

1. 试用版授权激活

在 TwinCAT3 中可以很方便激活试用版 7 天授权。在不连接网络的情况下,可以根据实际需求重复激活使用。

为此 TwinCAT3 开发环境可以自动检测项目中所需要的授权,并且在运行项目的时候进行提示,比如当项目在本地或者目标控制器中被激活的时候,会提示那些试用版授权应该被激活。

Microsoft Visual Studio	×
Some required	runtime licenses missing. Generate trial licenses
	Yes No Cancel

(1) 在 TwinCAT3 开发环境中也可以手动激活 7 天试用授权,具体步骤如下: 点击 system 下的 license



(2) 在菜单中有 4 个选项

Order Information (R	untime) Mana	ge Licenses	Project Licens	es Online Lice	nses
System Id:	D8F521FD-COFF	-76FE-3F07-1	1C217249BCE		
HW Platform:	other (90)	Acti	vate 7 Days Tr:	al License	
Beckhoff License		Custon	er Id:		
Customer Comment:					
Generate License	Request File.	Acti	vate License Re	sponse File	
Order No		License			Instances
TC1000		TC3 ADS			cpu license
				「山口、山山、二、小山	1 75

Order Information (Runtime): 试用版和正版激活选项 Manager Licenses: 可以手动勾选所需要的 licenses Project Licenses: 当前项目所用到的 licenses Online Licenses: 激活过的 licenses 或者曾经激活过的 licenses

(3) 首先选择 manager licenses, 在 Add License 中勾选所需要的 License

rder Information (Runtime) Manage Lic	enses Project Licenses Online Licenses	
Orden Ne	1	Additioned
Order No	License	Add License
TC1000	TC3 ADS	🔽 cpu license
TC1100	TC3 IO	🔲 cpu license
TC1200	TC3 PLC	Cpu license
TC1210	TC3 PLC / C++	Cpu license
TC1220	TC3 PLC / C++ / MatSim	Cpu license
TC1250	TC3 PLC / NC PTP 10	Cpu license
TC1260	TC3 PLC / NC PTP 10 / NC I	Cpu license
TC1270	TC3 PLC / NC PTP 10 / NC I / CNC	Cpu license
TC1300	TC3 C++	Cpu license
TC1320	TC3 C++ / MatSim	Cpu license
TE1300	TC3 Scope View Professional	Cpu license
TE1400	TC3 Target For Matlab Simulink	Cpu license
TE1410	TC3 Interface For Matlab Simulink	Cpu license
TE1500	TC3 Valve-Diagram-Editor	Cpu license

🔲 Ignore Project Licenses

(4) 之后回到 order information 选型,点击 Activate 7 Days Trial License,随后会 弹出验证码方框,输入 5 位验证码,大小写有区分

Order Information (R	untime) Manage Licenses	Project Licenses	Online Licenses	License Device
System Id:	Target Hardware Id	▼ Pla	tform:	
991499C3-2D00	C-AC1B-E071-9EC02F58D53	7 ec	onomy plus (30)	
License Request	t			
Provider:	Beckhoff Automation	•	Generate File	
License Id:		Customer Id:		
Comment:				
License Activatio	n			
7 Day	rs Trial License	License	Response File	

Enter Security Code	23
Please type the following 5 characters:	ОК
zECew	
zECew	Cancel

(5) 输入正确后点击 OK 会弹出窗口告知 7 天的试用版 license 已经生成,这样我们就可以有 7 天的授权可以用,如果过期了再次用同样的方法激活就可以了



Q: 在对目标控制器操作 7 天试用版激活的时候,发现目标控制器始终无法切换到 run-mode,并且在 license 选项卡中发现所做 7 天授权当前状态如下: license issue time in the future?

der Information (Runtime)	Manage Licenses	Project License	es Online Licenses Lice	ense Device		
System Id:	Target Hardware Id 👻		Target Hardware Id			Platform:	
0502CB8C-4E	45-7ED3-I	F071-5E450B127C5	0	performance plus (50)			
License Reque	st						
Provider:	Beckhoff	Automation	•	Generate File			
License Id:			Customer Id:				
Comment:	[
License Activat	tion						
7 Da	ays Trial Li	cense	Licen	se Response File			
Order No		License		Instances	Current Status		
TC1200		TC3 PLC		cpu license	license issue time in the future -> check system time		

A: 主要原因是目标控制器的系统时间和本地 PC 不一致导致, 解决方式只需要把目标控制器系统时间手动修改成和本地 PC 一直即可。

2. IPC/EPC 中的完整版授权激活

通常 TC3 授权和硬件一起购买是不需要我们自己完成授权工作的,只有当授 权单独购买,或者后续补丁授权,就需要自己完成这些步骤。 (1)首先选择 manager licenses,在 Add License 中勾选所需要的 License

Order Information (Runtime)	Manage Licenses	Project Licenses	Online Licenses	
Order No	Lie	cense		Add License
TC1000	тс	3 ADS		🔽 cpu license
TC1100	тс	C3 IO		Cpu license
TC1200	тс	C3 PLC		Cpu license
TC1210	тс	C3 PLC / C++		Cpu license
TC1220	тс	3 PLC / C++ / Mat	Sim	Cpu license
TC1250	тс	3 PLC / NC PTP 10		Cpu license
TC1260	тс	3 PLC / NC PTP 10	/ NC I	Cpu license
TC1270	тс	3 PLC / NC PTP 10	/ NC I / CNC	Cpu license
TC1300	тс	C3 C++		Cpu license
TC1320	тс	C3 C++ / MatSim		Cpu license
TE1300	тс	3 Scope View Prof	essional	cpu license
TE1400	тс	3 Target For Matla	b Simulink	Cpu license
TE1410	тс	3 Interface For Ma	tlab Simulink	Cpu license
TE1500	TC	3 Valve-Diagram-E	ditor	Cpu license

🔲 Ignore Project Licenses

(2)如果希望自由选择某些 license 不受当前项目应用所影响,可以通过勾选左下角的 lgnore Project Licenses,这样有助于后期补丁某些授权从而完成激活

Order No	License	Add License	System Id
TC1000	TC3 ADS	Cpu license	
TC1100	TC3 IO	Cpu license	
TC1200	TC3 PLC	Cpu license	
TC1210	TC3 PLC / C++	Cpu license	
TC1220	TC3 PLC / C++ / MatSim	Cpu license	
TC1250	TC3 PLC / NC PTP 10	Cpu license	
Ignore Pro	oject Licenses		
	TC1100 TC1100 TC1200 TC1210 TC1220 TC1220 TC1250	TC1000 TC3 ADS TC1100 TC3 IO TC1200 TC3 PLC TC1210 TC3 PLC / C++ TC1220 TC3 PLC / C++ / MatSim TC1250 TC3 PLC / NC PTP 10 Ignore Project Licenses Icenses	TC1000 TC3 ADS cpu license TC1100 TC3 IO cpu license TC1200 TC3 PLC cpu license TC1210 TC3 PLC / C++ cpu license TC1220 TC3 PLC / C++ / MatSim cpu license TC1250 TC3 PLC / C++ / MatSim cpu license TC1250 TC3 PLC / NC PTP 10 cpu license Ignore Project Licenses Image: Comparison of the project License

(3) 随后回到 Order Information:

System Id: 无需填写,只需要确认授权所激活的 PC 或者目标控制器,如果是目标控制器需要连接目标控制器,这里就会显示目标控制器的 Systme Id,否则就 是本地 PC

Platform: 无需填写, 只需要确认订单

License Id: 输入购买 License 时候的订单号,如果不知道可以咨询倍福销

Customer Id: 可以任意输入一些数字或者字母(也可以空着不填),通常会填公司名称或者用户名

Solution Explorer 🔹 🖣 🗙	PLC_LicensingTes	t + ×			-
 Solution 'PLC_LicensingTest' (1 project) PLC_LicensingTest SYSTEM Elicense Real-Time Tasks Routes TcCOM Objects MOTION PLC SAFETY C++ I/O 	Order Information System Id: DCFBB578-D License Requ Provider: License Id: Comment: License Active 7 D	(Runtime) Manage License Target Hardware Id 01C8-F59C-A6B4-C9A0B2D00 est Beckhoff Automation 47110815 ation Days Trial License	s Project License 22F6 Customer Id: Licen	es Online License Platform: other (90) Generate Fil se Response File	s License Device
	Order No	License	Ins	tances	Current Status
	TC1200	TC3 PLC	ср	u license	expires on Oct 14
					-

(4) 随后点击 Generate File,系统会生成一个 license 的请求文件,保存到任意 位置



(5) 随后弹出对话框询问是否要把此文件发送到 beckhoff



点击"Yes"

(6)随后系统就会以邮件方式帮您发送到一个固定邮箱 <u>tclicense@beckhoff.com</u>, 邮件内容包含了你所申请的 license 和申请文件,申请文件中包括了您的订单号 信息,您的用户名信息,您所要激活的这台电脑的 HW 等,当然如果在当前电脑 不方便发邮件,或者没有网络,也可以把此文件拷贝出来,在其他电脑中发送此 文件到固定邮箱中

	То	tclicense@beckhoff.com				
Send	Subject:	TwinCAT License Request - 47110815 - 3456321				
20114	Attached:	TLR BI 47110815 CI 3456321.tclrg (5 KB)				
Licens	e 'TC3 PLC'	OrderNo 'TC1200'				

(7)如果德国收到邮件后核实相关信息没有错误后,就会返回一个邮件给你,并返回一个激活文件给你,随后点击 Activate License Response File 把激活文件导入就注册正式版成功

Solution Explorer 🔷 🔻 🕈	PLC_LicensingTes	t -9 ×			
 Solution 'PLC_LicensingTest' (1 project) PLC_LicensingTest SYSTEM 	Order Information System Id:	(Runtime) Manage Licens	es Project License	es Online Lice	nses License Device
License Geal-Time Bracks	DCFBB578-0	01C8-F59C-A6B4-C9A0B2D	082F6	other (90)	
Routes Routes COM Objects MOTION PLC SAFETY C++ VO	Provider: License Id: Comment:	Beckhoff Automation 47110815	Customer Id:	Generate	P File
v 🔽 00	71	Days Trial License	Licen	se Response Fi	ie
	Order No	License	Ins	tances	Current Status
	TC1200	TC3 PLC	ср	u license	expires on Oct 14

(8) 导入返回的激活文件

)pen					? ×
Look in:	Desktop		• 0	1 📂 🖽 -	
My Recent Documents	My Documer My Compute My Network	nts er Places ionse			
Desktop					
My Documents My Computer					
🧐 My Network	File name:	LicenseResponseFile		•	Open
Places	Files of type:	TwinCAT License Respo	onse File (*.tclrs)	•	Cancel

(9) 提示以下对话框就说明注册成功,点击 OK 即可

TwinCAT	XAE
(i)	License response file 'TwinCAT Project8.tclrs' registered
4	'TrialLicense.tclrs' removed
	Restart TwinCAT to activate licenses
	ок

(10)最后注意下这个 license 文件会自动复制到 C:\TwinCAT\3.1\Target\License 中,如果目标控制器是 CE 操作系统,此文件在\Hard Disk\TwinCAT\3.1\Target\License 中,请备份以免激活文件丢失。

3. Dongle 的使用与授权的激活(TC3.1.4020 老版本)

3.1 从 TC3.1.4018.26 开始支持 EL6070 这种模块式组件作为授权工具



(1) 首先在 EtherCAT 总线中扫描到 EL6070



(2)在 SYSTEM→License 中选择 License Device 选择 Dongle 后,点击 Search

Solution 'TwinCAT Project9' (1 project)	Order Information (Runtime)	Manage Licenses	Project Licenses	Online Licenses	License Device
SYSTEM License 2	Hardware				
Tasks 読 Routes IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Oongle (EtherCAT Te	minal EL6070, USB	5	Search	
MOTION					
SAFETY C++ I I/0					
 ▲ Pevices ▲ Device 1 (EtherCAT) ▲ I Term 1 (EK1200) 					
1 [# Term 2 (EL6070)] Term 3 (EL9011)					
 Tevice 2 (USB) Ecore Box 5 (C9900-L100 License-Key-USB-Stick) BoxInfo 					
Appings					

(3) 弹出窗口选择 EL6070, 点击 OK

Select I/O Box/	Terminal		23
Name		Comment	
(none) Term 2 (EL6070))	EL6070 1Ch. Licensing-Terminal	
•	III		Þ
	Onused	🛛 🛛 ОК	
	All	Cancel	

(4)回到 Order Information,在 System Id 中下拉框选择 Dongle Hardware Id

rder Information	(Runtime)	⁸ Jge Licenses	Project Lice	enses	Online Licenses	License Device
System Id: 2F1F30E0-98 License Requ	Dongle Hard Target Hardy Dongle Hardy Dongle Volur est	ware ld ware ld ware ld ne ld	<u>0</u>	Pla ec	tform: conomy plus (30)	
Provider:	Beckhoff Aut	omation	-		Generate File	
License Id:			Customer Id	:		
Comment:						
License Activ	ation Days Trial Licen	se	Lio	cense	Response File	
Order No		License		Insta	nces	Current Status
TC1100		TC3 IO		cpu l	icense	missing

(5)最后输入 License Id,点击 Generate File 生成授权申请文件发送给固定邮箱,就可以得到授权响应文件

rder Information	(Runtime) Ma	anage Licenses	Project Licer	ises	Online Licenses	License	Device
System I(11) 2F1F30E0-98 License Requ Provider: License Id:	Dongle Hard B18-9EF4-59BB est Beckhoff Au VE12345674	ware Id -BC386EA108F8 tomation 8 13	▼ 3 12 ↓ Customer Id:	Pla	tform: conomy plus (30) Generate File		14
License Activa	ation Days Trial Licen	se	Lice	ense	Response File		
Order No		License	1	Insta	nces	Current	t Status
TC1100		TC3 IO		cpu l	icense	missing)

3.2 从 TC3.1.4018.26 开始支持 C9900-L100 这种 USB 类型组件作为授权工具



(1) 首先在 USB 接口中扫描 C9900-L100



(2) 在 SYSTEM→License 中选择 License Device 选择 Dongle 后,点击 Search

Image: Solution 'TwinCAT Project9' (1 project) Image: TwinCAT Project9' (1 project) Image: SySTEM Image: SySTEM	Order Information (Runtime) Manage Licenses Project Licenses Online Lic 3 License Device Hardware Target Hardware Target Hardware Dongle (EtherCAT Terminal EL6070, USB) 5 Search Dongle Status System Id: Volume Id: Public Key: Status Linknown
	Reload Info Store License on Dongle Clear Dongle Storage Cache Dongle Licenses Update license cache using dongle content on startup

(3) 弹出窗口选择 C9900-L100, 点击 OK

Select I/O	Box/Terminal		23
Name		Comment	
(none) Box 5 (C990)	D-L100 License-Key-USB-Stick	C9900-L100 License-Key-U	SB-Stick
•	III		۴.
	💿 Unused 🛛 📀	ОК	
	© All	Cancel	

(4) 回到 Order Information,在 System Id 中下拉框选择 Dongle Hardware Id

Order Information (Runtime)	⁸ Jge Licenses	Project License	s Online Licenses	License Device
System Id: Dongle Hard 2F1F30E0-98 Dongle Hard Dongle Hard Dongle Volur License Request Provider: Beckhoff Aut	ware Id ware Id ware Id ne Id omation		Platform: economy plus (30) Generate File	
License ld: Comment:		Customer Id:		
License Activation 7 Days Trial Licen	se	Licens	se Response File	
Order No	License	Ins	tances	Current Status
TC1100	TC3 IO	ср	u license	missing

(5)最后输入 License Id,点击 Generate File 生成授权申请文件发送给固定邮箱,就可以得到授权响应文件

rder Information (Runtime) Ma	anage Licenses	Project Lice	nses	Online Licenses	License	Device
System I Dongle Hard 2F1F30E0-9818-9EF4-59BB	ware Id -BC386EA108F8	₹ 3 12	Pla ec	tform: conomy plus (30)		
License Request			_			
Provider: Beckhoff Au	tomation	-		Generate File		14
License Id: VE12345678 (13 Customer Id:						
Comment:						
License Activation						
7 Days Trial Licen	se	Lic	ense	Response File		
	1				0	
Order No	License		Insta	nces	Curren	t Status
TC1100	TC3 IO		cpu li	icense	missing	9

- 3.3 EL6070 和 C9900-L100 如何使用
- (1)得到授权响应文件后,我们需要对 dongle 进行授权,返回到 License Device

ar 2200r 0, 000 j		Search	
38538-8275-917B-6	AF-C6CED59	DE27	
45B197E331C801C	4E3893B810FE	ODE9760FF0C6EF	DEB2
d			
- -	338538-8275-9178-6 45B197E331C801C id	338538-8275-917B-61AF-C6CED59F 45B197E331C801C4E3893B810FE id	338538-8275-917B-61AF-C6CED59FDE27 45B197E331C801C4E3893B810FE0DE9760FF0C6EF(id

因此只需要通过 Download License To Device 就可以把 license 下载到 EL6070 或 C9900-L100 中, 使其真正变成移动式授权设备。

(2)完成所有步骤后,每次在 IPC 中插入 C9900-L100 或者在 EPC 后加入 EL6070,并且成功扫描上来后,在 License Device 中都会自动弹出窗口激活 license 到目标系统中,点击"是"就会自动把 dongle 中所存储的 license 全部拷贝到目标文件夹下 C:\TwinCAT\3.1\Target\License 中,如果目标控制器是 CE 操作系统,此文件在 \Hard Disk\TwinCAT\3.1\Target\License 中

Microsoft Visual Studio	\times
? Activate stored license(s) on target	
是(Y) 否(N)	

因此只需这2步操作就可以轻松利用 dongle 对目标系统完成授权。

4. Dongle 的使用与授权的激活(TC3.1.4022 新版本)

4.1 从 4022 版本开始 Dongle 可以实现只需配置一次即可自适应,并且配置过程少许发生了 变化

(1) 首先需要在 license 中添加一个 dongle,可以右键 license 进行添加,也可以直接在 license →Order Information 中点击 Add 完成添加

Order Information	(Runtime) Manage Licenses Project Licenses Online Licenses
Solution 'TwinCAT Project2' (1	project)
TwinCAT Project2	re Id) 🔻 Add
	Platform:
	C7707
N A Back Time	Add New Item.
v v Real-Time	
lasks	
a Routes	n 🗸 Generate file
Type System	Customer
TcCOM Objects	
Comment.	
-License Actives	tion
Solution Explorer • 4 X	
◎ ◎ ☆ ◎ • ▣ ፆ -=	License Device
Search Solution Explorer (Ctrl+;)	Hardware
Solution 'TwinCAT Project2' (1 project)	Dongle (EtherCAT Terminal EL6070, Search
TwinCAT Project2	
A license	Dongle Status
Dongle 1	System Id:
Real-Time	Volume Id:
🎁 Tasks	Public Key:
Btg Koutes	Serial number:
TcCOM Objects	Status:
MOTION	Reload Info
PLC	
SAFETY	Store License on Dongle Lear Dongle Storag Cache Dongle Licenses
≥ Z I/O	Update license cache using dongle content on

(2) 随后点击 Search 选择已经扫描到的 Dongle(也可以同事配置多个 Dongle)

Solution 'TwinCAT Project'	License Device	
TwinCAT Project	Hardware	
 SYSTEM License 	Dongle (EtherC	AT Terminal EL6070, USB) Search
🔝 Dongle 1 💻	Box 2 (C9900-I	L100 License-Key-USB-Stick)
Dongle 2	- Dongle Status -	
Real-Time	System Id:	3B3B7EBD-8141-CF34-3B63-D37D79C60A8A
圖 Tasks 謡 Routes	Volume Id:	
Type System	Public Key:	CC6314B0F6221EE0BAADD01BFF6518CCD03D8C050E35E4
TcCOM Objects	Serial number:	110010480
	Status:	Valid
SAFETY		Reload Info
‰. C++		na an Danada - Carana Danada Uranana - Caraha Danada Uranana
V 🔽 10	Store Licen	se on Dongle Ucear Dongle Storage Cache Dongle Licenses
	Update licer	nse cache using dongle content on startup

(3) 通过右键 Dongle 也可以删除



(4)回到 Order Information,可以针对所勾选的授权指定其激活在什么硬件设备中(Dongle 还是 EPC/IPC),选中任意授权都可以在 license Device 下拉框选择 Target(Hardwar Id)还是 Dongle1(Hardware Id)

License De	evice Targ	get (Hardware Id)				▼ Add		
System Id:				I	Platform:	:		
E0A7CC86-A9A0-C565-795F-68B7A8318BC5 other (90)								
License Re	equest							
Provider:	Beckhoff	Automation		-	(Generate File		
License Id	:	License Id: Custor						
Comment:								
Comment:								
Comment: License Ac	tivation 7 Days Trial Lic	cense		Lic	ense Re	esponse File		Current Statur
Comment: License Ac	tivation 7 Days Trial Lic License	c ptp 10		Lic Instar	ense Re	esponse File		Current Status
Comment: License Ac Order No TC1250	tivation 7 Days Trial Lic License TC3 PLC / N	cense C PTP 10		Lic Instar cpu li	ense Re nces	License File License Device Dongle 1 (Hardware	Id) 💌	Current Status missing
Comment: License Ac Order No TC1250 TE1300	tivation 7 Days Trial License TC3 PLC / N TC3 Scope V	c PTP 10 Tiew Professiona		Lic Instar cpu li cpu li	eense Re nces icense icense	esponse File License Device Dongle 1 (Hardware Dongle 1 (Hardware	Id) 💌	Current Status missing missing
Comment: License Ac Order No TC1250 TE1300 TE1400	tivation 7 Days Trial License TC3 PLC / N TC3 Scope V TC3 Target F	C PTP 10 C PTP 10 For Matlab Simu) []	Lic Instar cpu li cpu li cpu li	nces icense icense icense	esponse File License Device Dongle 1 (Hardware Dongle 1 (Hardware Id	Id) <u>•</u> Id) <u>•</u>	Current Status missing missing missing

(5)在 Order Information 最上面的 License Device 中也选择 Dongle1 (Hardware Id),这样就可以把 System Id 从控制器切换到 Dongle

der Informat	on (Runtime) Manage Licenses P	roject Licenses	Online Licenses			
License De	avice Target (Hardware Id)		Add			
System Id:	System Id: Dongle 1 (Hardware Id)					
E0A7CC8	E0A7CC86-A9A0-C565-795F-68B7A8318BC5 other (90)					
License Re	quest					
Provider:	Beckhoff Automation	•	Generate File			
License Id	Cus	tomer Id:				
Comment:						
License Activation 7 Days Trial License License Response File						
Order No	License	Instances	License Device	Current Status		
TC1250	TC3 PLC / NC PTP 10	cpu license	Dongle 1 (Hardware Id) 👱	missing		
TE1300	TC3 Scope View Professional	cpu license	Dongle 1 (Hardware Id) 💌	missing		
TE1400	TC3 Target For Matlab Simulink	cpu license	Target (Hardware Id)	missing		
TE1410	TC3 Interface For Matlab Simulin	k cpu license	Target (Hardware Id)	missing		

(6)新版本在配置 dongle, 尤其是 platform 十分方便, 可以通过下拉框选择所购买的等级。

Under Informat License De System Id: E0A7CC8	ion (Runtime) Manage Licenses Proje evice Dongle 1 (Hardware Id) 6-A9A0-C565-795F-68B7A8318BC5	ect Lic	Platform Other (9 other (9 other (9	Online Licenses Add n: 90) 91)
License Re Provider: License Id Comment:	Beckhoff Automation Custor tivation 7 Days Trial License	other (9 other (9 other (9 micro (1 econom performa performa mid perf high per very hig very hig	92) 93) 94) (10) my (20) my plus (30) nance (40) nance plus (50) rformance (60) erformance (70) igh performance (81) gh performance (81)	
Order No	License Inst		a very hig	gh performance (82) gh performance (83) Current Status
TC1250	TC3 PLC / NC PTP 10	cpu	very hig	gh performance (84) Punger (manware Id) rissing
TE1300	TC3 Scope View Professional	cpu	license	Dongle 1 (Hardware Id) 🗾 missing
TE1400	TC3 Target For Matlab Simulink	cpu	license	e Target (Hardware Id) 🔽 missing
TE1410	TC3 Interface For Matlab Simulink	cpu	license	Target (Hardware Id) <u>missing</u>

PS: TE(Engineering 授权选择 94 完成授权申请)

(7)最后输入 License Id,点击 Generate File 生成授权申请文件发送给固定邮箱,就可以得 到授权响应文件

)rder Informati	ion (Runtime) Manage Li	censes Projec	t Licenses 0	Online Licenses
License Device Dongle 1 (Hardware Id) Add System Id: Platform: 30F57BCD-E128-9B43-0445-68699F53746E other (94)				
License Id: 1234567 Customer ABCD				
Comment:				
License Activation 7 Days Trial License License Response File				
Order No	License	Instances	License TAN	License Device
TC1200	TC3 PLC	cpu license		Target (Hardware 💌
TE1400	TC3 Target For Matl	cpu license		Dongle 1 (Hardwa 💌

4.2 EL6070 和 C9900-L100 如何使用

(1) 授权响应文件后,我们需要对 dongle 进行授权,返回到 Dongle

License Device

Dongle (EtherCAT	Terminal EL6070, Search
Box 2 (C9900-L100) License-Key-USB-Stick)
Dongle Status	
System Id:	30F57BCD-E128-9B43-0445-68699F53746E
Volume Id:	
Public Key:	D763D33CD0852F18E78D39B58655B158AF4B329B47BF459D
Serial number:	0
Status:	Valid
	Reload Info

🔽 Update license cache using dongle content on

点击其中的 Store License on Dongle,把授权响应文件导入到 Dongle 即可完成 dongle 的授权 绑定工作

(2)完成所有步骤后,每次在 IPC 中插入 C9900-L100 或者在 EPC 后加入 EL6070,并且成功 扫描上来后,在 License Device 中都会自动弹出窗口激活 license 到目标系统中,点击"是"就 会自动把 dongle 中所存储的 license 全部拷贝到目标文件夹下 C:\TwinCAT\3.1\Target\License 中,如果目标控制器是 CE 操作系统,此文件在\Hard Disk\TwinCAT\3.1\Target\License 中



(3)或者手动点击 Cache Dongle Licenses 也可以把授权文件导入到目标设备中。 新版本针对第一次使用的目标设备只需配置一次即可,之后就可以即插即用无需配置。



5. 申请授权报错汇总

无论对于 IPC/EPC 还是对于 dongle 进行授权单独申请的时候,都需要发送申请文件到德国固定邮箱,从而得到响应文件,才可以完成授权激活,但在这个过程中,由于各种原因,难免会有申请失败的情况,不过德国服务器也会针对这个问题返回一些错误代码,比如如下截图:



下面列表就是一些常见错误,以及原因和解决方式

Error ID	Explanation	Procedure
999	The number of product licenses requested in the request file is no longer available for the specified order number.	Please ensure that you have ordered the correct number of licenses, and that these have not already been activated on other devices.
		Check that no licenses are included in the License Request file, which are not included in the order. (The License Request file is an XML file and can easily be opened with suitable editors, e.g. Notepad++.)
		For general queries relating to your order please contact your Beckhoff sales contact, referring directly to the Beckhoff order number.
		If the licensing attempt is linked to a hardware replacement, please contact Beckhoff Service.
1000	The order number specified in the request file does not exist.	Please ensure that you have used the correct order number in the "License ID" field. Generate another TwinCAT 3 request file and send it to tolicense@beckhoff.com. For general queries relating to your order please contact your Beckhoff sales contact, referring directly to the Beckhoff order number (VExxx).
1100	The licenses requested in the request file are not included in the specified order number.	Please ensure that you only request licenses, which you have actually ordered. In case of queries please contact your Beckhoff sales contact, referring directly to the Beckhoff order number (VExxx).
1200	The transmitted request file does not contain an order number.	Please generate another request file. Ensure that the Beckhoff order number (VExxxx) pertaining to your TwinCAT 3 order was entered in the "License ID" field.
1300	The transmitted request file does not contain an system ID.	Please check whether the correct target system is set! Once the target system has been set, generate another request file and send it to tclicense@beckhoff.com. If the error message persists, please contact Beckhoff Support.
1400	The transmitted request file does not contain a license.	Please check that the required licenses are listed in the "Order Information" tab. All the licenses required by TwinCAT 3 solution are automatically entered there by default. Should this not be the case, please enter the licenses manually via the Manage Licenses tab.
1500	The request file you sent is not readable.	Please generate another TwinCAT 3 request file via TwinCAT XAE and send it to tclicense@beckhoff.com. If the error message persists, please contact Beckhoff Support.

注意:如果返回的 Error ID 在上面列表中不存在,可以等待一段时间,尝试再次 发送申请文件到德国固定邮箱