How to add an EDS file in Studio 5000

If you need to know how to add an EDS file in Studio 5000, you register the file so the device appears in your project's module list. You can do this in two ways: from the **Tools** menu inside Studio 5000, or with the standalone EDS Hardware Installation Tool from Rockwell Automation. This guide covers both methods, then shows how to confirm the device is available and add it to your project.

Prerequisites

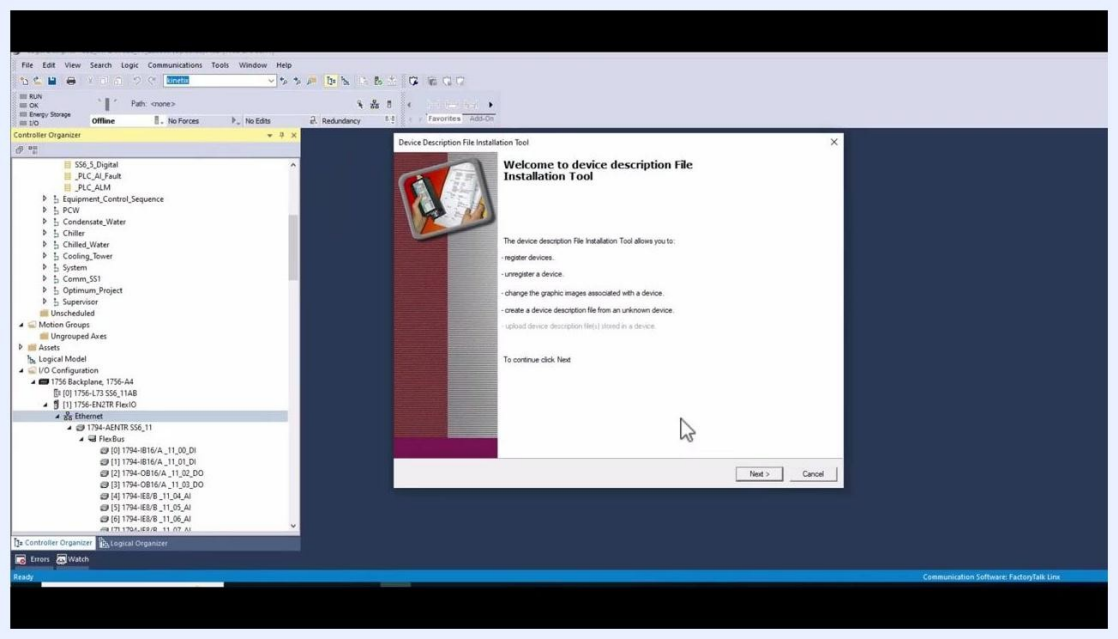
Before you begin, make sure you have the following:

- Studio 5000 installed on your computer.
- The EDS file for your device saved on your computer. The examples in this guide use Grundfos_EIP_WaterUtility_Adapter_EDS.eds from the Desktop.
- The EDS Hardware Installation Tool, if you plan to use the standalone method. If it is not installed, download it from the official Rockwell Automation website.

Add an EDS file from within Studio 5000

Step 1: Open Studio 5000

Launch the Studio 5000 application on your computer. The main workspace appears, with the Controller Organizer on the left and a blank project area on the right.



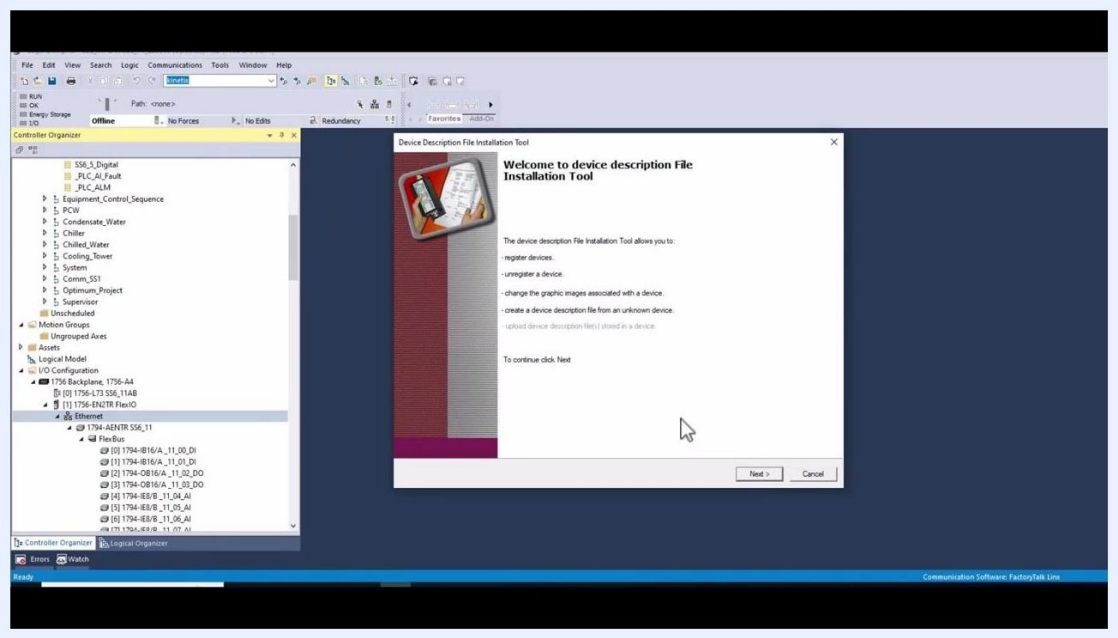
Studio 5000 main workspace with the Controller Organizer and project tree visible

Step 2: Open the Tools menu

At the top of the Studio 5000 window, click the **Tools** menu. From the dropdown, select **EDS Hardware Installation Tool**.

Step 3: Start the wizard to add an EDS file in Studio 5000

The Device Description File Installation Tool window appears. The welcome screen reads "Welcome to device description File Installation Tool." Click **Next** to proceed.



Device Description File Installation Tool welcome screen with instructions and the Next and Cancel buttons

Step 4: Choose to register an EDS file

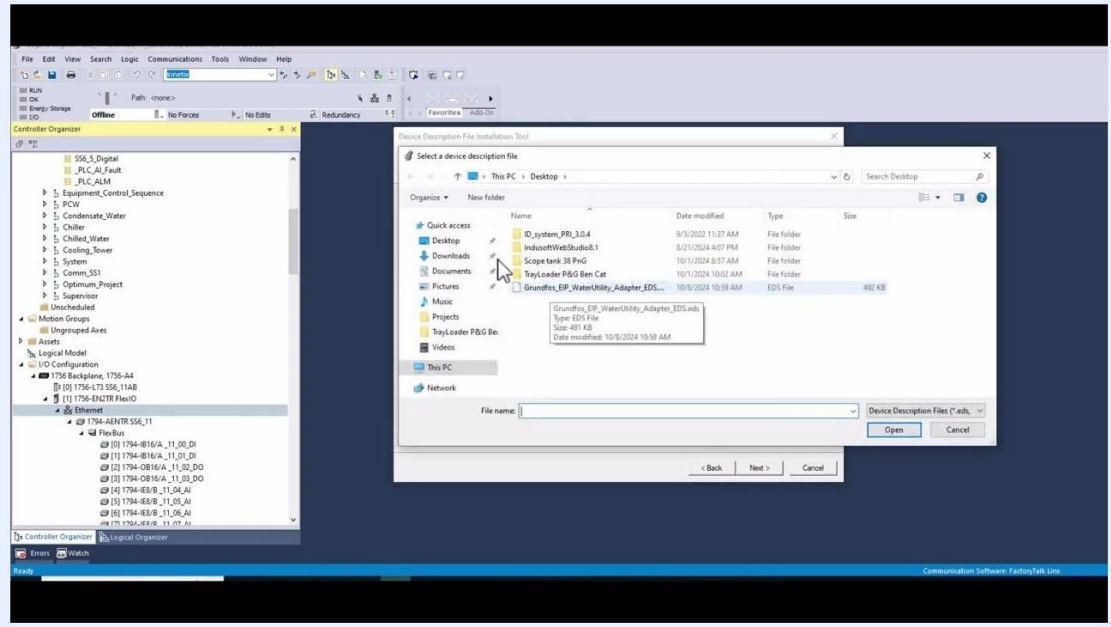
If the wizard prompts you, choose the **Register an EDS File** option.

Step 5: Browse for the EDS file

Follow these steps to select your file:

1. Click **Browse** to open a file selection dialog.
2. Navigate to the location of your EDS file on your computer.
3. Select your file. For example, select Grundfos_EIP_WaterUtility_Adapter_EDS.eds from the Desktop.

4. Click **Open**.

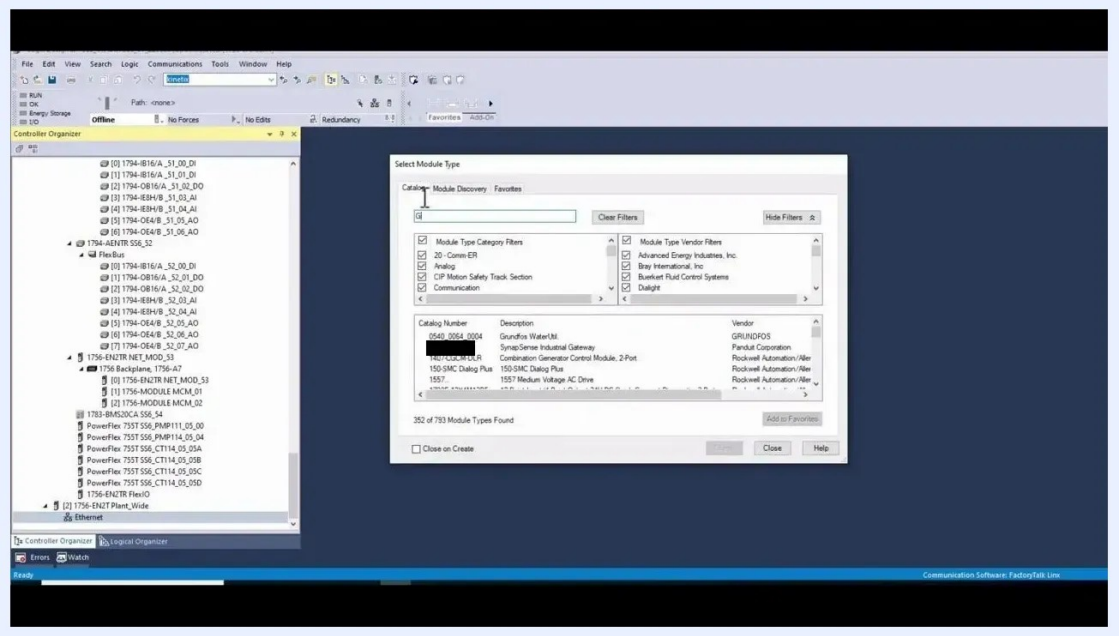


File browser dialog with the EDS file Grundfos_EIP_WaterUtility_Adapter_EDS.eds selected

Step 6: Review the test results and finish the import

The wizard tests the selected EDS file for errors. On the **Device Description File Installation Test Results** screen, confirm that your file passes validation, which a green checkmark indicates.

Click **Next** to continue, and follow any additional prompts to finish the registration.



Installation Test Results screen showing successful validation of the selected EDS file

Add an EDS file with the standalone tool

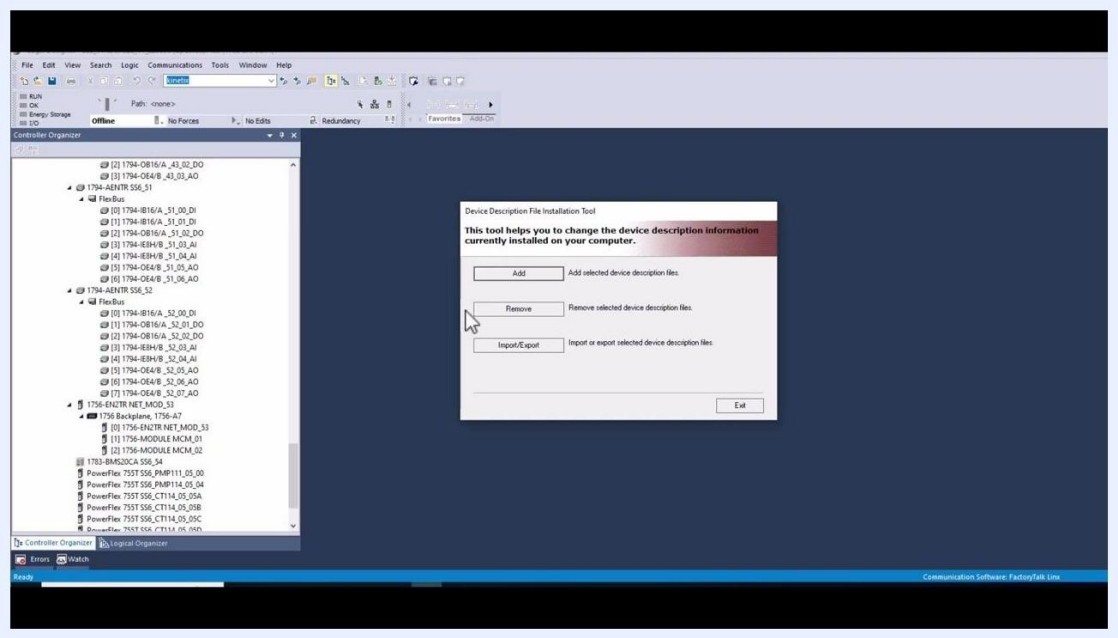
You can also use Rockwell Automation's standalone EDS Hardware Installation Tool to install an EDS file outside of Studio 5000.

Step 7: Download the EDS Hardware Installation Tool

If the EDS Hardware Installation Tool is not already installed on your system, download it from the official Rockwell Automation website.

Step 8: Launch the EDS Hardware Installation Tool

Open the tool from your Start menu or desktop shortcut. The main window, titled "Device Description File Installation Tool," appears. It offers options to add, remove, or import and export device description files.



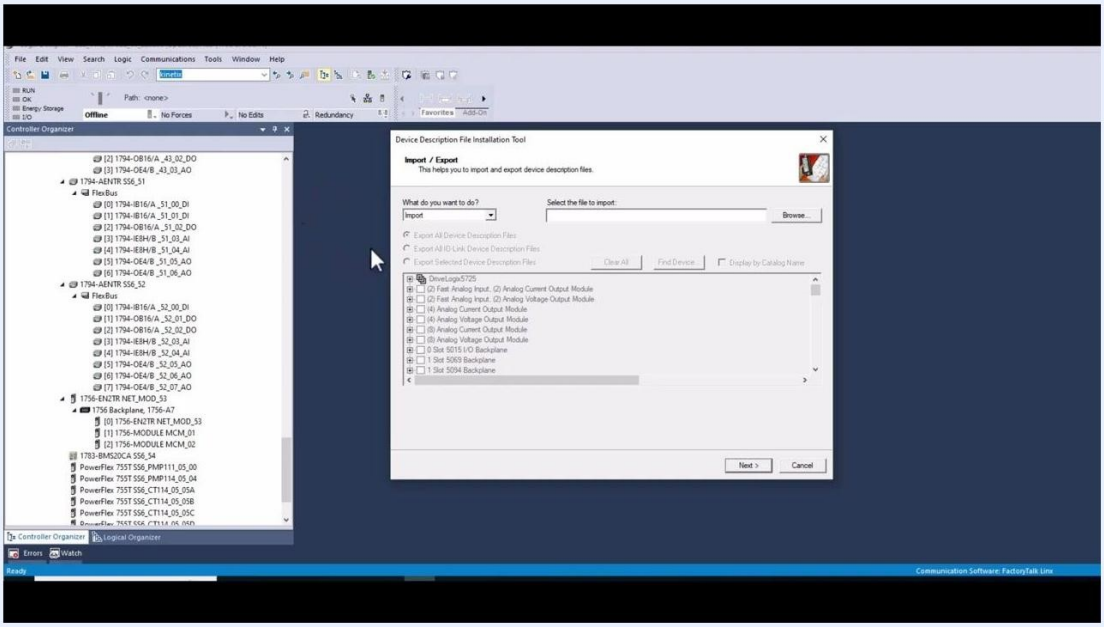
Device Description File Installation Tool main window with the Add, Remove, and Import/Export options

Step 9: Start registering the EDS file

Click **Import/Export** to begin the registration process. The Import/Export dialog appears, where you select the operation and the file.

1. In the "What do you want to do?" dropdown, select **Import**.

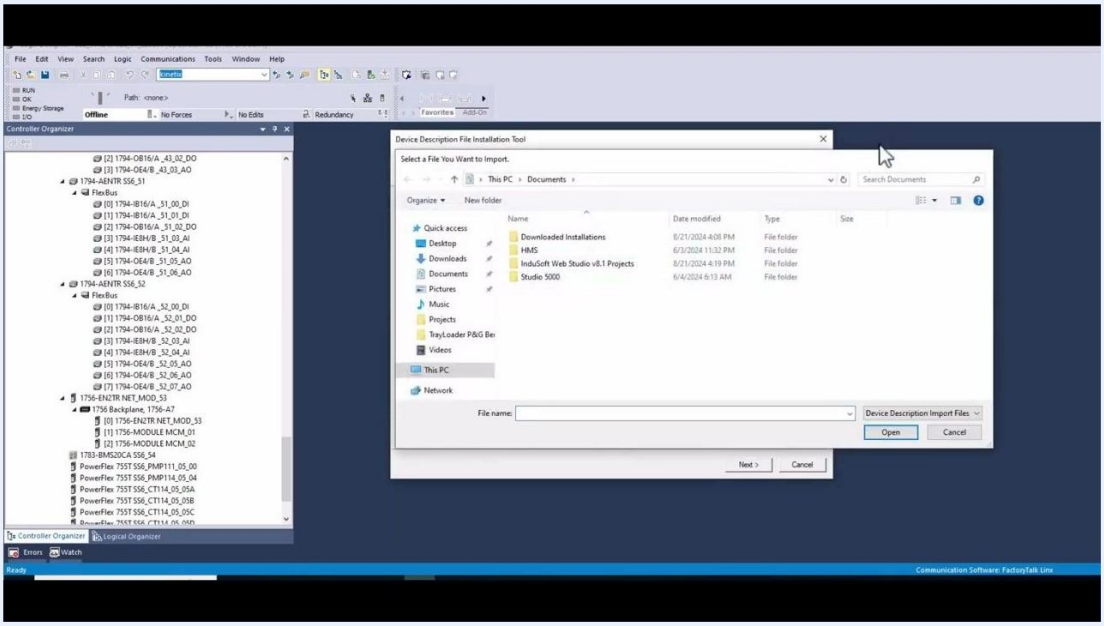
2. Next to "Select the file to import," click **Browse...**.



Import/Export dialog with Import selected and the Browse button visible

Step 10: Select the EDS file

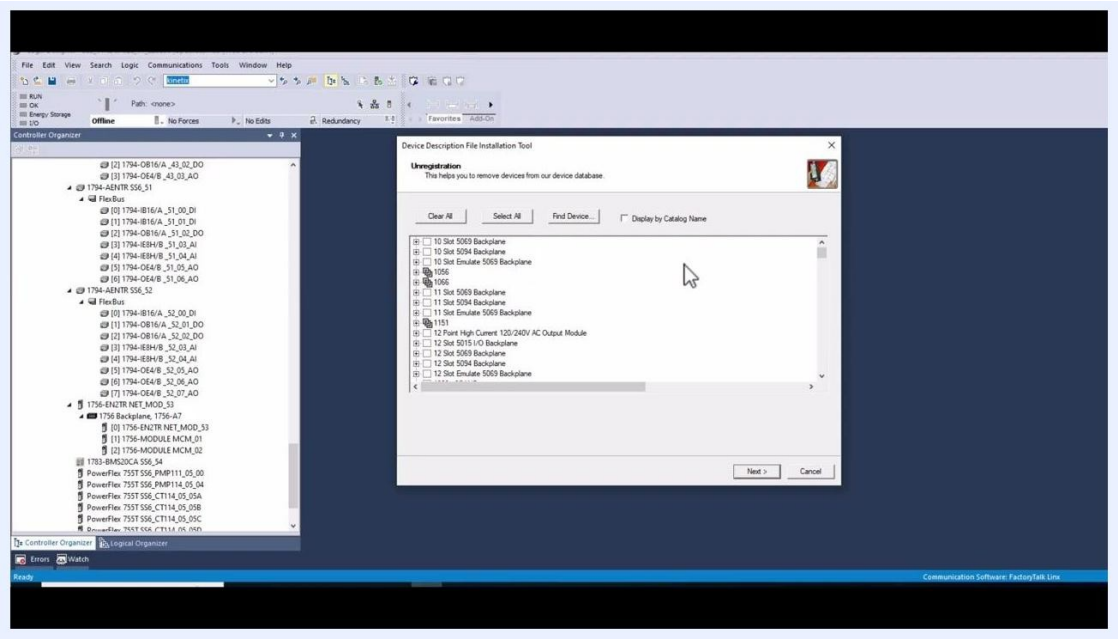
In the file browser dialog, navigate to the folder that contains your EDS file. Select the file you want, for example Grundfos_EIP_WaterUtility_Adapter_EDS.eds, and click **Open** to confirm.



File browser dialog open to the Documents folder, ready to select an EDS file

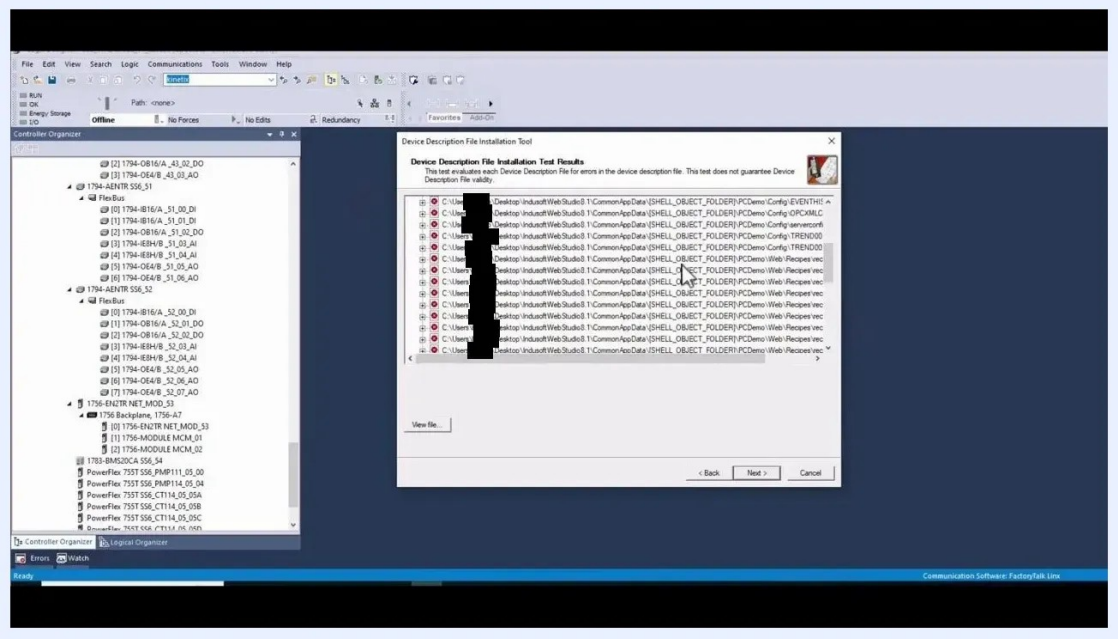
Step 11: Complete the registration wizard

Follow the on-screen wizard to complete the registration process. If you try to proceed without selecting a file, a warning dialog appears with the message "Please select an available file path!" Click **OK** and make sure you select a valid file.



Warning dialog reading Please select an available file path!

The wizard may prompt you to register a single device description file or a directory of device description files. Use the folder browser to select the appropriate location, then click **OK**.

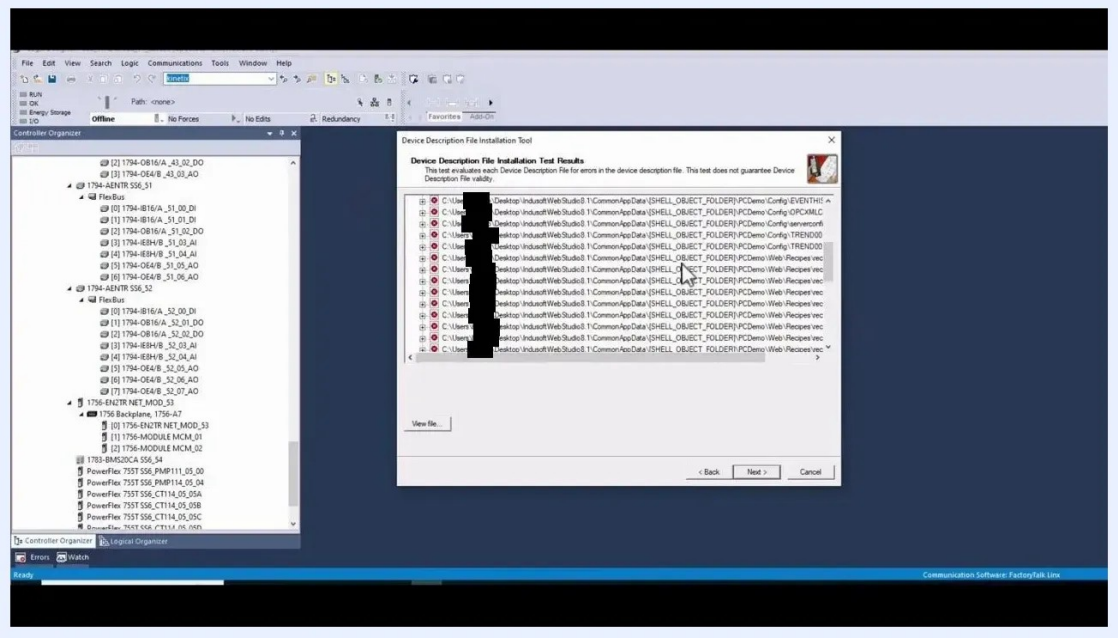


Registration dialog with the folder browser open, showing directory selection

Step 12: Review the installation test results

The tool performs an installation test on the selected files. Any errors or issues appear in a results window. Review the list for problems such as "Unable to get the Stamp element under the IODdevice node."

If there are no critical errors, click **Next** to proceed.

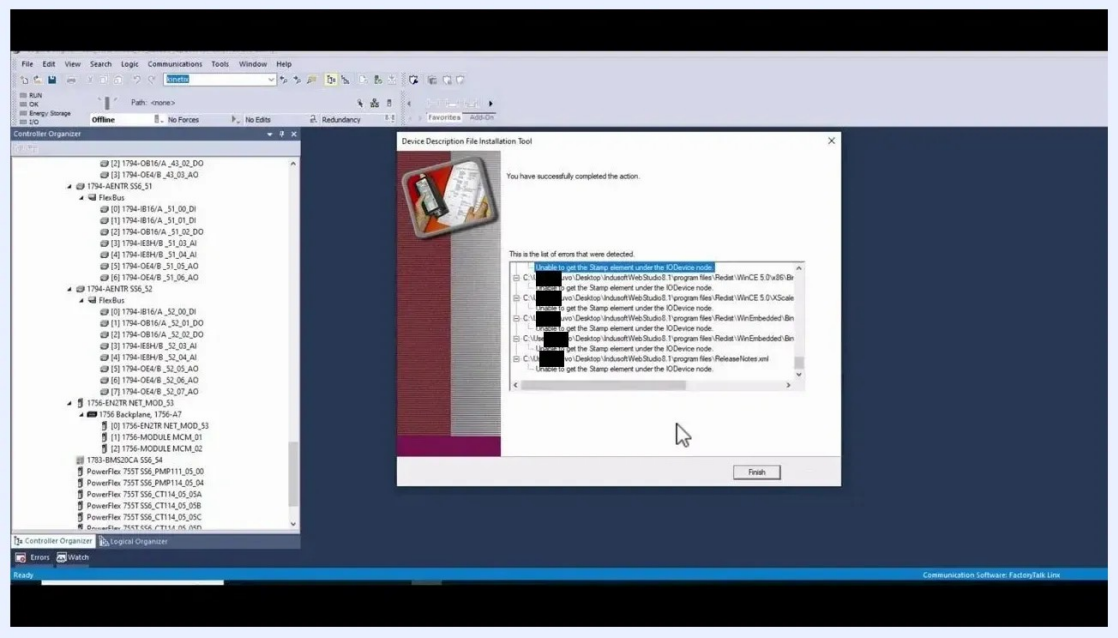


Device Description File Installation Test Results window showing a list of errors

Step 13: Review the confirmation and finish

When registration is complete, a confirmation window appears in the Device Description File Installation Tool. The message "You have successfully completed the action." appears at the top of the window.

Below the message, a list shows any errors detected during the process. For example, multiple entries may read "Unable to get the Stamp element under the IODevice node." Review the list to make sure no critical issues would prevent device registration, then click **Finish** to close the wizard.



Device Description File Installation Tool confirmation window with the error list and the Finish button

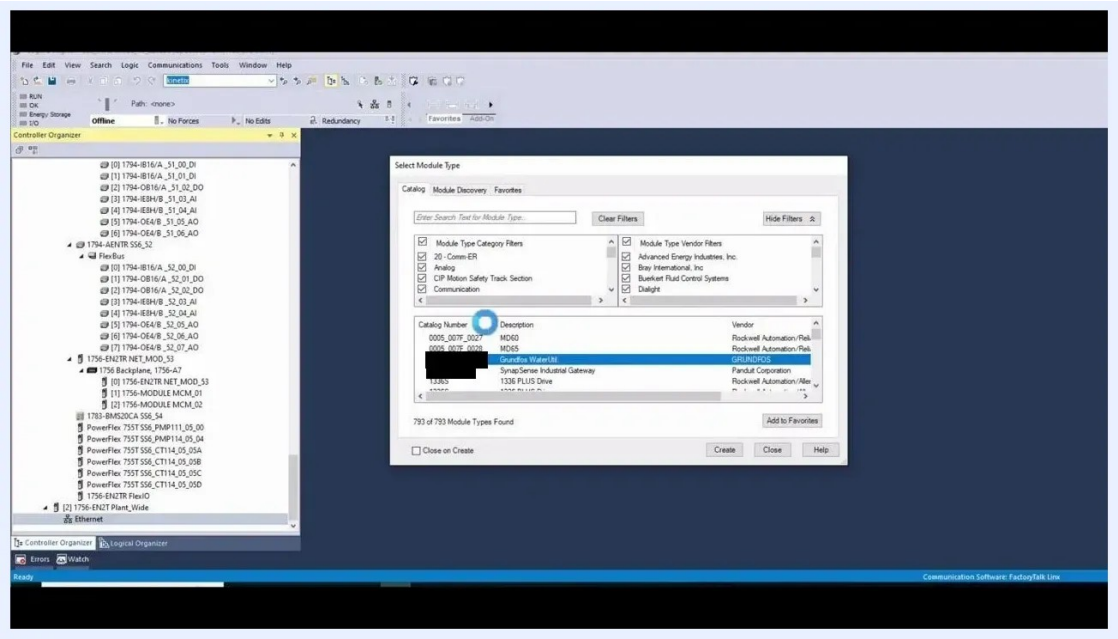
Verify the device in Studio 5000

Step 14: Verify the EDS registration

Once the EDS file is registered, you can use the associated device in your Studio 5000 project. In the Controller Organizer, expand the I/O Configuration or the relevant section to confirm that the new device is available.

Step 15: Add the device to your project

Open the **Select Module Type** dialog. Use the search bar or scroll to find your newly registered device, for example "Grundfos WaterUnit" by GRUNDFOS. Select the device in the list and click **Create** to add it to your project.



Select Module Type dialog with Grundfos WaterUnit highlighted in the list

Step 16: Verify device integration

Make sure the device is listed and selectable for configuration within your project. If it does not appear, review the error messages from the registration process. Repeat the import if needed, and make sure you use the correct EDS file.

Troubleshooting persistent errors

If you see persistent errors such as "Unable to get the Stamp element under the IODevice node," consult the EDS file documentation or contact the device manufacturer for support. Minor warnings may not prevent device registration, but you must resolve critical errors for the integration to succeed.

Summary

You now know how to add an EDS file in Studio 5000, either through the **Tools** menu or with the standalone EDS Hardware Installation Tool. After

registration, the device is available in the **Select Module Type** dialog, so you can configure and use it in your automation project.