

Technical Note 126

AC500 V3 PLC – How to Upload and download

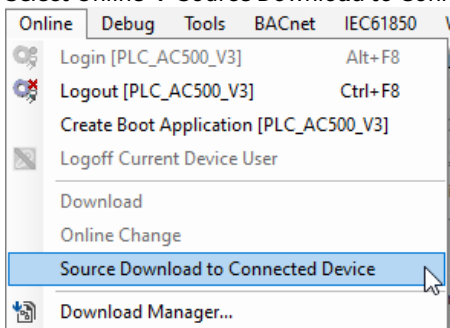
Download, Upload, and automatic setting in V3 PLC

If V3 PLCs are installed in a plant or shipped to a customer, it might be useful to save the source code of the project both on a hard drive but also in the PLC itself. This method allows any PC that has Automation Builder installed and can be connected to V3 CPU to Upload the source code and make changes to the PLC.

Keep in mind that users that have access to the PLC can upload the source code from the PLC. The internal code should either be secured by using the device user management or by using compiled libraries before giving a PLC with source code to customers.

Download source code to PLC

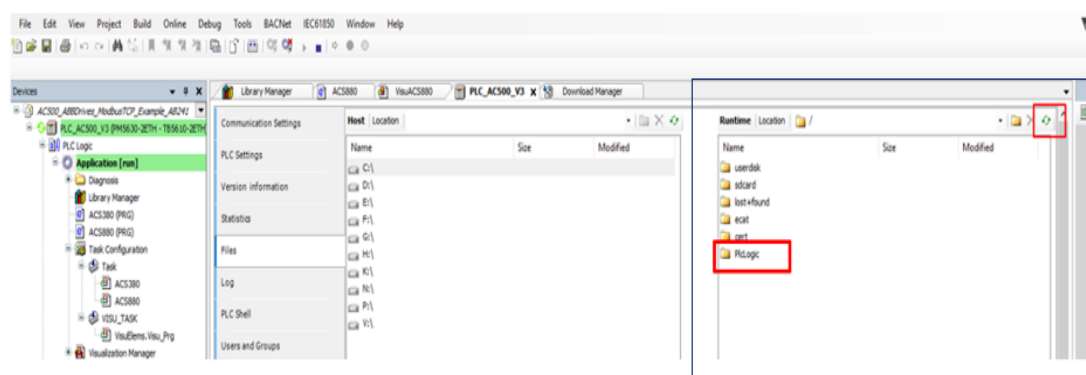
1. Login to the PLC.
2. Select Online → Source Download to Connected Device



The project archive will be downloaded to PLC

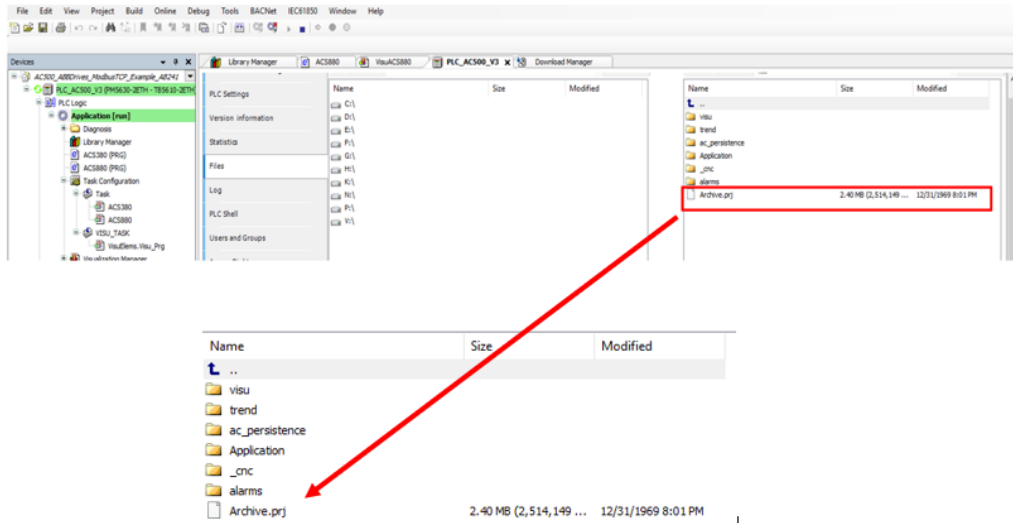
Verify the source code was downloaded to PLC

1. Navigate to the PLC node and open it. Then click on the Files Tab.



2. If the PLC window is empty, click refresh button.
3. Choose C:/ PlcLogic folder

4. The Archive.prj file is resided in this folder as shown below. The download file is successful.

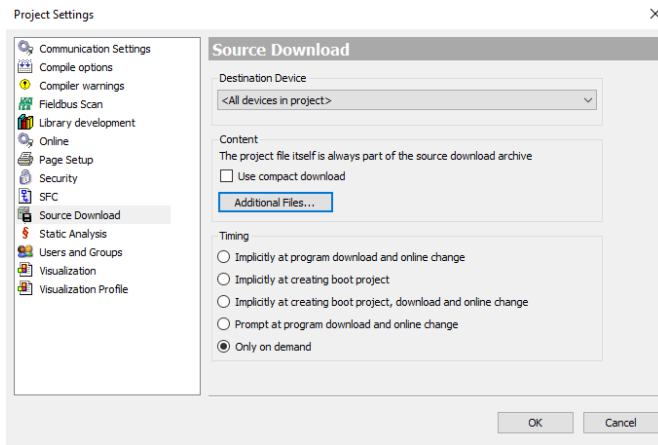


Note: The date time stamp shown below without battery in the CPU (default is 12/21/19690)

Settings for source code download

To allow the source code to download automatically, follow these steps. This setting is project related, so independent from which PC the project is opened the source code will be downloaded.

1. Open Project → Project Settings
2. Select Source Download



Destination Device: When having multiple PLCs in the project you can decide whether the source download is only for a specific PLC or for all PLCs

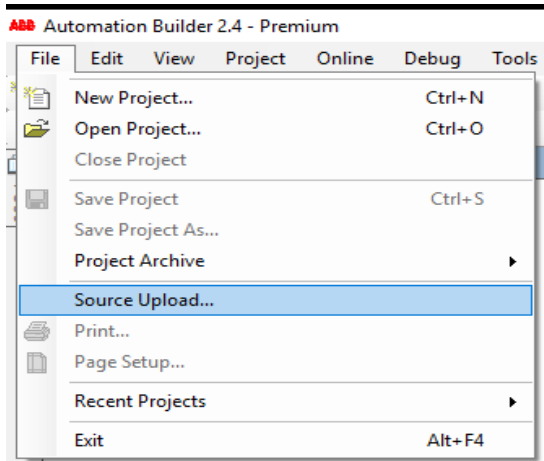
Content: When using external libraries or device descriptions please add them via Additional Files. Otherwise, other person might not have them installed in their Automation Builder. The compact download will reduce the size of the archive file on the PLC, but this will increase the time for compressing and unpacking.

Timing: By default, only on demand is selected. Then the steps described above will have to be performed each time the project is downloaded. To make sure that the running project is always the same as the stored project select “Implicitly at program download and online change”. It is also possible to prompt a pop up each time to decide whether the source code should be downloaded or not.

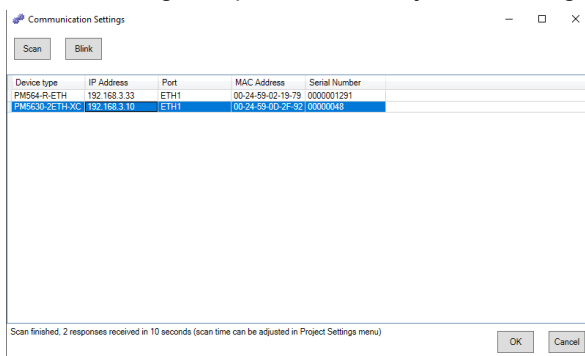
Uploading Source code back to PC

To be able to upload the source code you should open Automation Builder without project.

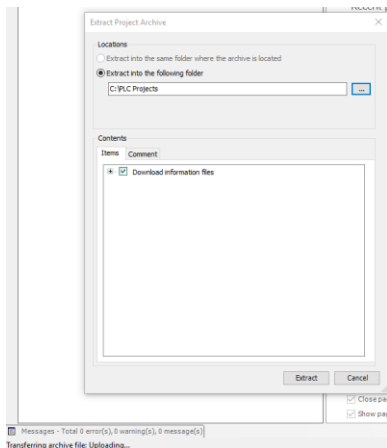
1. Select File → Source Upload



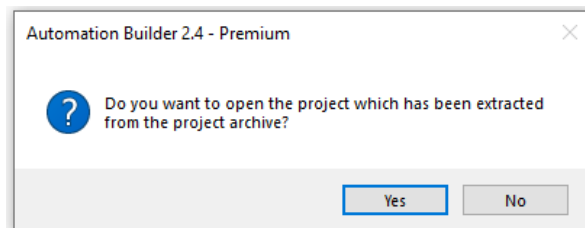
2. The Scan dialog will open automatically. Select the right PLC in the list and click OK



3. The Extract Project Archive dialog is opened. Select the project folder then click Extract to store the PLC project files.



4. Click Yes to Open the project which has been extracted from the project archive.



5. The stored project will be open on your PC.