Upgrading Project File on TwinCAT2 System

How to load a new project with a TwinCAT2 System

Difficulty Hard		Difficulty	Hard
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Duration 5 minute(s)

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Introduction

How to upgrade the .pro file (project) on a Beckhoff TwinCAT2 system

...TwinCAT2 was used on Early Autoflows and ZX3/4 machines before the adoption of TwinCAT3. Instead of a Visual Studio interface, it uses a program called "TwinCAT PLC Control" to download the PLC project

Step 1 - Check that the machine is running TwinCAT2

Check the Control Systems Log board to look up the machine and the control system used This procedure only applies to TwinCAT2

For TwinCAT3 upgrades use Full Version Upgrade TwinCAT3 WinMulti

Last Update	Control	Drives
17 Oct, 2019 💿	TwinCAT2	Beckhoff AX5000

Step 2 - Transfer the latest .pro file

Latest files are stored in

G:\Builds\Latest Software Versions\Multi.TwinCAT2.

Use teamviewer to copy it across to the machione. The default folder on machines for the projects is c:\TwinCAT\Stuga



Step 3 - Run TwinCAT PLC Control



Step 4 - Open Project



Step 5 - Login

The program will prompt that the program has changed. Click Yes

TwinCAT PLC Control - tcMulti v3.31.pro* - [
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	Logout	F12		
····	Download			
prgUnloadingZX (PRG)	Download			
ProgramBlock_Control (PRG)	Run	F5		
□ □ Program Control	Stop	Shift+F8		
- 🔁 Functions	Reset			
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Brakes (PRG)	Neset All			
Cycle_Control (PRG)	Toggle Breakpoint	F9		
DoMessage (PRG)	Breakpoint Dialog			
Error_Check (PRG)	Step over	E10		
	Step over	FIU		
Estop_Control (PRG)	Step in	F8		
Manual_Control (PRG)	Single Cycle	Ctrl+F5		



Step 6 - Create Boot Project

...This important step fixes the project in memory into the "Boot" of the hard drive. If this is not done, the project will revert back to the old one on restart

TwinCAT PLC Con	ntrol - tcMulti v	3.31.pro* -
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Error_Check (PRG)	Step over	F10
또] Error_Control (PRG)	Step over	E0
Estop_Control (PRG)	Step In	F0
Manual_Control (PRG)	Single Cycle	Ctrl+F5
proBlowers (PBG)	Write Values	Ctrl+F7
proCopyRecipe (PRG)	Force Values	F7
prgEtherCATLog (PRG)	Release Force	Shift+F7
prgLaunchLand (PRG)	Write/Force-Dialog	Ctrl+Shift+F7
prgLinkArrays (PRG)	Think, Force biolog	Curromiterri
prgLinkRecipe (PRG)	Show Call Stack	
Set_Initialise_On (PRG)	Display Flow Control	Ctrl+F11
Spindle Control	Simulation Mode	
	Communication Parameters	
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invert300Hz (FUN)	Sourcecode download	
E- Test	Choose Run-Time System	
Demo_Recipe (PRG)	Create Bootproject	
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