registering the EDS

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KWEII Automation's EDS Wizard		L
Registration Electronic Data Sheet file(s) will be Automation applications.	added to your system for use in Rockwell	Y
Register a single file		
C Register a directory of EDS files	□ Look in subfolders	
Named:		
E:\EtherNetIP\EDS_files\eds\OCP162	2P0150E.eds Browse	e
• If there is an icon file (.ico) with then this image will be associated	ith the same name as the file(s) you are register ited with the device. To perform an installation test on the file(s).	ing click Next
• If there is an icon file (.ico) with then this image will be associa	ith the same name as the file(s) you are register ited with the device. To perform an installation test on the file(s).	ing click Next

Figure 4: Registration

ockwell Automation's EDS Wizard	8
EDS File Installation Test Results This test evaluates each EDS file for errors in the EDS file. This test does not guarantee EDS file validity.	V
Et Installation Test Results e:∖ethemetip\eds_files\eds\ocp162p0150e.eds	
View file < Back Next >	Cancel

Figure 5: Installation Test Results



Rockwell Automation	n's EDS Wizard
Change Graphic You can char	ge the graphic image that is associated with a device.
	Product Types
Change icon	Communications Adapter OCP162P0150E
	< Back Next > Cancel

Figure 6: Icon

Rockwell Automation's EDS Wizard	<u> </u>
Final Task Summary This is a review of the task you want to complete.	
You would like to register the following device. OCP162P0150E	
< Back	Next > Cancel

Figure 7: Final Task Summary

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Rockwell Automation's EDS Wiz	ard	8
	You have successfully completed the EDS Wizard.	
	Finish	

Figure 8: Finished

• All existing network participants are listed in the "Who's Active" network overview, which can be found under "Communication" (see figure 9). This makes it possible to determine whether or not all connected network participants have been detected.

Autobrowse Refresh	
- 🗐 Workstation, DE-DE-SE-88	<u>G</u> o Online
윤-꿂 Linx Gateways, Ethernet 뉴-꿇 AB ETHP-1. Ethernet	Upload
172.17.47.1, ZAC50EN02, ZAC50EN02 172.17.47.2, 231.1769-123E-0B1 Ethernet Port 1769-123E-0B1 Ethernet Port	Download
172.17.47.3, OY2TA104P0150E, OY2TA104P0150E	Update <u>F</u> irmware.
	Help
ith: AB_ETHIP-1	Set Project Path
ith in Project: <none></none>	Clear Project Pat

Figure 9: Who's Active



 "Ethernet" must then be selected in the "Controller Organizer" under "I/O Configuration" and the utilized controller, after which the context menu is opened by right clicking. Select "New Module" from the context menu (see figure 10).

- 10	Favorites & Add-On & Safe	ety & Alarms & Bit & Timer/Counter & Input/Output & Compare & Compute/Math & Move/Logical & File/Misc. & File/Shift & Sequencer & Program Control
Controller Organizer	+ 0 ×	
Controller Organizer Controller Seak Handler Controller Seak Handler Controller Seak Handler Controller Seak Handler Controller Seak Handler Controller Seak Handler Controller Seak Controller Seak Cont	IEN6	ey (, Aama, K. B. & Teorificanter, & Inpublished, & Company & Company Math, & Novakapon, & Pinellan, & FineSolt, & Segandor, & Pineyan Contra,
<		
Create a module		U

Figure 10: Controller Organizer

• The connected wenglor EtherNet/IP products are then displayed under "Select Module Type" and "Module Discovery" (see figure 11). Products can be added to your favorites by right clicking the respective device (see figure 12). These products are then listed in the "Favorites" tab (see figure 13).



Figure 11: Module Discovery



talog 1	Module Discovery	Favorites				
-	Modules		Revision	Additional Information	Action	
뢂	Ethemet					
	<172.17.47.1>	ZAC50EN02	1.3	🛛 🏘 Controller does not support adding I/O		
	NULU	Agd to Favorites Register EDS File				

Figure 12: Add to Favorites

Enter Search Text for Modul	<u>C</u> lear Filters	5		
	Description	Vendor	Category	
0Y2TA104P0150E ZAC50EN02	OY2TA104P0150E ZAC50EN02	wenglor sensoric gmbh wenglor sensoric gmbh	General Purpose Discrete 1/0	
		¢.		
of 2 Module Types Found			Bemove F	avorite

Figure 13: Favorite Devices



• You can also look for devices in the "Catalog" tab. The OY2TA104P0150E transit time sensor is displayed in our example (see figure 14).

log Module Discovery Favorite	S			
oy2ta	Clear Filters		ļ	Sh <u>o</u> w Filters ¥
Catalog Number	Description	Vendor	Category	
1 of 439 Module Types Found				Add to Favorite

Figure 14: Catalog Search



 After clicking "Create", a name, a description and an IP address can be assigned to the selected product (see figure 15).

aeneral" Co	nnection	Module Info	Internet Protocol	Port Configuration		
Type:	OY2T	A104P0150E	DY2TA104P0150E			
Vendor:	wengle	or sensoric gm	bh			
Parent:	Local	ENB				
Name: wenglor_distance_sensor		ensor	Ethemet Address			
Description:	weng	wenglor high performance distance sensor		nsor	Private Network:	192.168.1.
	2				IP <u>A</u> ddress:	172 . 17 . 47 . 3
					C Hart Name:	
					O Host Name.	(.
				-		
Module De	finition					
Revision:		1.001				
Electronic	Keying:	Compatible M	odule			
Connection	ns:	Input Only				
				Change		

Figure 15: New Module

- After clicking the "Change" button, modules can be defined such as inputs or outputs if this is supported by the utilized product.
- When module setup has been completed, the product is listed in the Controller Organizer.



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