

# Firmware Update via WPS

CFW500-CETH2

Technical Support Manual



# Technical Support Manual

**CFW500-CETH2**

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## SUMMARY OF REVISIONS

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The information below describes the reviews made in this manual.

Version	Revision	Description
-	R00	First Edition.

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The table below shows which firmware version of the device is available for updating via WPS.

<b>Device</b>	<b>Device version</b>	<b>WPS version</b>
CFW500-CETH2	V1.01 or higher	V3.10 or higher

# 1 GENERAL INFORMATION

The purpose of this manual is to describe the procedures for updating the drive firmware and accessories (where applicable). This manual should be used in conjunction with the device manuals.



### **DANGER!**

It is prohibited the reproduction of the contents of this manual, in whole or in part, without the written permission of the manufacturer.

## 1.1 TERMINOLOGY AND DEFINITIONS

### 1.1.1 Terms and Definitions Used

**WPS:** Programming Software “WEG Programming Suite”.

## 2 TOOLS

This chapter presents the materials used for the firmware update by the user.

### 2.1 SOFTWARE

#### 2.1.1 WPS

It is necessary to have the WPS Programming Software (“ WEG Programming Suite ”) installed on your PC. This software is available for download on the website [www.weg.net](http://www.weg.net) or through the link [downloadcenter/wps](#).

### 2.2 HARDWARE

The hardware interface required for the connection between the PC and the device to be updated (frequency inverter or accessory) depends on each device family.

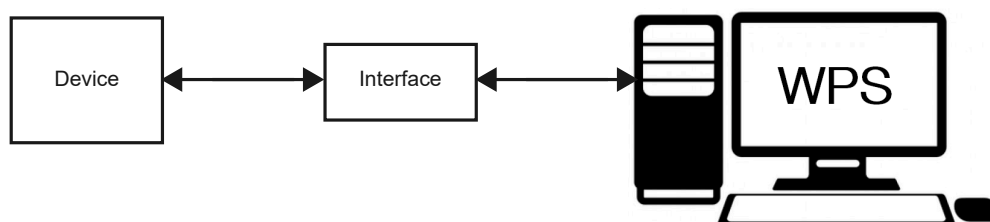


Figure 2.1: Interface between device and PC.

**ATTENTION!**

It is recommended to keep the device turned off during setup (before making connections).

**NOTE!**

For further details, see to the installation, configuration and operation guide of the corresponding expansion module, available for download on the website: [www.weg.net](http://www.weg.net).

#### 2.2.1 CFW500-CETH2

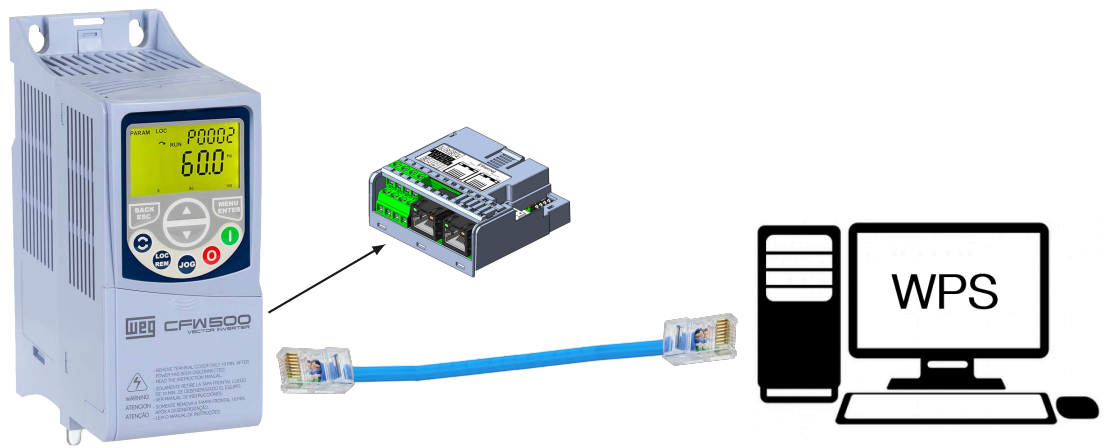
**NOTE!**

This configuration (interface) is used exclusively to update the CFW500-CETH2 accessory.

For updating the firmware of the CFW500-CETH2 communication device, it is necessary to use a CAT5 Ethernet cable. However, the CFW500-CETH2 device must be connected to a CFW500/CFW503/MW500 frequency inverter, which will exercise as the power source for the device. Such interconnections are shown in [Figure 2.2 on page 2-2](#).

**ATTENTION!**

Only turn-on the CFW500/CFW503/MW500 frequency inverter after completing all connections.

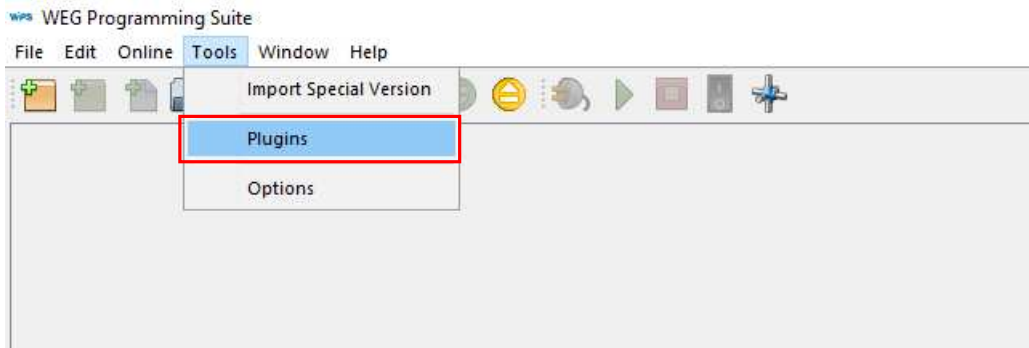


**Figure 2.2:** Interface between accessory CFW500-CETH2 and PC.



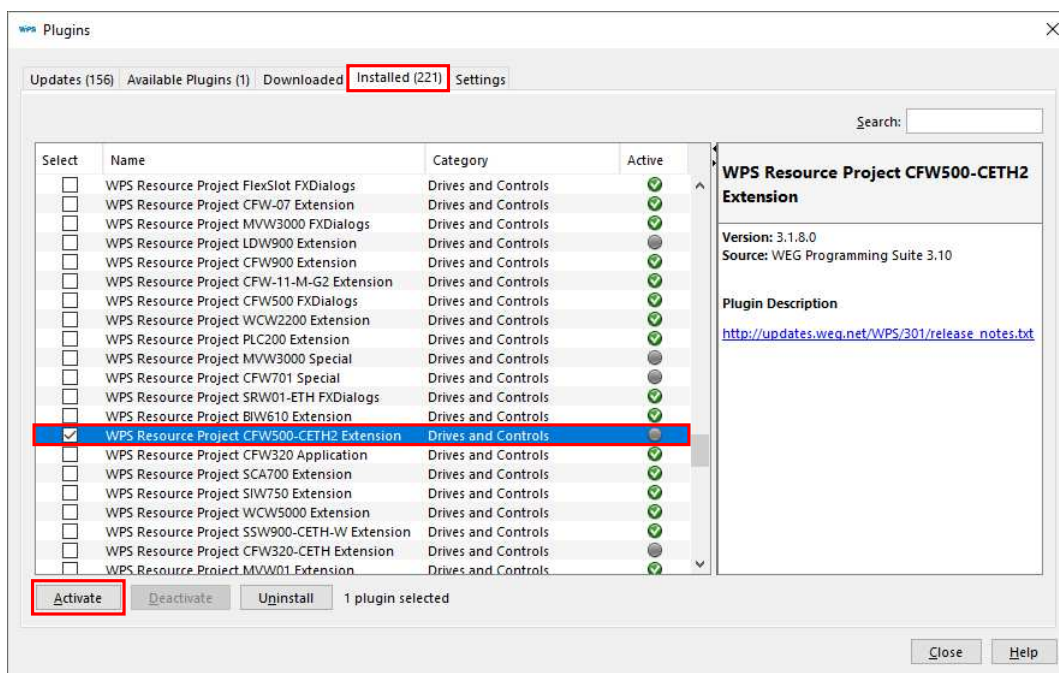
### 3 WPS PLUGINS

The page containing information and settings for the WPS plugins can be accessed through the menu “Tools” according to [Figura 3.1](#) below:



**Figure 3.1:** Shortcut “Tools” -> “Plugins”.

To activate the previously installed CFW500-CETH2 plug-in, follow the instructions according to the [Figure 3.2](#) below:



**Figure 3.2:** Activating installed plugins.



#### NOTE!

It is recommended to check all available updates following the indications in [Figure 3.3](#). Select all updates and click “Update”.

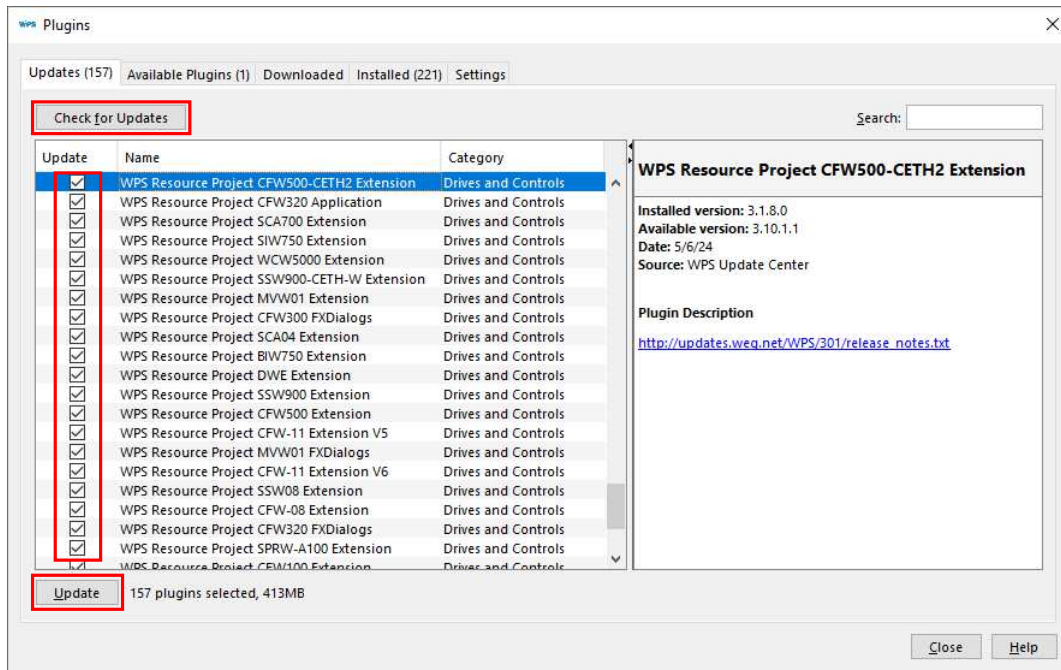


Figure 3.3: Plugins update.



**NOTE!**

After updating the plugins, the WPS software will be restarted. If any plugins were previously enabled as shown in Figure 3.2, you will need to activate it again.

## 4 PROCEDURE

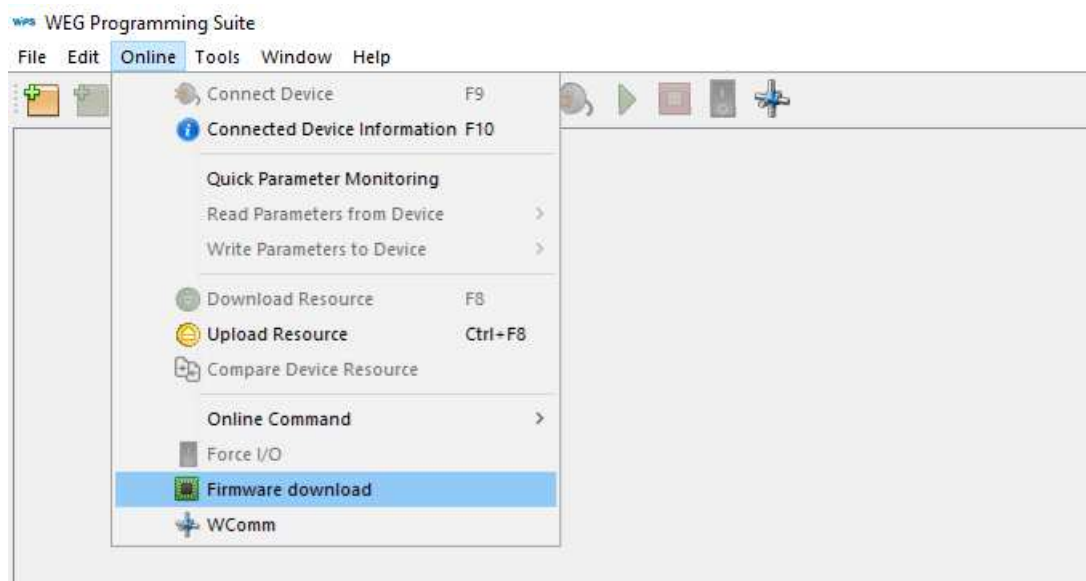
This chapter presents the procedures for updating the firmware by the user. With the setup installed, according to [Figure 2.1 on page 2-1](#), open the WPS software and perform the procedures below.

**NOTE!**

It is not necessary to have a project or resource created for the device to be updated.

### 4.1 SHORTCUT FOR FIRMWARE DOWNLOAD

The device firmware update from WPS can be accessed through the “Online” menu. Check [Figure 4.1](#) below:



*Figure 4.1: Shortcut “Online” -> “Firmware download”.*

### 4.2 COMMUNICATION CONFIGURATION

#### 4.2.1 Ethernet

**NOTE!**

This configuration (interface) is used exclusively to update the CFW500-CETH2 accessory.

To allow communication among the device and PC, they need to have an compatible IP address configuration. It means the IP address must be at the same range, according to netmask. To configure the IP address of PC on the Windows platform, go to “Network Connections”, open “Properties” of the desired unit and use the settings below:

- IP address: 192.168.0.2
- Subnet mask: 255.255.255.0

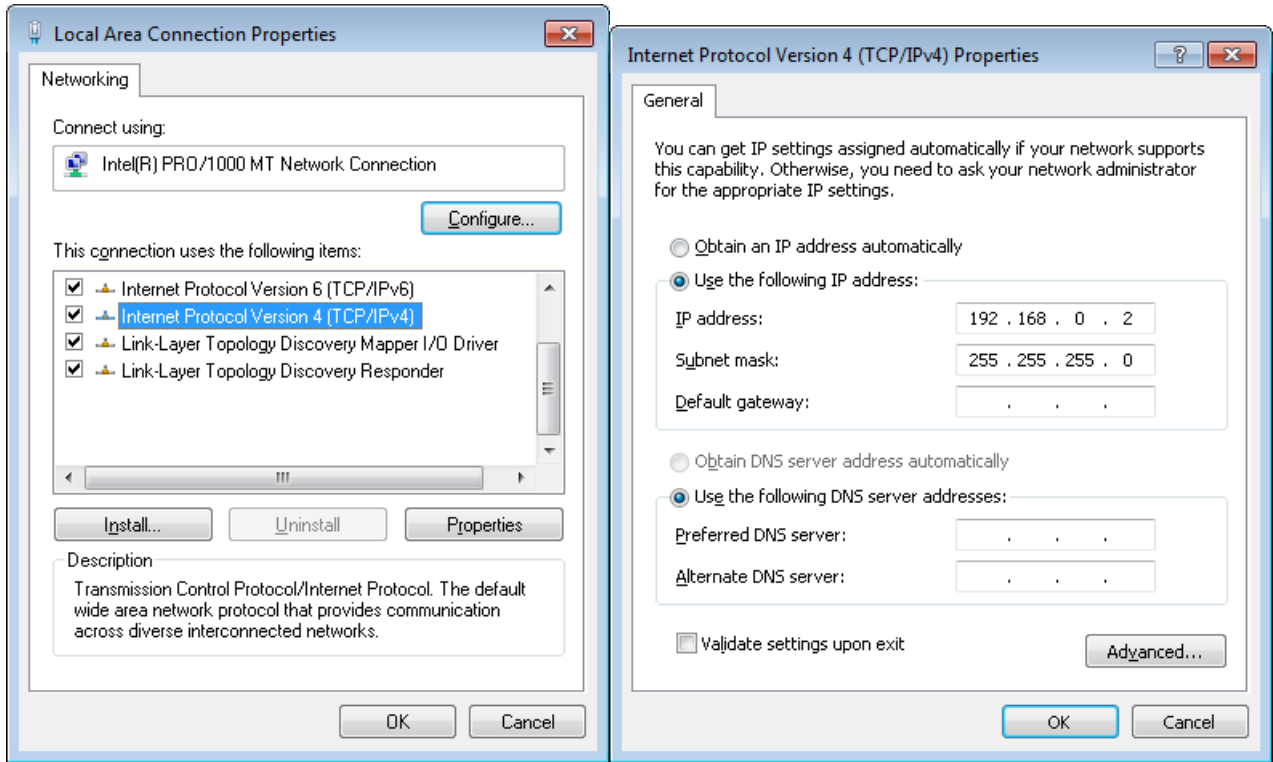


Figure 4.2: PC IP Address Configuration.

The interface configuration setup indicated in the [Figure 4.3 on page 4-3](#) must be in accordance with the parameters set on the device, where:

- IP address: “P0811.P0812.P0813.P0814”
- TCP port: “P0865”
- Unit ID: 254 (fixed value)



**NOTE!**

- These parameters allow you to program the IP address of the Ethernet interface and it is valid only if P0810 = 0 (Parameters).
- Subnet mask: P0815 = 24 (255.255.255.0).
- After changing this configuration, for the modification to be effective, the equipment must be turned off and then turned on again.

After performing the above procedures, click on “Test” and after identification (Online Device), click on “Next”.

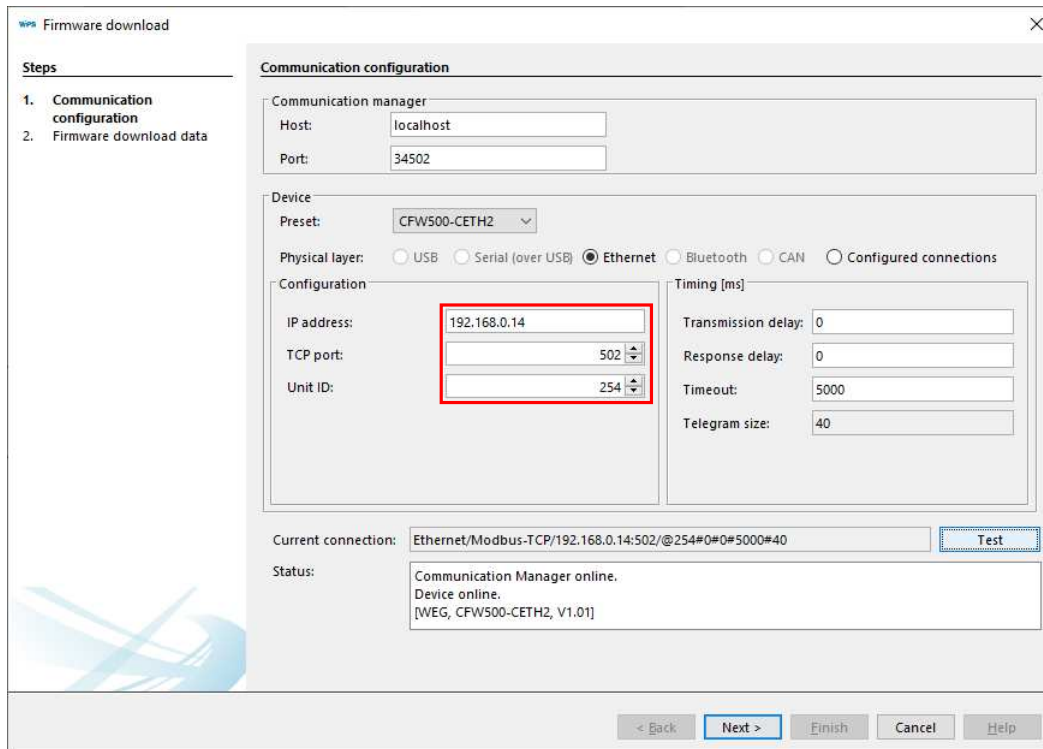


Figure 4.3: Ethernet Communication configuration.



**NOTE!**

For more information on configuring the ethernet interface (parameters P0810 to P0815 and P0865), refer to the Ethernet user manual for the corresponding device, available on the website: [www.weg.net](http://www.weg.net).

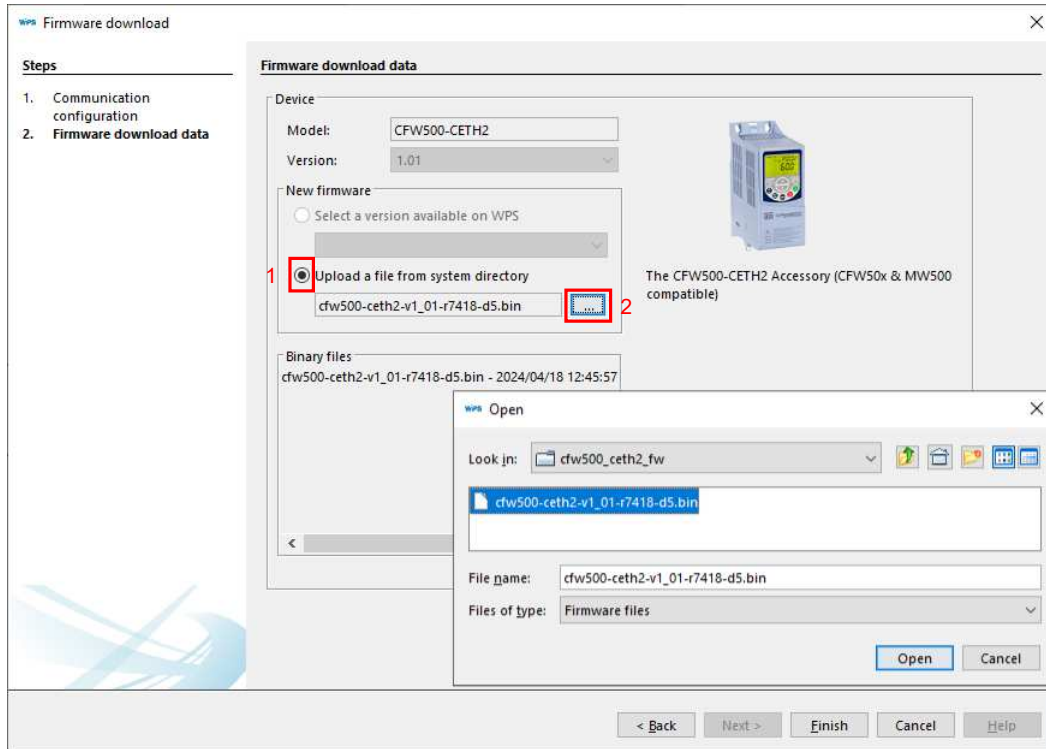
### 4.3 SELECTION OF FIRMWARE FILE



**NOTE!**

The firmware file (binary) for download must be obtained, in advance, from the supplier / technical assistance.

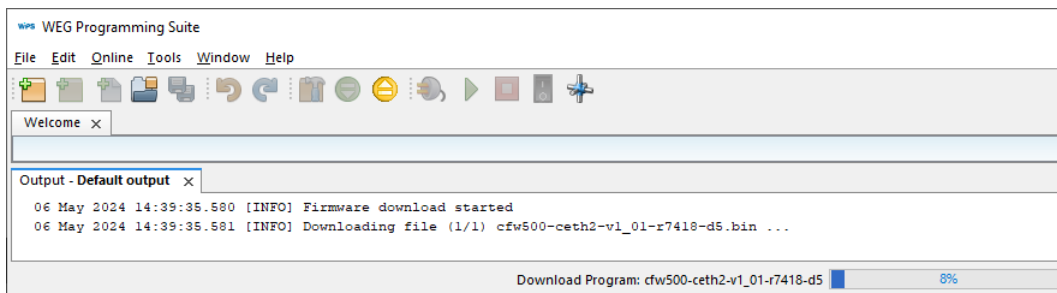
Select the firmware file with the desired version. Use the recommendations of the [Figure 4.4 on page 4-4](#) to search for the firmware. Once selected, click on “Next”.



**Figure 4.4:** Select a firmware file.

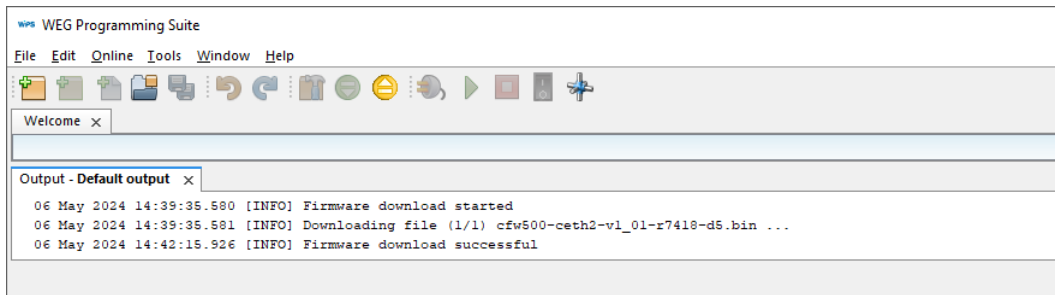
After confirming the data, click “Finish” to close the wizard and start the firmware download.

The firmware download starts, wait for the process to complete. The informations are presented in the “Output” window and status bar as the [Figure 4.5 on page 4-4](#):



**Figure 4.5:** Firmware download started

After completing the download process, a message in the “Output” window is displayed and a device reset occurs. Depending on the device, it is necessary to configure the communication parameters to communicate with the WPS again.



**Figure 4.6:** Firmware download successfully



**NOTE!**

It is recommended before downloading the firmware:

- Confirm the data in the “Selection of firmware file” window;
- Check if the SoftPLC application is stopped (set P1001 = 0, if necessary);
- Make sure the device is not in operation (motor running).



**NOTE!**

After completing the step indicated in [Figure 4.6 on page 4-5](#), it is recommended to check the corresponding parameter (P0023 or P0025) to verify that the firmware version has been updated correctly.



**NOTE!**

The firmware update process will not be completed if the binary file is incompatible or corrupted.



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