

Replacing Communicator Classic with New Communicator

QUICK GUIDE

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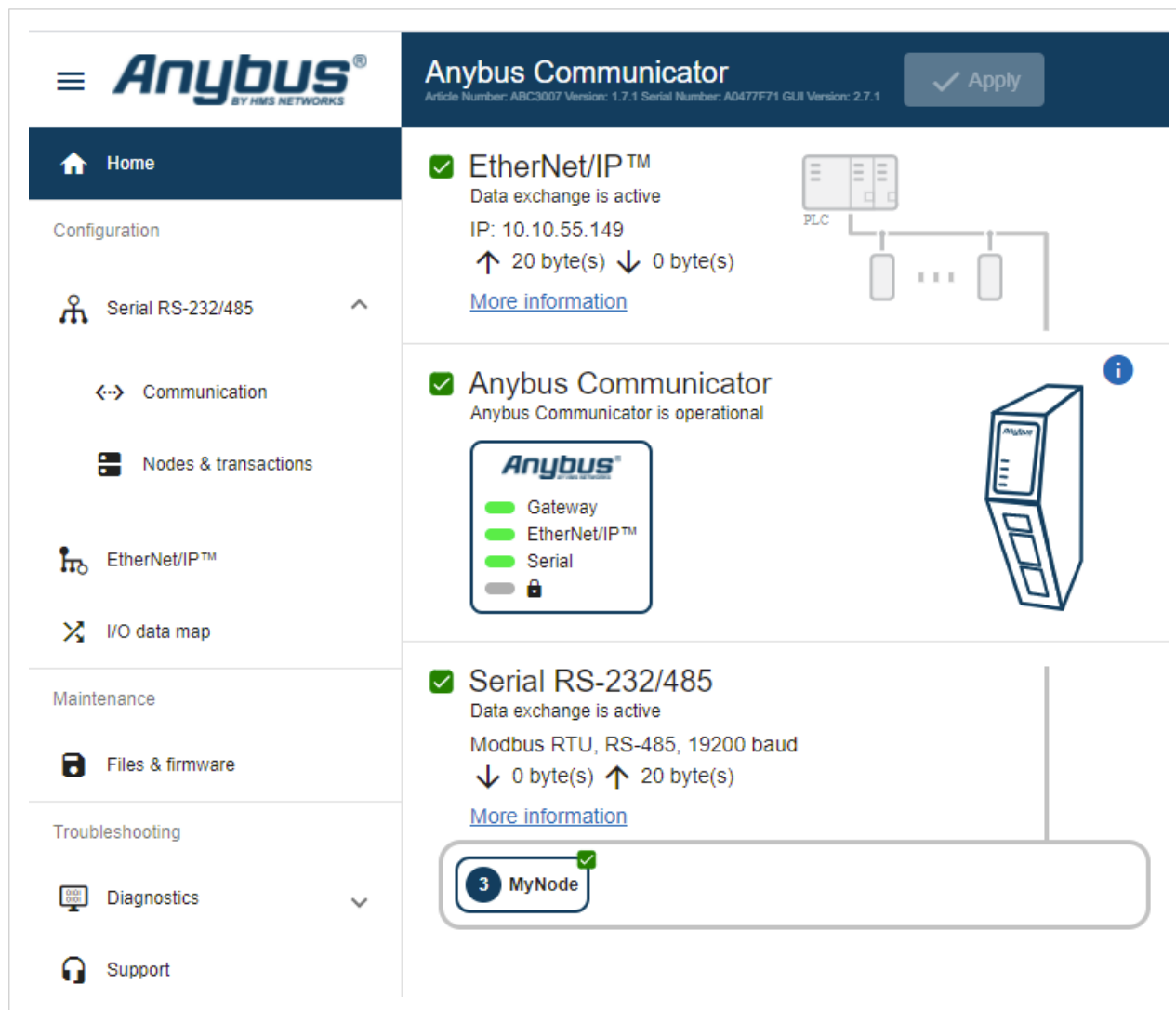
1. Overview

This guide describes how to replace the Communicator Classic with the new Communicator.

Essentially, there are three main parts to take into consideration:

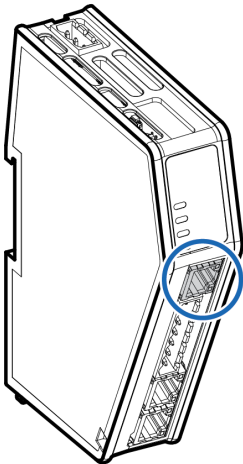
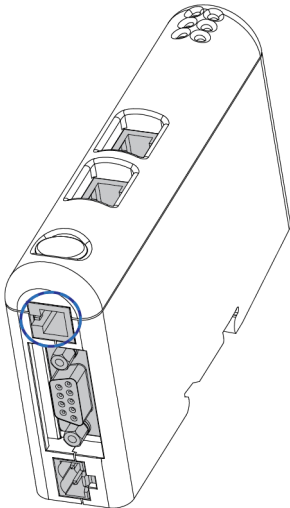
1. *Physical differences*: power and network connectors are not in the same place, and the configuration port is different.
2. *Configuration conversion*: locating your old configuration and importing it into the new communicator.
3. *Network configuration file update*: how to locate the new GSD/GSDML/EDS file for your network and update the PLC (master).

The goal is to have the new Communicator up and running with a configuration originally from the old Communicator Classic. The screenshot below shows the desired view, where the new Communicator successfully is using the converted configuration.



2. Physical Differences

Table 1. Physical Comparison

	Communicator	Communicator Classic
Dimensions	27 x 98 x 144 mm (L x W x H)	27 x 75 x 120 mm (L x W x H)
Product Image (configuration port is marked)		
Configuration Port	RJ45 connector	RS232 cable hosting a RJ11 connector
Serial Port	7-pin screw connector	D-sub
Power Connector	3-pin connector	2-pin connector



NOTE
The Communicator Classic requires more space at the bottom to accommodate the DSUB connector, while the new Communicator is slightly taller.

Figure 1. The Communicator and the Communicator Classic in Action

3. Configuration Conversion

The intended use of the configuration conversion is to:

- convert custom protocols.
- get a new Communicator unit up and running quickly and then complete the configuration in the Communicator's built-in web interface.

**NOTE**

If standard Modbus RTU commands are imported, they are converted to custom request/response transactions. The behavior of the standard Modbus RTU commands is preserved.

If you want to add additional commands you have to add them via the transaction templates in the user interface (all Modbus commands are available)

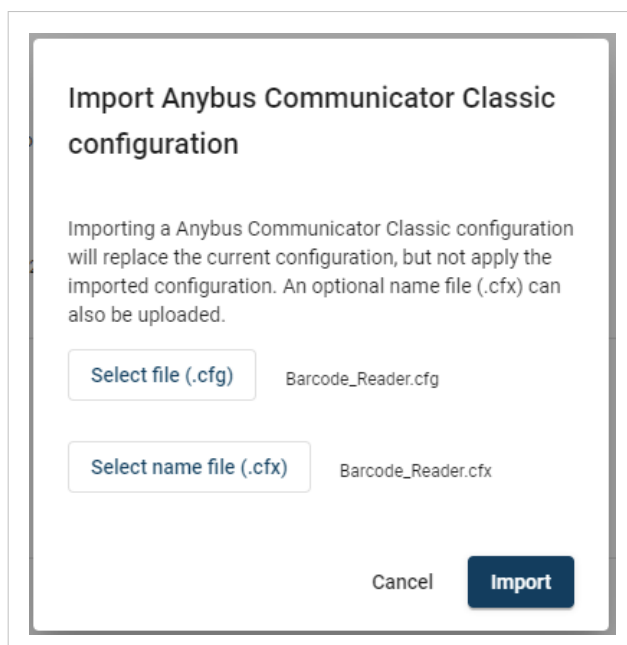
Locate the configuration file used with the Communicator Classic, that should be converted to work with the new Communicator.

In the built-in web-interface of the new Communicator to be configured:

1. On the Files & Firmware page, click the Import Anybus Communicator Classic configuration button.
2. In the Import configuration window, click Select file (.cfg).

**NOTE**

If there is an accompanying .cfx name file, it can also be selected and imported.



3. In the Open dialog box, browse to and select the configuration file and click Open.
4. To import the configuration file, click Import.

The configuration is now imported in to the web interface of the new Communicator. A pop-up window will appear, saying The import succeeded with the following messages. This window will present things that might need tweaking or corrections.

Possible configuration parts that might look different or need correction

- The fieldbus/network settings. These might need to be adjusted to the new network environment.
- Timeouts were previously set per transaction. In the new Communicator, they are now set on node level.
- Pure Modbus configurations are reinterpreted and imported as custom request/response transactions.

4. Network Configuration File Update

When replacing the Communicator Classic with the new Communicator, it is also mandatory to update the network configuration file (EDS, GSDML, GSD etc.) in the PLC software.

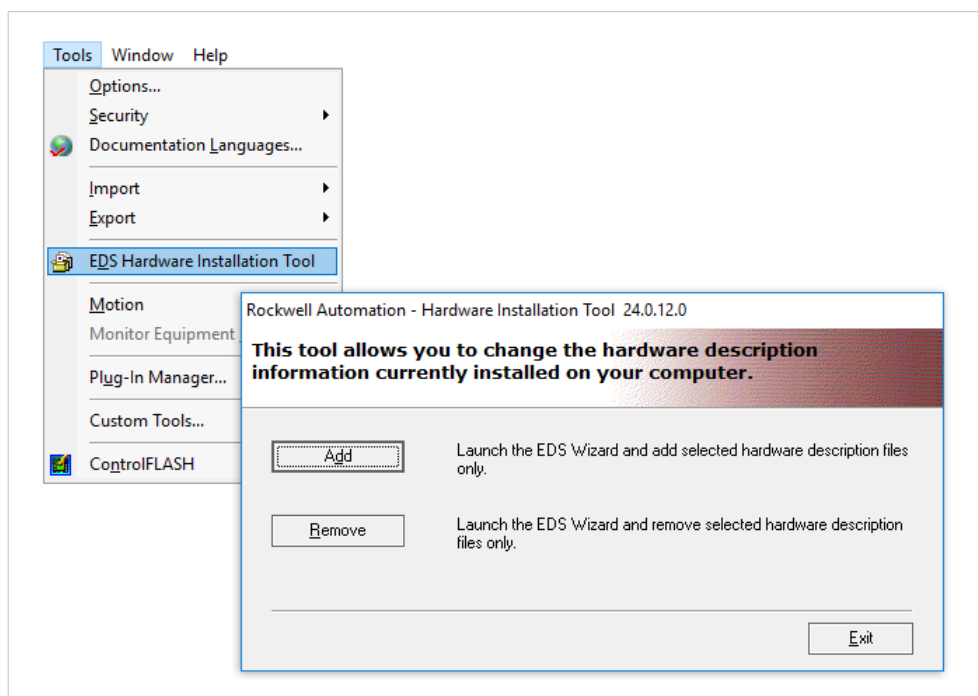
To retrieve the network configuration file from the web interface of the new Communicator (the example is for EtherNet/IP™, but it is identical for all networks):

1. Select EtherNet/IP™ in the left menu.
2. Select Files & Firmware.
3. Click EDS File.
→ This will download the EDS File to the computer.

Below, see two example of how to import the network configuration file into Studio 5000 and TIA Portal.

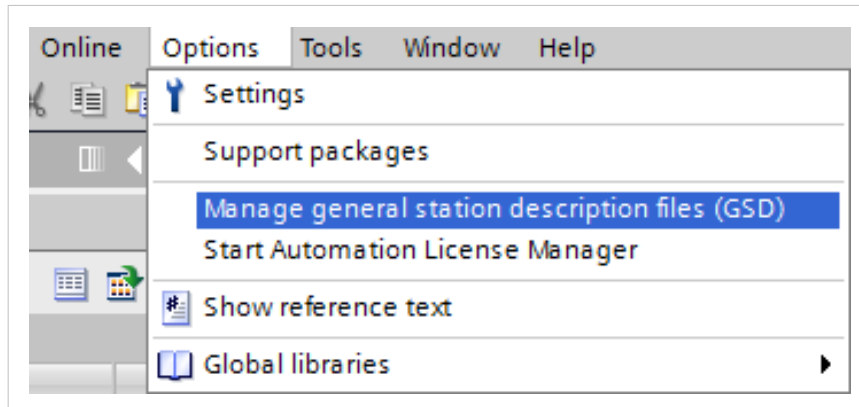
Example 1. How to import an EDS file into Studio 5000

1. Make sure that Studio 5000 is in Offline mode.
2. Open the Hardware Installation Tool wizard from the Start Menu or from the Tools menu in Studio 5000 and follow the on-screen instructions to install the EDS file.



Example 2. How to import a GSDML file into TIA Portal

1. In the Options menu in TIA Portal, select Manage general station description files (GSD).



2. After the GSD file has been imported into the configuration tool the Communicator will be available in the hardware catalog.