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APPLICATION NOTE

AC500 PROJECT COMPARISON
COMPARE AC500 PROJECTS AND INTEGRATE THE DIFFERENCES

Contents

# 1   Introduction

1.1   Scope of the document

Show how it´s possible to compare two Automation Builder Projects and integrate the differences.

1.2   Compatibility

The application example explained in this document have been used with the below engineering system versions. They should also work with other versions, nevertheless some small adaptations may be necessary, for future versions.

- AC500 V2 PLC and AC500 V3 PLC

- Automation Builder 2.3.0 or newer

1.3   Overview
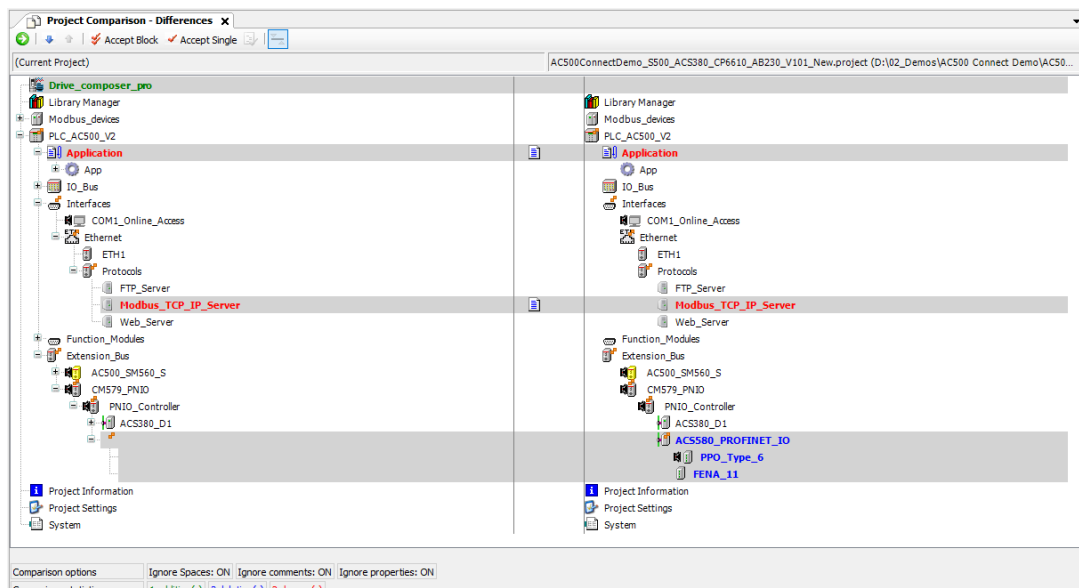
2 Prerequisites

It is possible to compare two Automation Builder projects.
To use this feature a **Premium license** of Automation Builder needs to be activated.

In the comparison as well hardware configuration and software code differences are shown and can be integrated from the comparing into the actual opened project.

To be able to compare the project, which is loaded to an AC500 PLC it is necessary, that the project, which was downloaded to the AC500 was also downloaded as source code to the AC500 PLC. For AC500-V2 PLCs this can be downloaded to an inserted SD-Card. For AC500-V3 PLCs this can be downloaded to the PLC directly.
To compare this downloaded source code, it has to be uploaded from the SD-Card or the AC500-V3 to the PC.

3 Compare two Automation Builder projects and select differences to be integrated

3.1 Documentation in Automation Builder Help

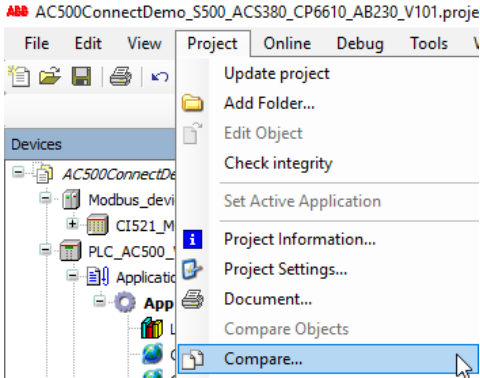See Help of Automation Builder in chapter:
Automation Builder > IEC61131-3 editor > Programming for PM56xx > **CODESYS Development System > Reference, User Interface > Menu Commands > Menu 'Project' > Command 'Compare'**
Even if this chapter found in the part for PM56xx (AC500-V3) it is applicable in the same way for the PM5xy (AC500-V2).
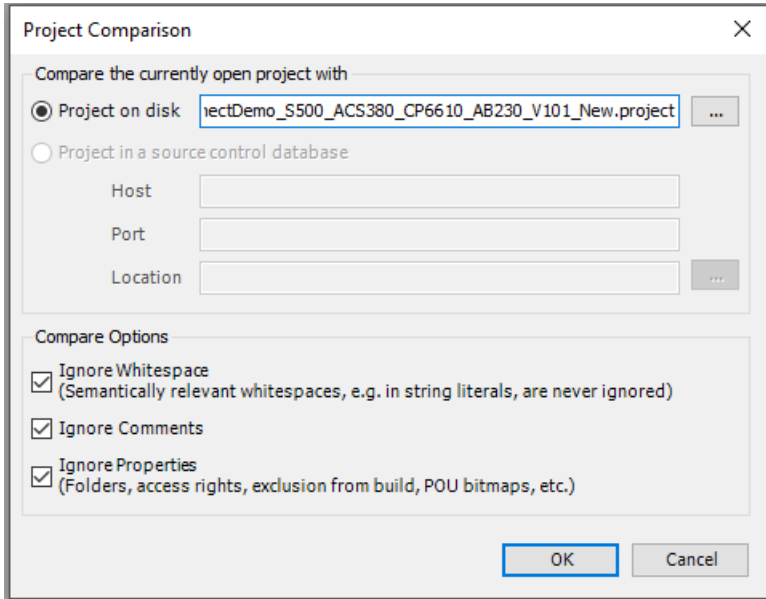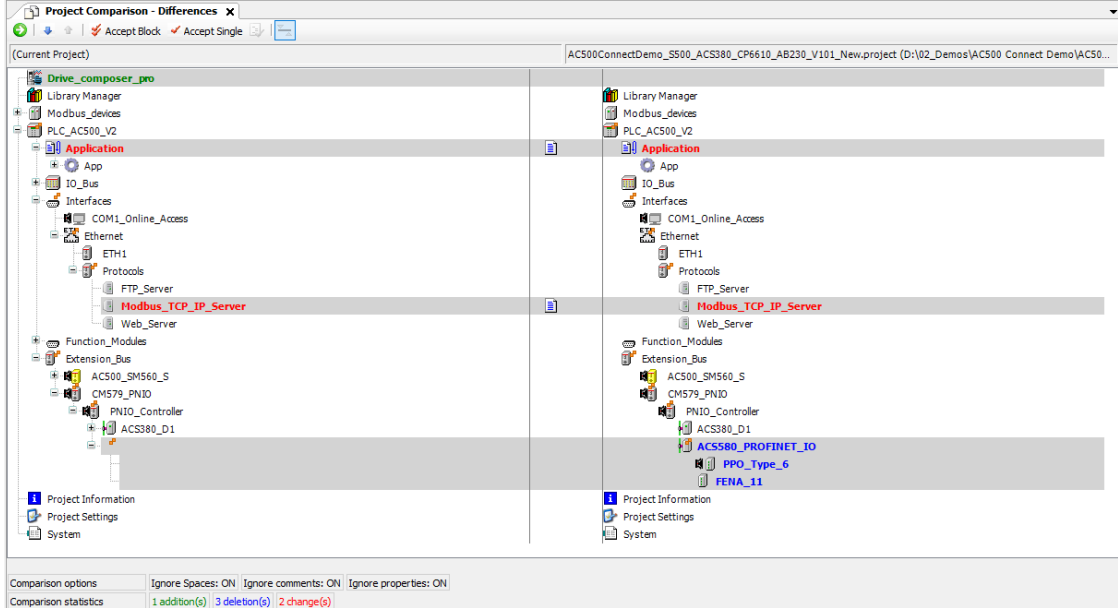
3.2　Workflow

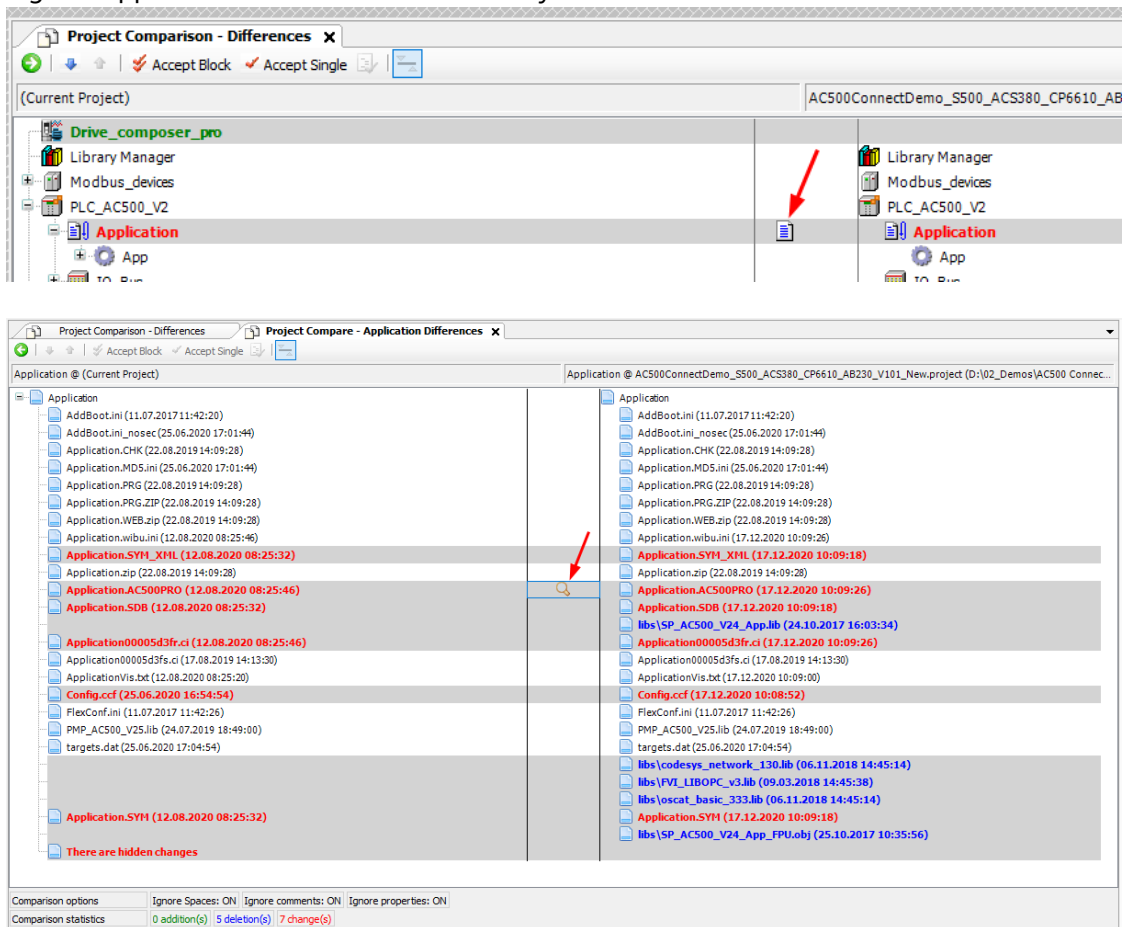1. Open the active project and then select *Project > Compare*

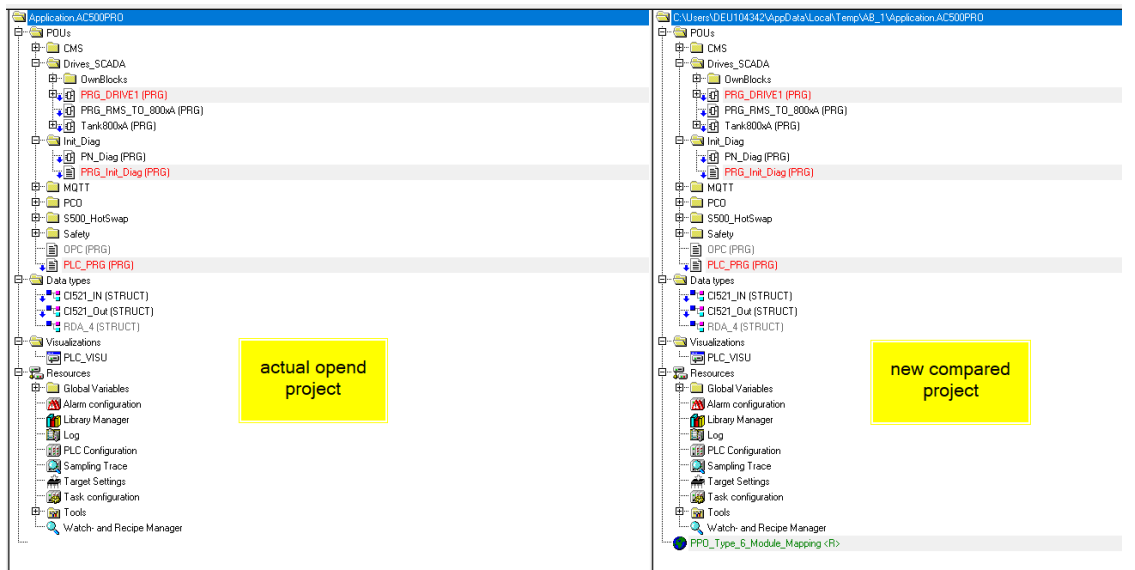2. Select the project to be compared with and the options for the comparison

3. Click *OK* to open the comparison

4. Select the topic which you want to compare more in detail.
   E.g. the Application and click on the middle symbol.

5. Open the programming part by doubleclick to the magnifier glass to check the programming diffrences (IEC programming part for V2 PLC)
   → the IEC61131 editor V2 will open and show the diffrences. (new project on the right)

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6. Open the specific programm parts to review the detailed diffrences.

7. Close the editors by the **X** on top right corner

8. Check also the other diffrences of the project by clicking on the middle symbol
e.g. the Ethernet configuaration

9. **Accept changes**
   Select the parts that should be accepted for one block, or only single parts by selecting them in the overview and click on "**Accept Block**" or "**Accept Single**" in the menu

10. Changes will be taken over / applied from compared project on the right
    to the opened project on the left
    for all accepted parts
    by - closing the Project Compare tab: click on the "**X**"
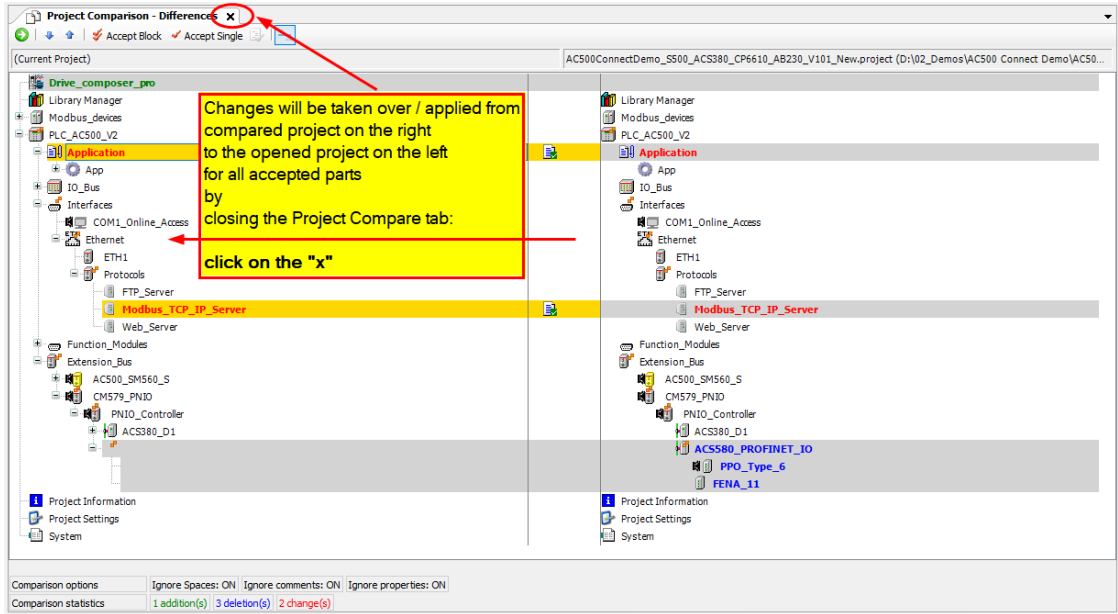
Confirm the dialogue
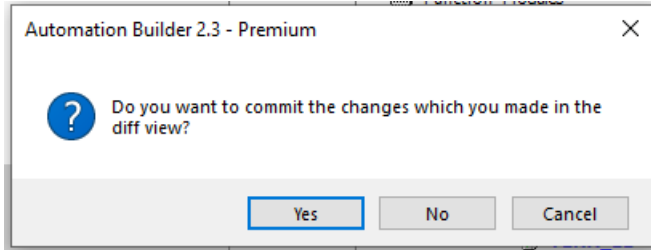
The selected parts are then changed in the opened project
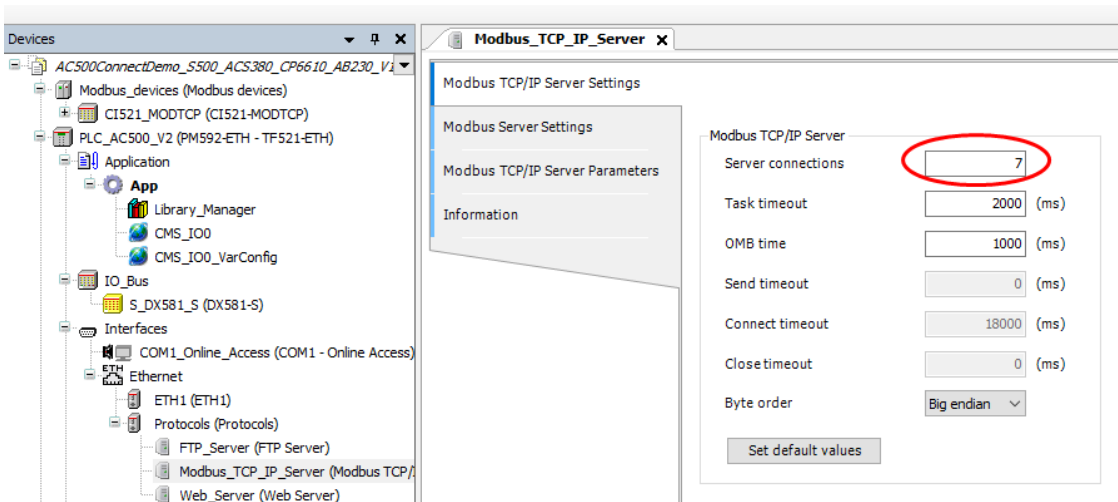
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