

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 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 figure 1). 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.

The screenshot shows the "New Controller" dialog box with the following configuration:

- Vendor:** Allen-Bradley
- Type:** 1769-L23E-QB1 CompactLogix5323E-QB1 Controller
- Revision:** 20
- ☐ Redundancy Enabled
- Name:** wenglor_demo
- Description:** wenglor demonstration project
- Chassis Type:** <none>
- Slot:** 0 (Safety Partner Slot: <none>)
- Create In:** C:\RSLogix 5000\Projects
- Security Authority:** No Protection
- ☐ Use only the selected Security Authority for Authentication and Authorization

Buttons: OK, Cancel, Help, Browse...

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.

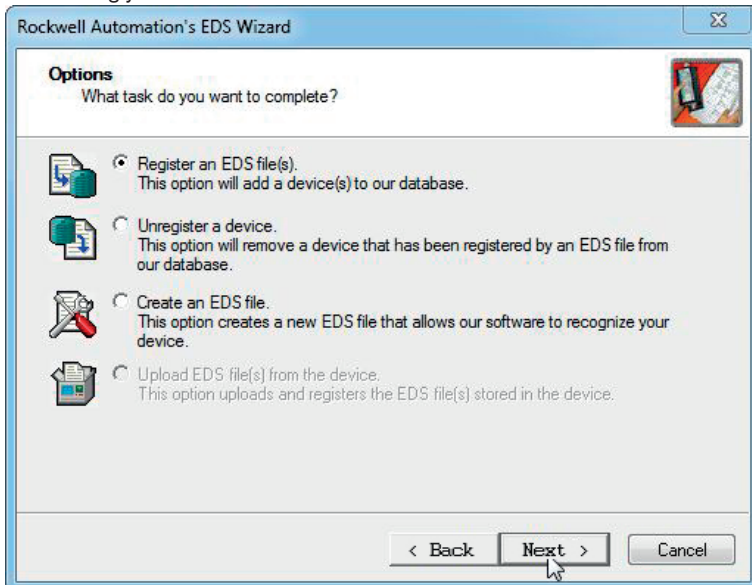


Figure 3: Registering the EDS

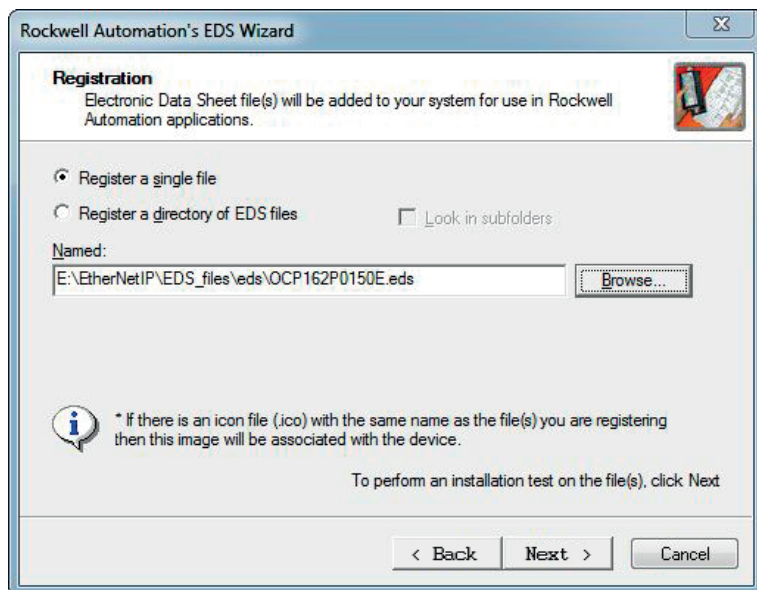


Figure 4: Registration

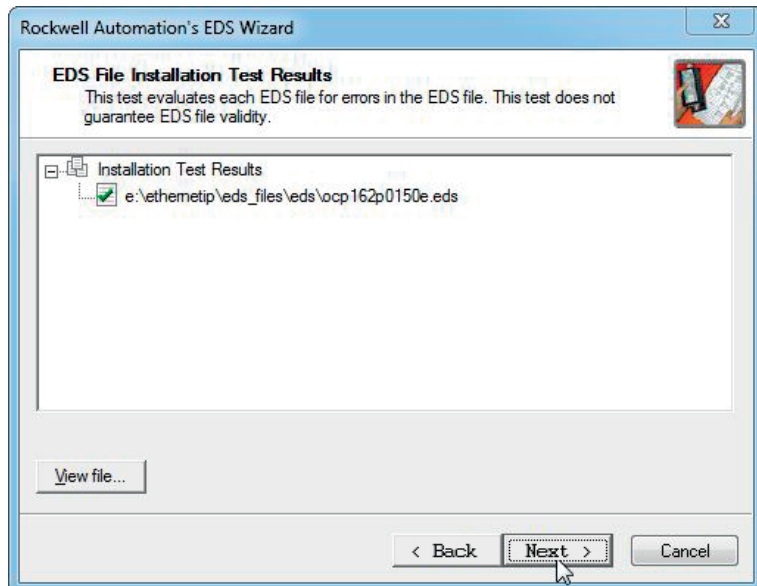


Figure 5: Installation Test Results

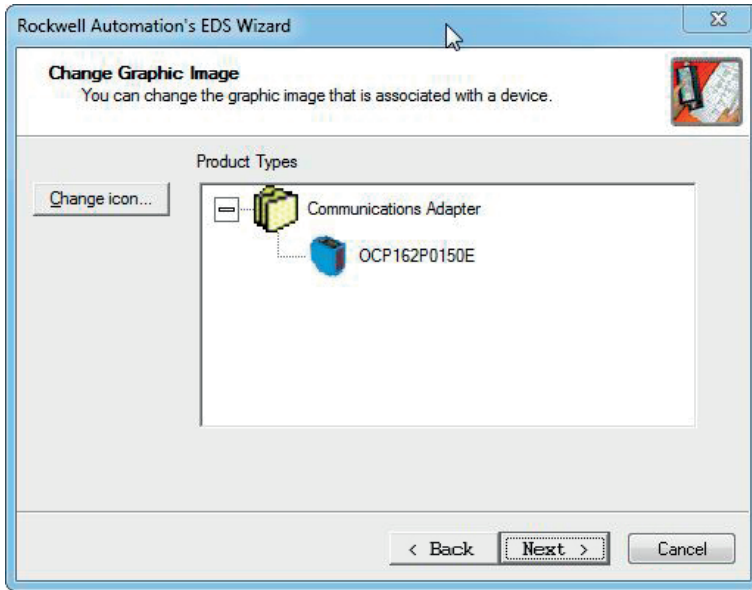


Figure 6: Icon

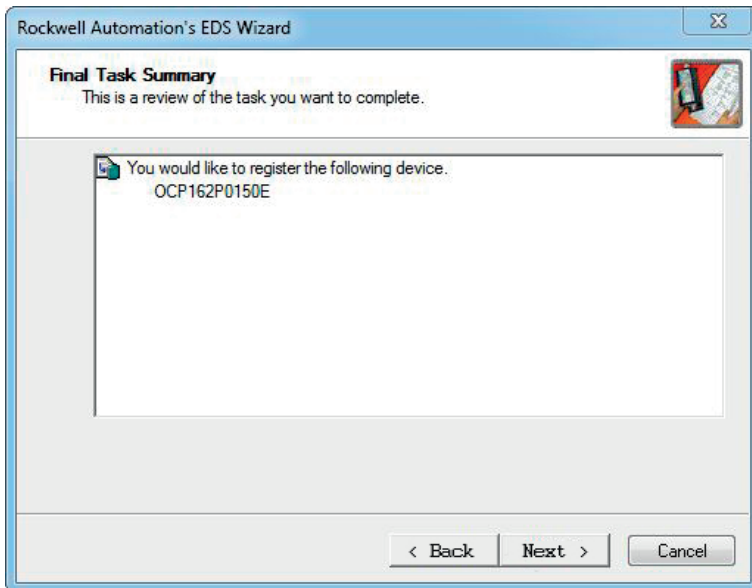


Figure 7: Final Task Summary

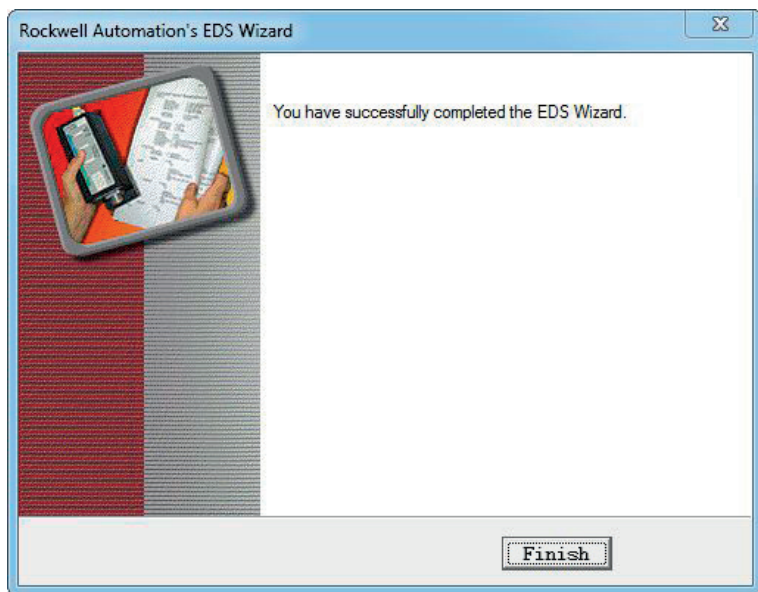


Figure 8: Finished

- 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.

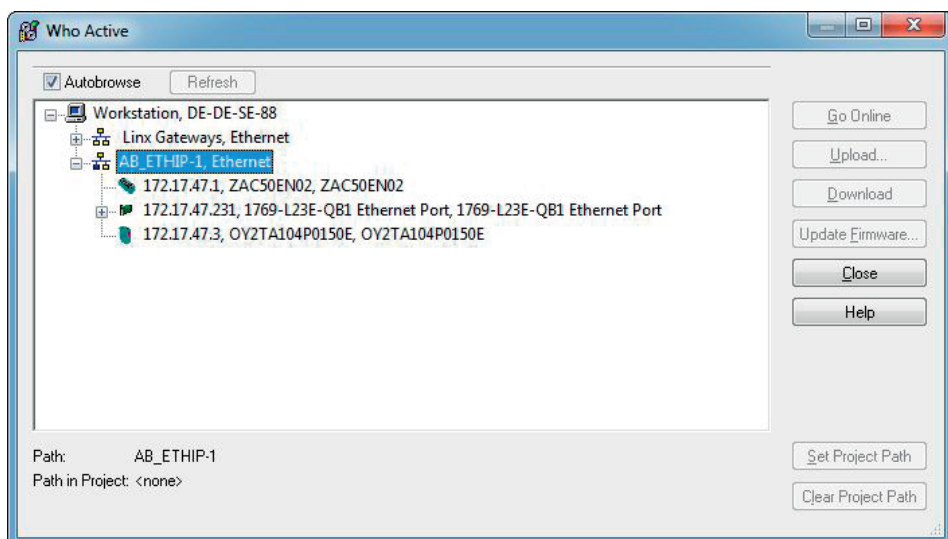


Figure 9: Who's Active

- “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).

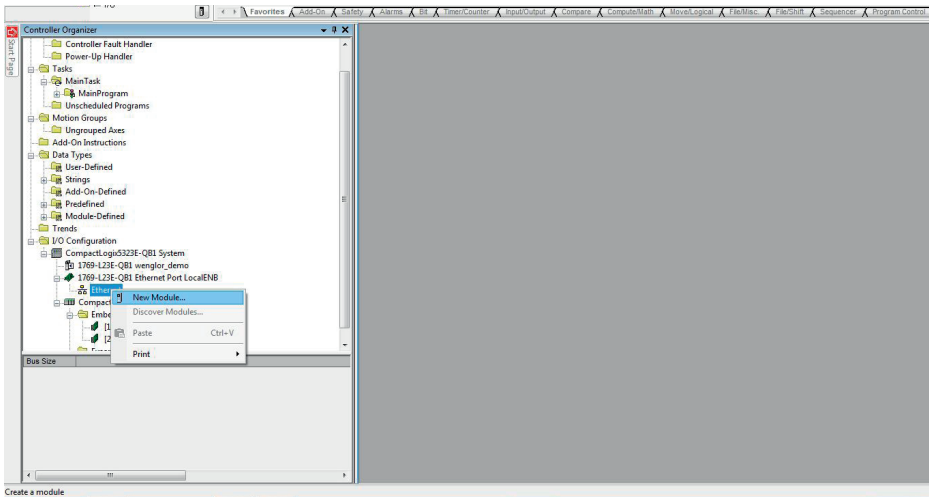


Figure 10: Controller Organizer

- 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).

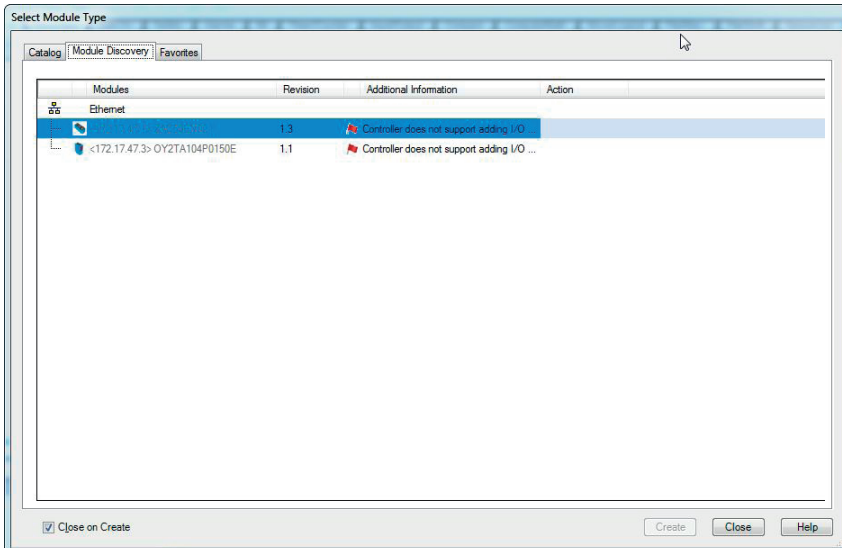


Figure 11: Module Discovery

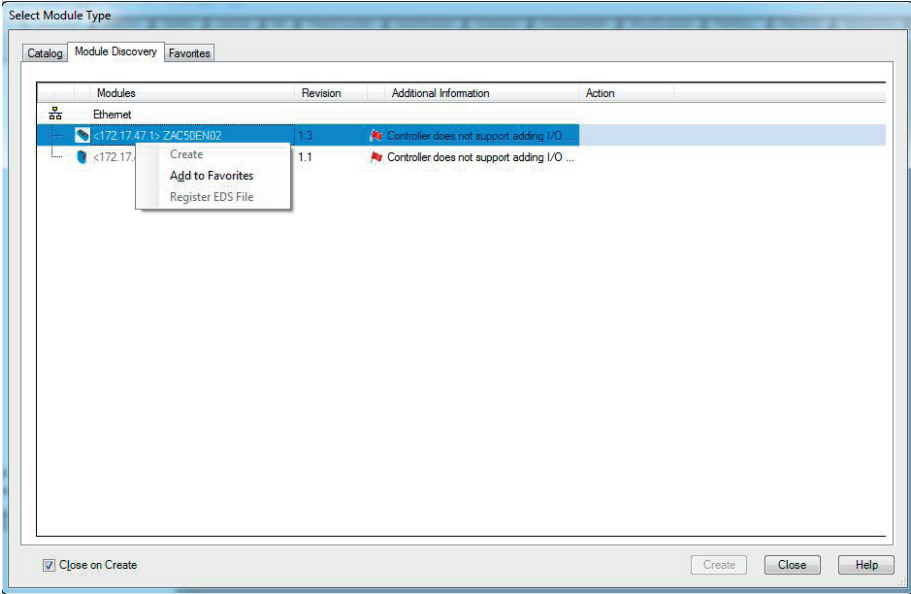


Figure 12: Add to Favorites

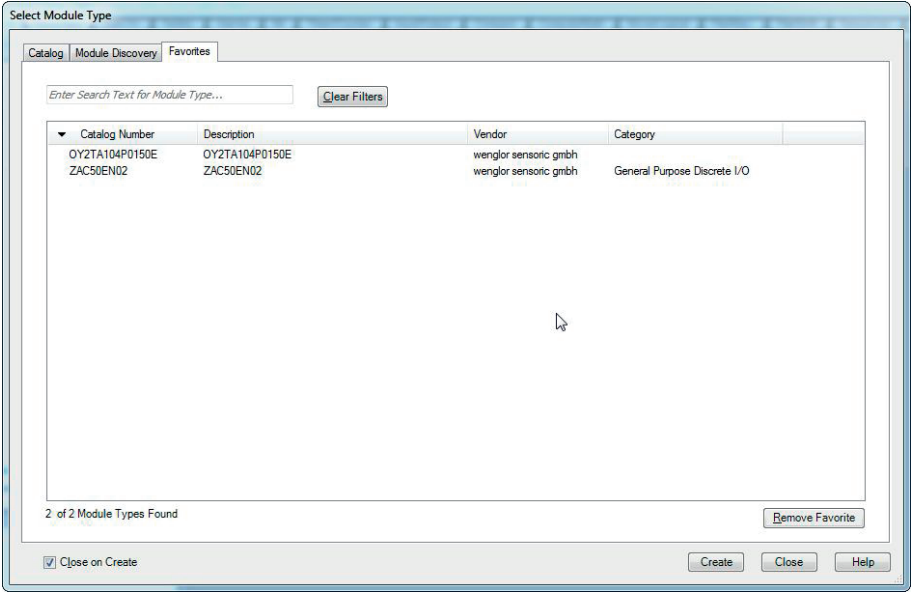


Figure 13: Favorite Devices

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

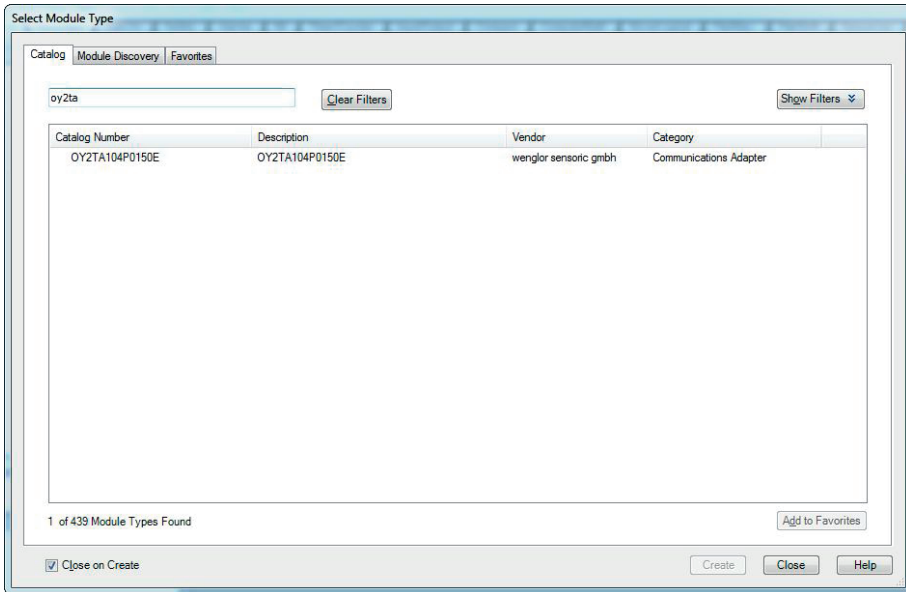


Figure 14: Catalog Search

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

New Module

General | Connection | Module Info | Internet Protocol | Port Configuration

Type: OY2TA104P0150E OY2TA104P0150E
 Vendor: wenglor sensoric gmbh
 Parent: LocalENB
 Name: wenglor_distance_sensor
 Description: wenglor high performance distance sensor

Module Definition
 Revision: 1.001
 Electronic Keying: Compatible Module
 Connections: Input Only

Change ...

Ethernet Address
☐ Private Network: 192.168.1.
☒ IP Address: 172 . 17 . 47 . 3
☐ Host Name:

Status: Creating

OK Cancel Help

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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