## Updating Beckhoff TwinCAT3 Backend Version

How to update Beckhoff TwinCAT3 on beckhoff PC

Difficulty Easy

Duration 30 minute(s)

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## Introduction

The TwinCAT3 beckhoff systems have a special version of TwinCAT installed - the "Runtime" version XAR (eXtended Automation Runtime). This differs from the full "Engineering version XAE that is installed in the front end and camera PCs in that it is the bare bones of TwinCAT for machine running purposes. It does not have the Visual Studio editor in it.

The runtime version may need updating to 3.4024.xx to allow the latest front end and PLC code to work

### Step 1 - Check the current version

On the desktop of the Beckhoff PC, right click the Twincat Icon in the taskbar and select "About Twincat..."

TwinCAT version is displayed. 3.4024.xx is needed



...The .xx is the build number. Generally, all .xx will be compatible, they release a new build number for bug fixes but will change the main version number when it becomes incompatible

?	<u>A</u> bout TwinCAT	
	Tools	۲
-2	<u>R</u> ealtime Settings	
	Rou <u>t</u> er	۲
	System	•

TwinCAT System S	ervice v3.1.0.2436				
TwinCAT	v3.1.4024.29				
Copyright BECKHO	)FF Automation @ 1996-2021	AMS Net Id:	5.46.11.220.1.1		
Logon User:	Administrator	HW Platform:	performance (40)		
User Group:	Administrators	System Id:	4DD0908F-E590-B352-B038-F5B68CAD2		
		Device Type Id	5CCB9DF3-EEA5-4DA9-3AA0-DBE79848		
Self Signed C	Certificate - Fingerprint:	7D7A3113666B8	821857337C82AC	08712F054E2E875AEDE1	
Self Signed C Licenses: Order No	Certificate - Fingerprint:	7D7A311366688	821857337C82AL	08712F054E2E875AEDE1	
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# Step 2 - Download the XAR version from G Drive

The XAR version, not the FULL version

Download it via teamviewer to the desktop of the Beckhoff PC you are updating

21/0
21/1
08/0
21/0

## Step 3 - Run the update

Double click to run the update Click on ok for all defailts and allow all software from Beckhoff

e W	/indows Security
Wo	ould you like to install this device software?
	Name: Beckhoff Automation TwinCAT PnP Drivers Publisher: Beckhoff Automation GmbH & Co. KG
<b>V</b>	Always trust software from "Beckhoff Automation Install Don't Install On't Install GmbH Co. KG".
۲	You should only install driver software from publishers you trust. <u>How can I decide which device</u> software is safe to install?

### Step 4 - Reload the project

On the "visual Studio" Pc, restart visual Studio and reload the project.

The system may ask to update the Safety Project (if this is a TwinSAFEmachine). This is necessary.

# Step 5 - Activate configuration

# Step 6 - Ensure the PLC code is running

Check the code is running by looking at the version contol file.

 ...If the code is not running, the number highlighted in the orange boxes (version number) will be 0. Correct running will show the first significant digits of the version number - in this case 6.4

If it is not running, restart thie PLC and reload the project and Activate configuration again

If this still does not work, contact Beckhoff or GG

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Exp	pression				Туре	Value
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