Twincat Import

This document describes how to import TwinCAT tags from TMC, TPY, XML files, or directly from the Bechkoff devices into a project; automatically creating thousands of Tags, Templates, and all devices configuration in just a few seconds.

Installation Notes

This feature requires the software version 2014.2.12 or newer. Go to Run > Extensions > Import, and find the TwinCAT option.



Configuration

Double-click the TwinCAT option, and click on the Execute button.

A configuration dialog will appear for the AMS Net Id and AMS Srv Port. This information will be used to create the Device configuration for future communication between the runtime project and the Bechkoff device. Also, it will be used to import the TwinCAT tags directly from the devices.

TwinCAT							
AmsNetID: 192.168.10.1.1.1 AmsSrvPort: 801 Port number is typically 801 or 851							
Ok Cancel							

After adding the AMS Net ID and Port, the TwinCAT import dialog will appear. This dialog contains two options to load the imported TwinCAT tags; Local File or PLC Memory. For the Local File, we need to configure which file you want to import. To configure it, you must use the Filename field and select the file name. TMC, TPY, and XML files are supported.

	Sync	Device Node		
192.168.10.1.1.1;801				
ocal File PLC memory Press Refresh to generate it	ems		Filter by addr	acc*
TagName	Туре	Address	Import New	Description
			_	
	192.168.10.1.1.1;801	Sync 192.168.10.1.1.1;801 cal File PLC memory Press Refresh to generate items TagName Type	Sync Device Node	Sync Device Node

If you choose PLC Memory option, it will connect to the Bechkoff device using the AMS Net Id and Port configured in the previous dialog, and it will get all the TwinCAT tags when you click on the Refresh button. In this case, you do not use the Filename field.

	Sync Device Node		
Node Station: 192.168.10.1.1.1;801 Filename: Load From: O Local File O PLC memory Refresh Press Refresh to generate items			
		Filter by address:	
TagName Type	Address	Import New	Description
			J
		Ok	Cancel

When you click the Refresh button, the TwinCAT tags will be appear for you to select what you want to import to your project. You can use the Import column to enable or disable each specific tag.

			Sync Device Node				
	Node Station: 192.168.10.1.1.1;801						
	Filename: 🧫 C:\PLC515001.	tmc					
1	d From: 🔿 Local File 🏯 DLC mam						
LOa	a rrom: O Local rile O PLC meni	ury					
	Refresh						
					Filter	r by address:	
	TagName	Туре	Address	Import	New	Descrip	tion
	Global_StatusByte_C1	Integer	Global.StatusByte_C1		*		
	Global_StatusByte_C2	Integer	Global.StatusByte_C2	*	*		
	Global_FrequencyDword_C1	Long	Global.FrequencyDword_C1	*	*		
	Global_FrequencyDword_C2	Long	Global.FrequencyDword_C2	*	*		
\$	GVL_MotionControl_g_stDrive	NCTOPLC_A	TEMPLATE:GVL_MotionControl.g_st.	X	*		
	GVL_MotionControl_g_stDrive	NCTOPLC_A	TEMPLATE:GVL_MotionControl.g_st.	. 🛷	*		
	GVL_MotionControl_g_stDrive	NCTOPLC_A	TEMPLATE:GVL_MotionControl.g_st.		*		
	GVL_MotionControl_g_stDrive	NCTOPLC_A	TEMPLATE:GVL_MotionControl.g_st.	. 🛷	*		
	GVL_MotionControl_g_stDrive	NCTOPLC_A	TEMPLATE:GVL_MotionControl.g_st.	. 🛷	*		
	GVL_MotionControl_g_stDrive	NCTOPLC_A	TEMPLATE:GVL_MotionControl.g_st.	. 🛷	*		
	GVL_MotionControl_g_stDrive	NCTOPLC_A	TEMPLATE:GVL_MotionControl.g_st.	. 🛷	*		
	GVL_NozzleControls_g_stNozzl	Integer	GVL_NozzleControls.g_stNozzle[0].l.		*		
	GVL_NozzleControls_g_stNozzl	Integer	GVL_NozzleControls.g_stNozzle[1].l.	- 🛷	*		
	GVL_NozzleControls_g_stNozzl	Integer	GVL_NozzleControls.g_stNozzle[2].l.	 Image: A start of the start of	×⁄		
	GVL_NozzleControls_g_stNozzl	Integer	GVL_NozzleControls.g_stNozzle[3].l.	- V	-		E
						Ok	Cancel

When you finish verifying and selecting the TwinCAT tags, click the Ok button to create the Tags, Templates, Device Channel, Node, and all Points.

After the first import, you have the option to Sync the TwinCAT tags already imported with the current file or device configuration. To do this, go to **Device** > **Nodes**, select the Node, and click on the Sync button.

	Channels	Nodes Points	AccessTypes				
Edit oraw kun init	Protocol: TwinC/ Node: Node1	AT	Help Sync New				
	Drag a column header here to group						
Tags	Name *	Channel	PrimaryStation	BackupStation			
Security	Node1	TwinCAT1	192.168.10.1.1.1;801		Imported node		
Devices							

After the Sync Device Node appears, select the File or PLC and click on the Refresh button. The TwinCAT tags that were already imported will be showed in the list as X.

Sync Device Node						
Node Station: 192.168.10.1.1.1;801						
Filename: 🔜 C:\PLC515001.tmc]					
Load From: 💿 Local File 🌍 PLC memory						
Refresh						
				Filter by address		_
TagName	Туре	Address	Import	New	Description	H
Global_StatusByte_C1	Integer	Global.StatusByte_C1				
Global_StatusByte_C2	Integer	Global.StatusByte_C2				
Global_FrequencyDword_C1	Long	Global.FrequencyDword_C1				
Global_FrequencyDword_C2	Long	Global.FrequencyDword_C2				
GVL_MotionControl_g_stDriveRecip	NCTOPLC_A	TEMPLATE:GVL_MotionControl.g_st				
GVL_MotionControl_g_stDriveRecip	NCTOPLC_A	TEMPLATE:GVL_MotionControl.g_st				
GVL_MotionControl_g_stDriveSpin	NCTOPLC_A	TEMPLATE:GVL_MotionControl.g_st				
GVL_MotionControl_g_stDriveTable	NCTOPLC_A	TEMPLATE:GVL_MotionControl.g_st				
GVL_MotionControl_g_stDriveTurre	NCTOPLC_A	TEMPLATE:GVL_MotionControl.g_st				
GVL_MotionControl_g_stDriveTurre	NCTOPLC_A	TEMPLATE:GVL_MotionControl.g_st				
GVL_MotionControl_g_stDriveTurre	NCTOPLC_A	TEMPLATE:GVL_MotionControl.g_st				
GVL_NozzleControls_g_stNozzle_Ir	Integer	GVL_NozzleControls.g_stNozzle[0].l				
GVL_NozzleControls_g_stNozzle_Ir	Integer	GVL_NozzleControls.g_stNozzle[1].l				
GVL_NozzleControls_g_stNozzle_Ir	Integer	GVL_NozzleControls.g_stNozzle[2].l				
GVL_NozzleControls_g_stNozzle_Ir	Integer	GVL_NozzleControls.g_stNozzle[3].l				2
				Ok	Cancel	