


Full Version Upgrade TwinCAT3 WinMulti

Installing a full system software upgrade on a TwinCAT3 machine

 Difficulty **Medium**

 Duration **1 hour(s)**

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Introduction

If a PC fails on a machine in the field and the hard drive data cannot be recovered, it is necessary to replace the PC. This may create a version conflict, as the new PC will have later versions of twinCAT installed than the original

This tutorial outlines the steps required to bring all the machine systems up to the latest level to ensure compatibility



...This is a one-way process that cannot be reversed

Step 1 - Set up replacement PC from Scratch

Skip this if updating a good PC

Create a TwinCAT Project from Scratch

This procedure ensures that the front end PC has the latest TwinCAT version, and that the PLC source control program is correctly integrated, meaning the latest PLC code version will be available

Step 2 - VM Project update

If VM exists:

Ensure the VM project is up to date with the target

Step 3 - Create Backup Route

Multi folder

Get rid of existing c:\multi - copy

Make a copy of the existing c:\multi as a backup

TwinCAT Project

Right click on Solution and save as archive

Backup the mapping file

Step 4 - Copy latest front end (winmulti) software

Latest version of winMulti software is located at
Software Versions Board

Copy winmulti.exe into c:\multi

Step 5 - Pull the latest back end source code

Make sure Source control is loaded and set up properly

****Link to process****

Step 6 - Ensure the projects are sourced in \source

Right click->Load Project if not

for both tc3Multi and PLC_Reset

Step 7 - Check correct Machine activate

tc3Multi Project->POUs->MAIN

Check remm'd out machines

Right click-> Toggle network comment state for the correct machine type and blank the others

Step 8 - Build Spolution

Step 9 - Import mappings

and check links exist on io blocks

Step 10 - TwinSAFE

Step 11 - Check Firmware version

If not 4024, update

Step 12 - Activate configuration

POINT OF NO RETURN

Click on the activate icon

Step 13 - Check for any update notes

On control Systems board

Control Systems Board

Note previous version

Check on Software versions board to see if any parameter updates are needed

my need params.saw updates

Step 14 - Update Control Systems Log Board

<https://stugaltd.monday.com/boards/304269981>

- Date
 - Front End Version
 - Back End Version
 - BE Firmware
 - Version Control Type
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