Adding TwinSAFE projects to AMI Motors

How to add the twinSAFE Internal Safety Projects to GY and GZ axis

| 🕐 Difficulty **Hard** | 🕐 Duration **15 minute(s)** |

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Comments

Introduction

The AMI8xxx-3100 motor series is a TwinSAFE enabled motor. To enable this motor to work with a non-TwinSAFE system, a TWINSAFE project needs to be placed into the Safety Logic circuit on board the motor. This dokit describes this process.

> 📌 ...The process of DOWNLOADING the TwinSAFE project will need to be done if the motor is replaced

Prerequisites

- TwinCAT machine project connected, scanned and debugged
- Drive Manager 2 Project installed
- AMI motors connected and powered up
- Latest Device Description (ESI) updates - see Updating Device Description Tables
- AMI Motor TwinSAFE Project from Software Versions Board

For instructions on how to create the AMI Motor twinSAFE project from scratch, see AMI TwinSAFE Workaround - Safety Project Creation

Step 1 - Create copies of the safety project

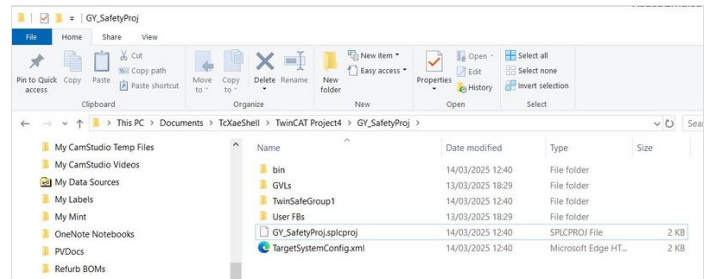Copy the contents of the AMI Motor TwinSAFE project to the BuildNo project folder.

Create a copy for each axis and rename accordingly:

```
GY_SafetyProj
GZ_SafetyProj
```

Step 2 - Rename the project filenames

Open each folder and rename the safety PLC project according to the axis
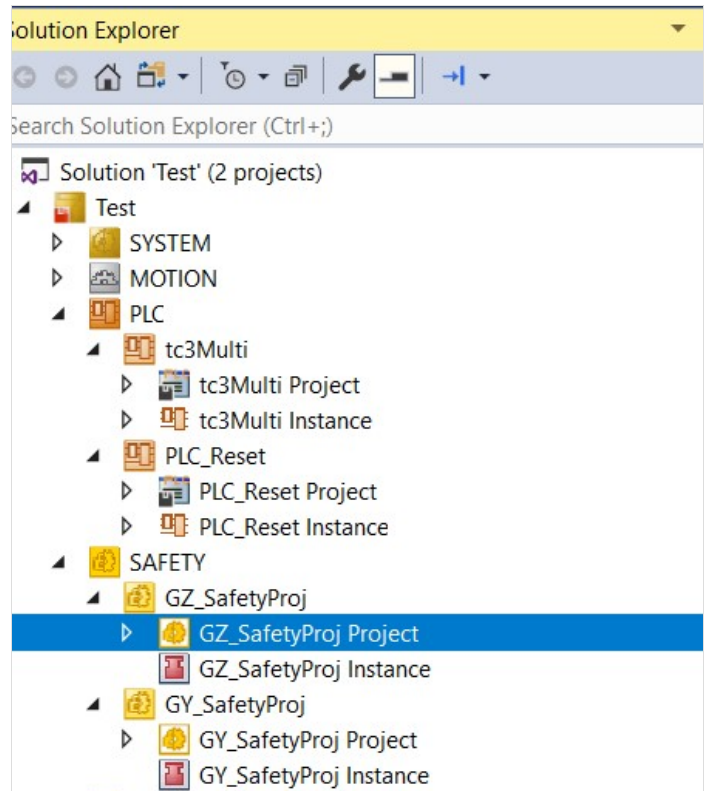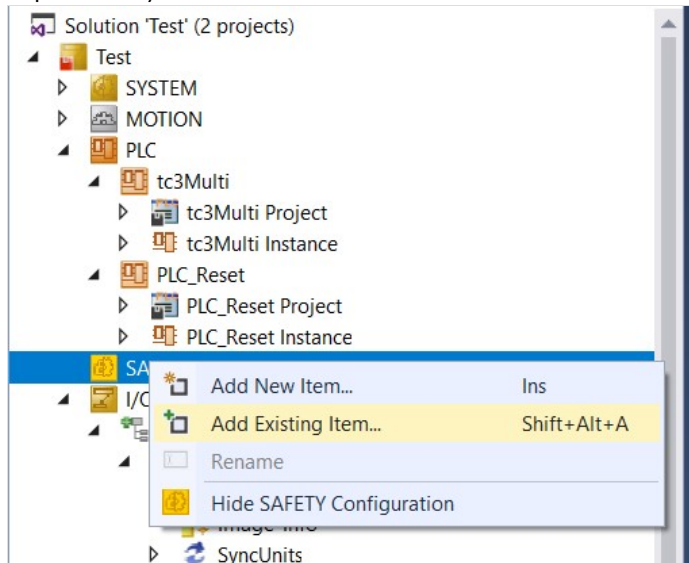

Step 3 - Add to SAFETY

Right click and "Add Existing item"
Navigate Inside the folder and select the "[Axis]_SafetyProj.splcproj"

Repeat for any other axes

Step 4 - Download to Devices

Follow Downloading AMI Motor Safety Project

Step 5 - Repeat

Repeat the whole process for multiple motors