BACtwin Forum 2026 in Mainz

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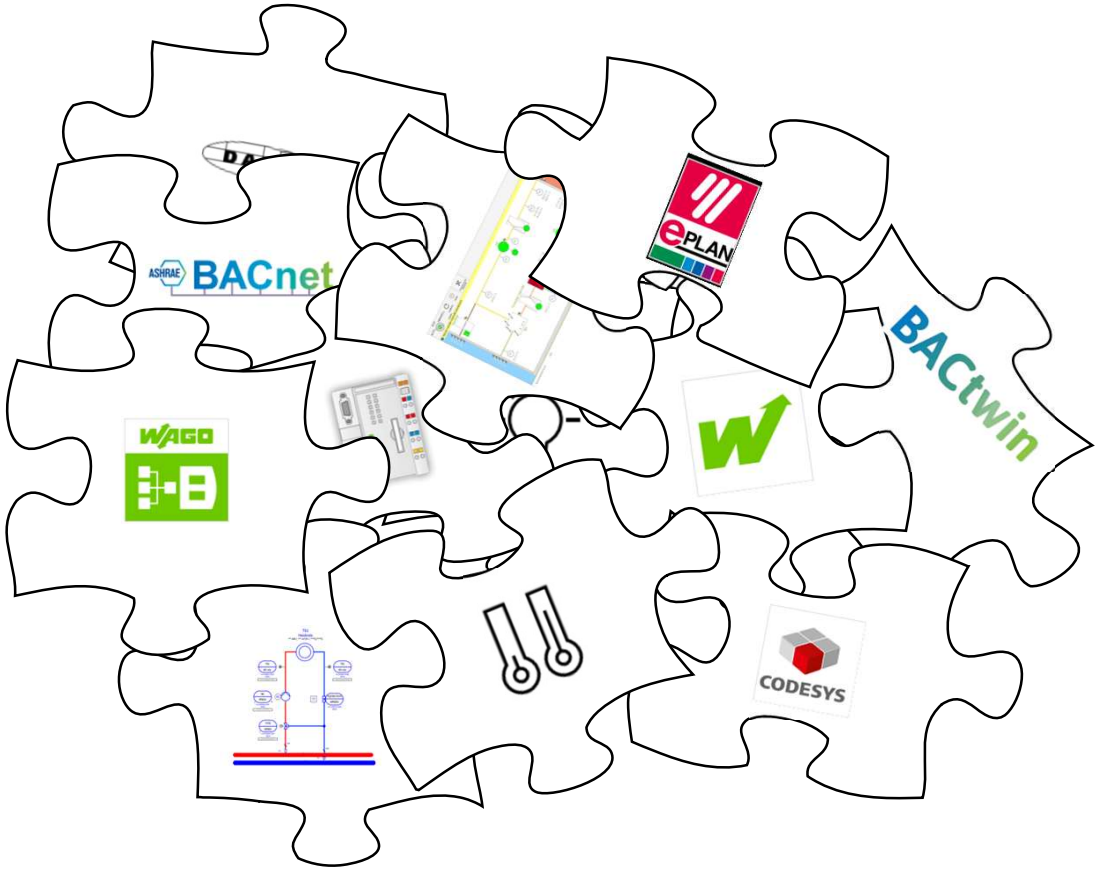
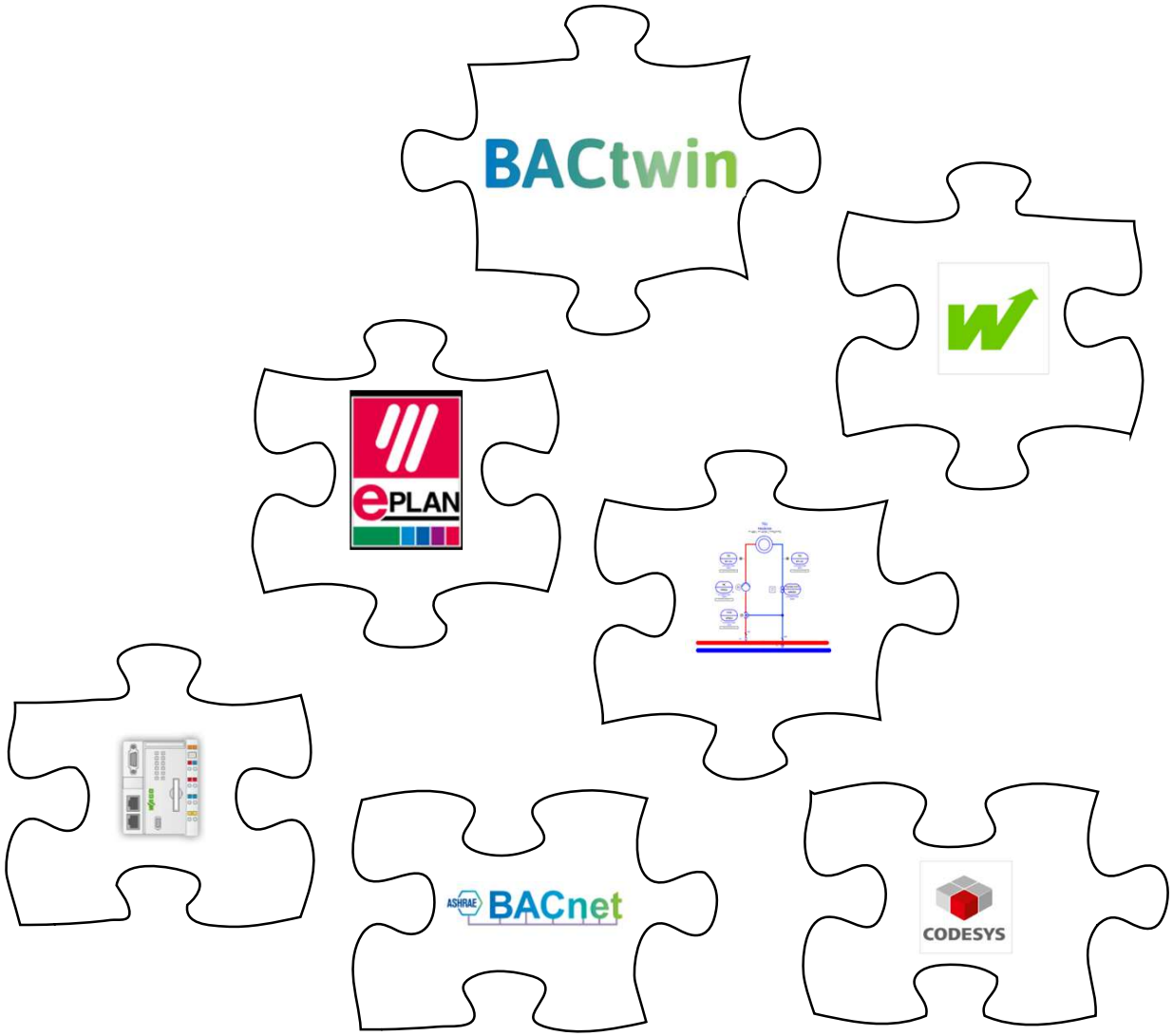
Gebäudeautomation



Gebäudeautomation

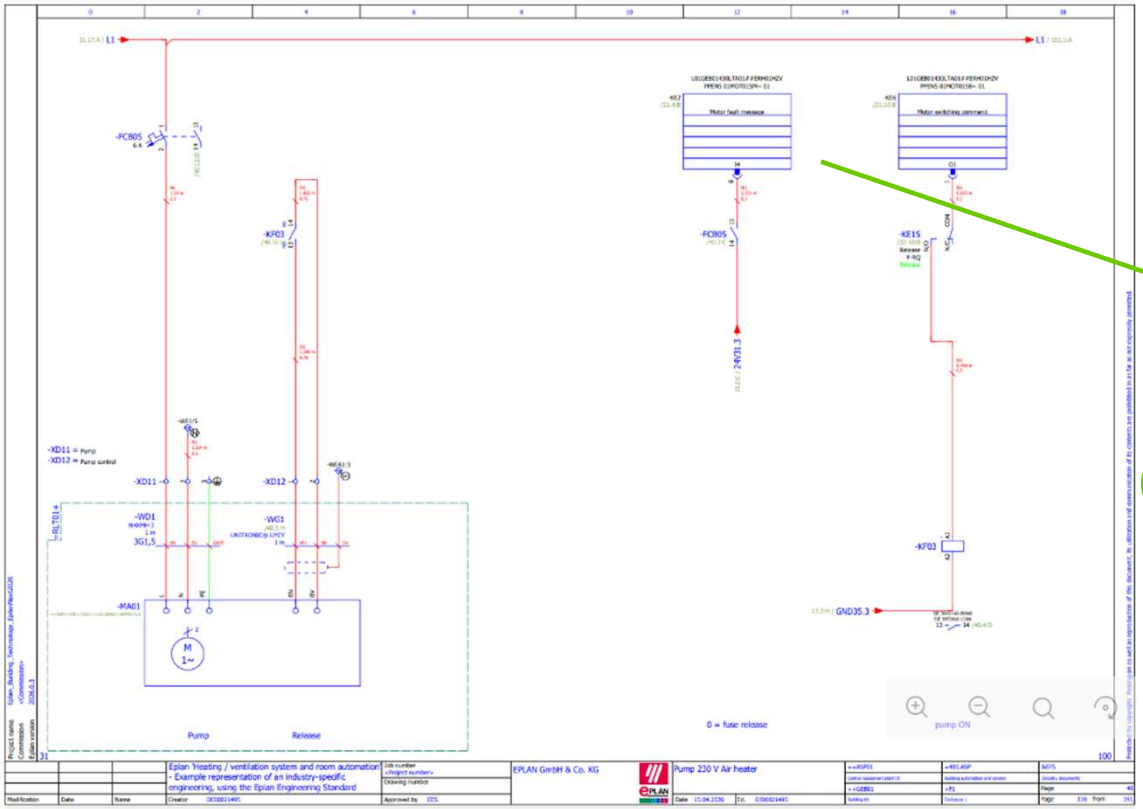
Aufgabenstellung:

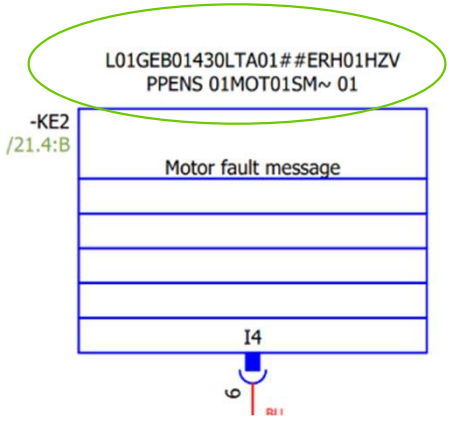
- Projekt anlegen und verwalten
- Datenübernahme aus der Vorplanung
- Geräteverwaltung
- Anlagenkennzeichnungsschlüssel
- Maschinenlesbare Daten erzeugen
- Basis Konfiguration / Programme erzeugen
- Feldbuskonfiguration / BACnet
- Sicherheit
- Dokumentation



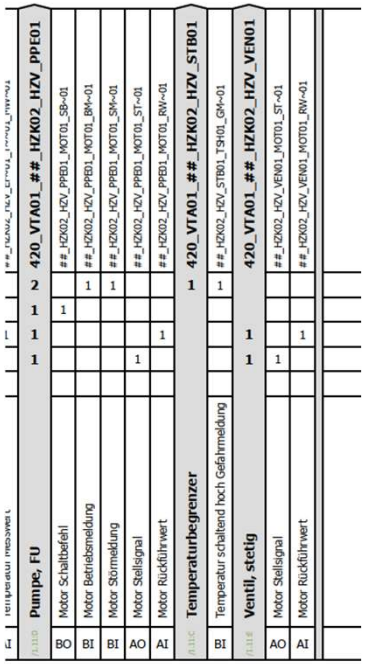
Gebäudeautomation

Datenübernahme aus der Vorplanung





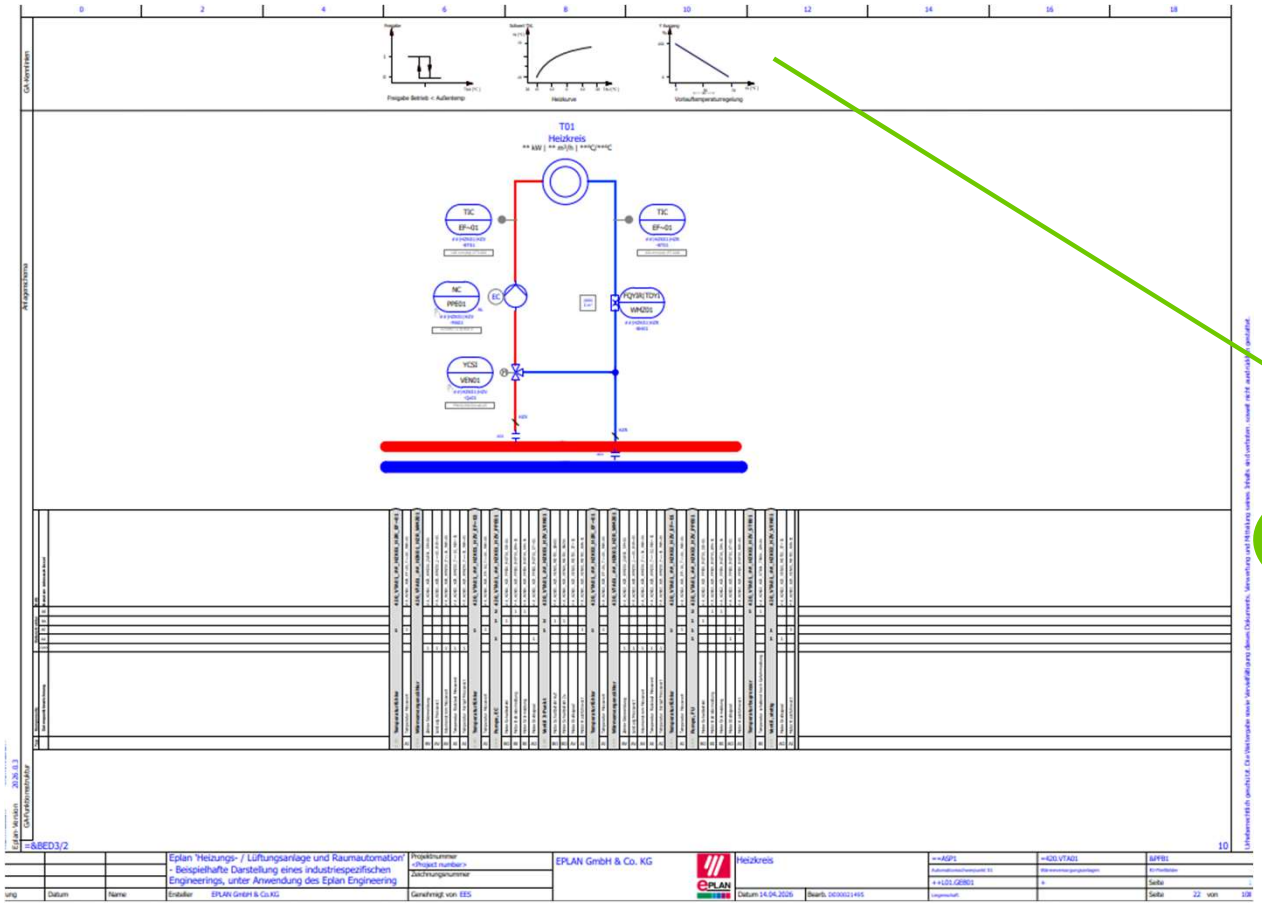
AKS



		420_VTA01_##_HZK02_HZV_PPE01	##_HZK02_HZV_PPE01_MOT01_SB~01	##_HZK02_HZV_PPE01_MOT01_BM~01	##_HZK02_HZV_PPE01_MOT01_SM~01	##_HZK02_HZV_PPE01_MOT01_ST~01	##_HZK02_HZV_PPE01_MOT01_RW~01	420_VTA01_##_HZK02_HZV_STB01	##_HZK02_HZV_STB01_TSH01_GM~01	420_VTA01_##_HZK02_HZV_VEN01	##_HZK02_HZV_VEN01_MOT01_ST~01	##_HZK02_HZV_VEN01_MOT01_RW~01
		2		1	1			1	1			
		1	1									
		1					1			1		1
		1				1				1	1	
	Pumpe, FU							Temperaturbegrenzer		Ventil, stetig		
	BO	Motor Schaltbefehl						BI	Temperatur schaltend hoch Gefahrmeldung			
	BI	Motor Betriebsmeldung										
	BI	Motor Störmeldung										
	AO	Motor Stellsignal								AO	Motor Stellsignal	
	AI	Motor Rückführwert								AI	Motor Rückführwert	

Gebäudeautomation

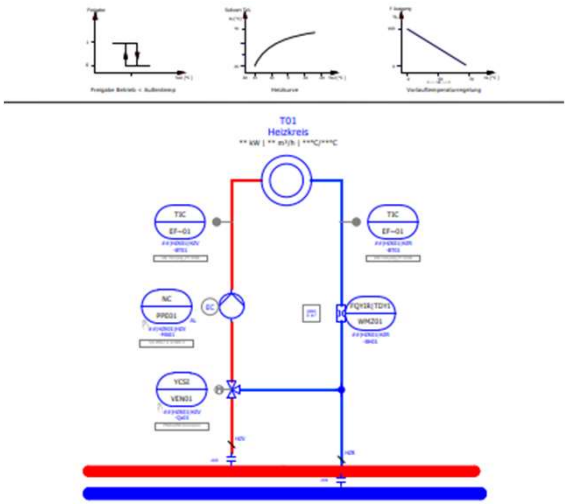
Datenübernahme aus der Vorplanung



Anlagenparameter

Gebäudeautomation

Datenübernahme aus der Vorplanung

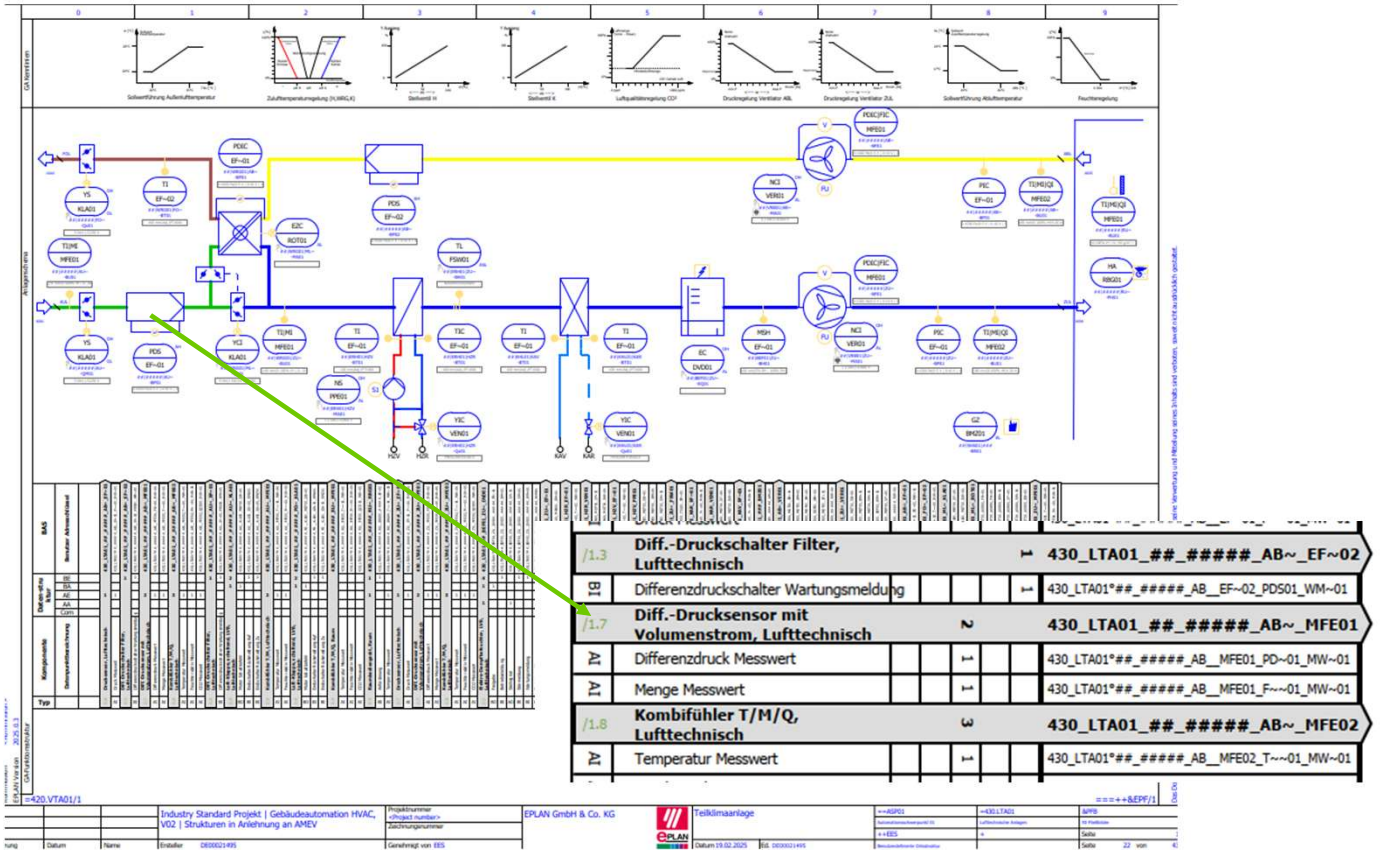


BACnet Properties

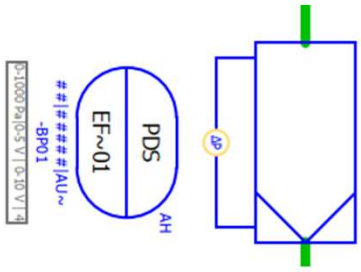
	P	Q	R	S	T	U
	BAC High Limit [45] (P)	BAC Low Limit [59]	BAC Max Pres Val	BAC Min Pres Va	BAC Log Interval	BAC Time Delay [
	40,00	-20	0	0	0	120

Gebäudeautomation

Datenübernahme aus der Vorplanung



/1.3	**Diff.-Druckschalter Filter, Lufttechnisch**					1	**430_LTA01_##_#####_AB~_EF~02**
BI	Differenzdruckschalter Wartungsmeldung					1	430_LTA01°##_#####_AB__EF~02_PDS01_WM~01
/1.7	**Diff.-Drucksensor mit Volumenstrom, Lufttechnisch**				2		**430_LTA01_##_#####_AB~_MFE01**
AI	Differenzdruck Messwert				1		430_LTA01°##_#####_AB__MFE01_PD~01_MW~01
AI	Menge Messwert				1		430_LTA01°##_#####_AB__MFE01_F~~01_MW~01
/1.8	**Kombifühler T/M/Q, Lufttechnisch**				3		**430_LTA01_##_#####_AB~_MFE02**
AI	Temperatur Messwert				1		430_LTA01°##_#####_AB__MFE02_T~~01_MW~01



WAGO Solution Builder

Die Engineering-Software für Automation mit WAGO,

Mehrwert im gesamten Projektlebenszyklus,
mit speziellen Ausprägungen für die Gebäudeautomation.

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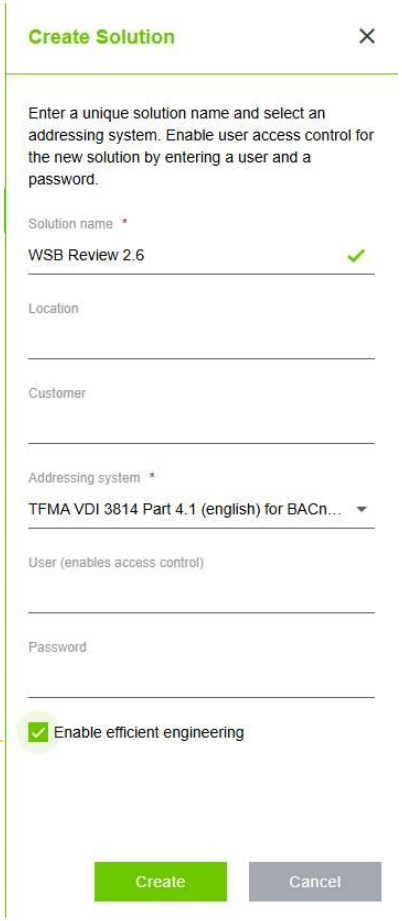
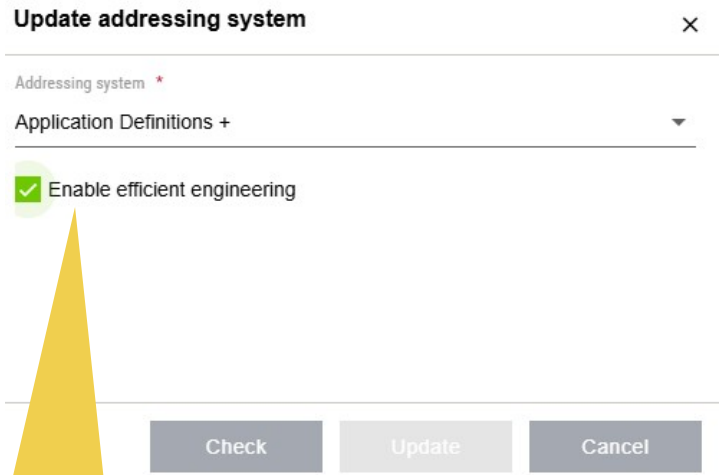
Efficient Engineering: prepare solution

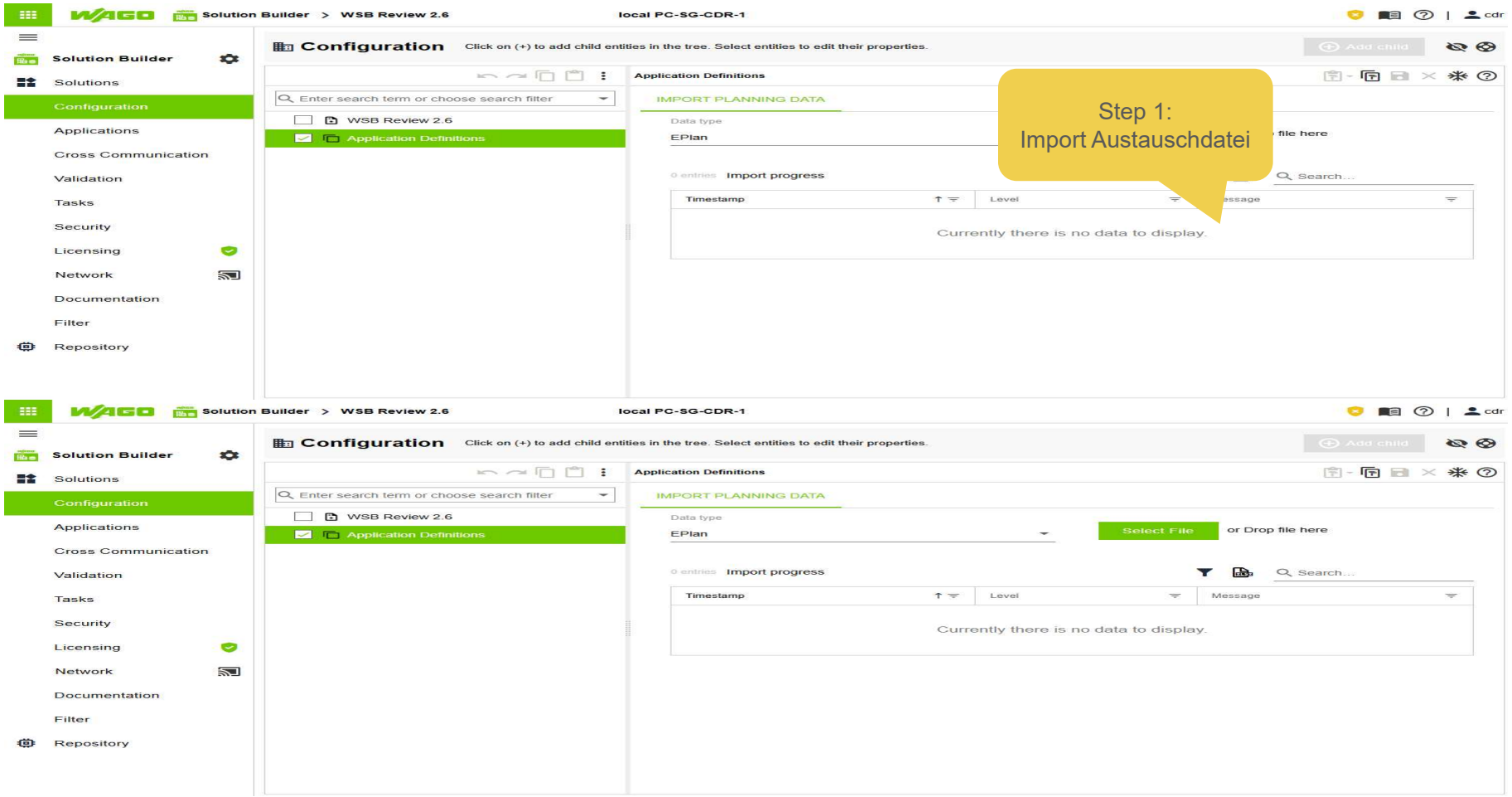


Create a new solution with enabled efficient engineering, or…

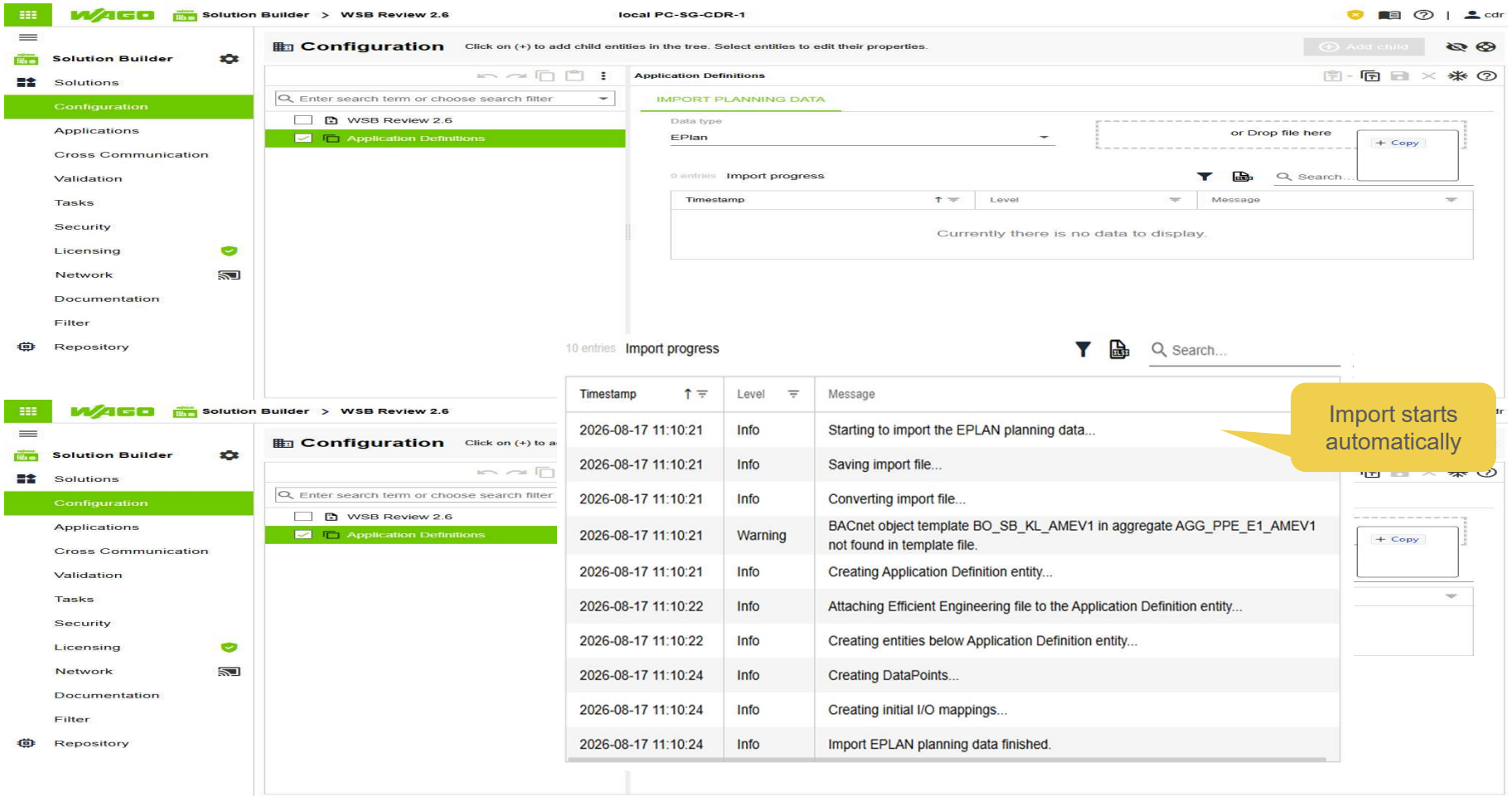


… update the addressing system of an existing solution with enabled efficient engineering.

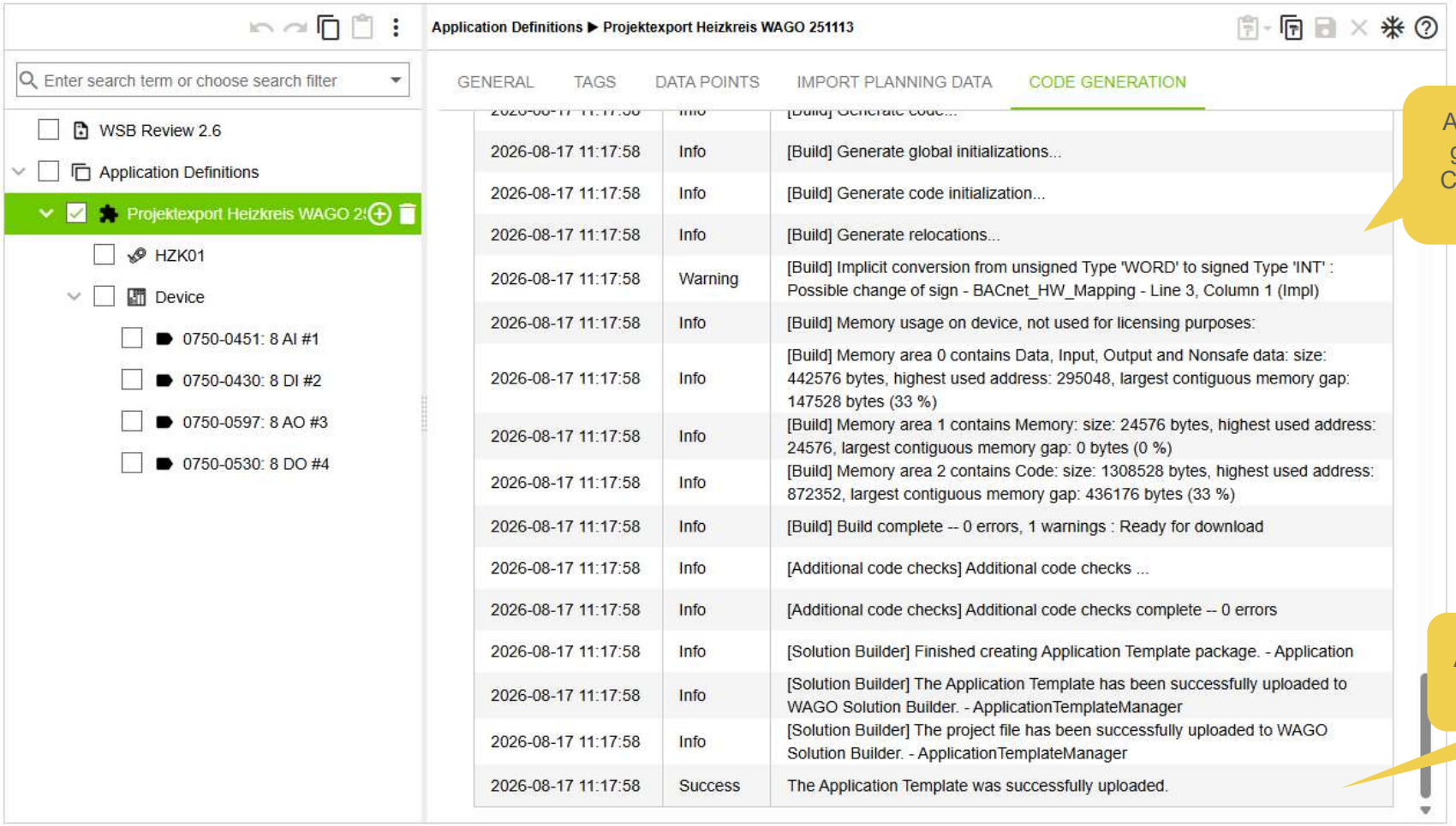
Efficient Engineering: import



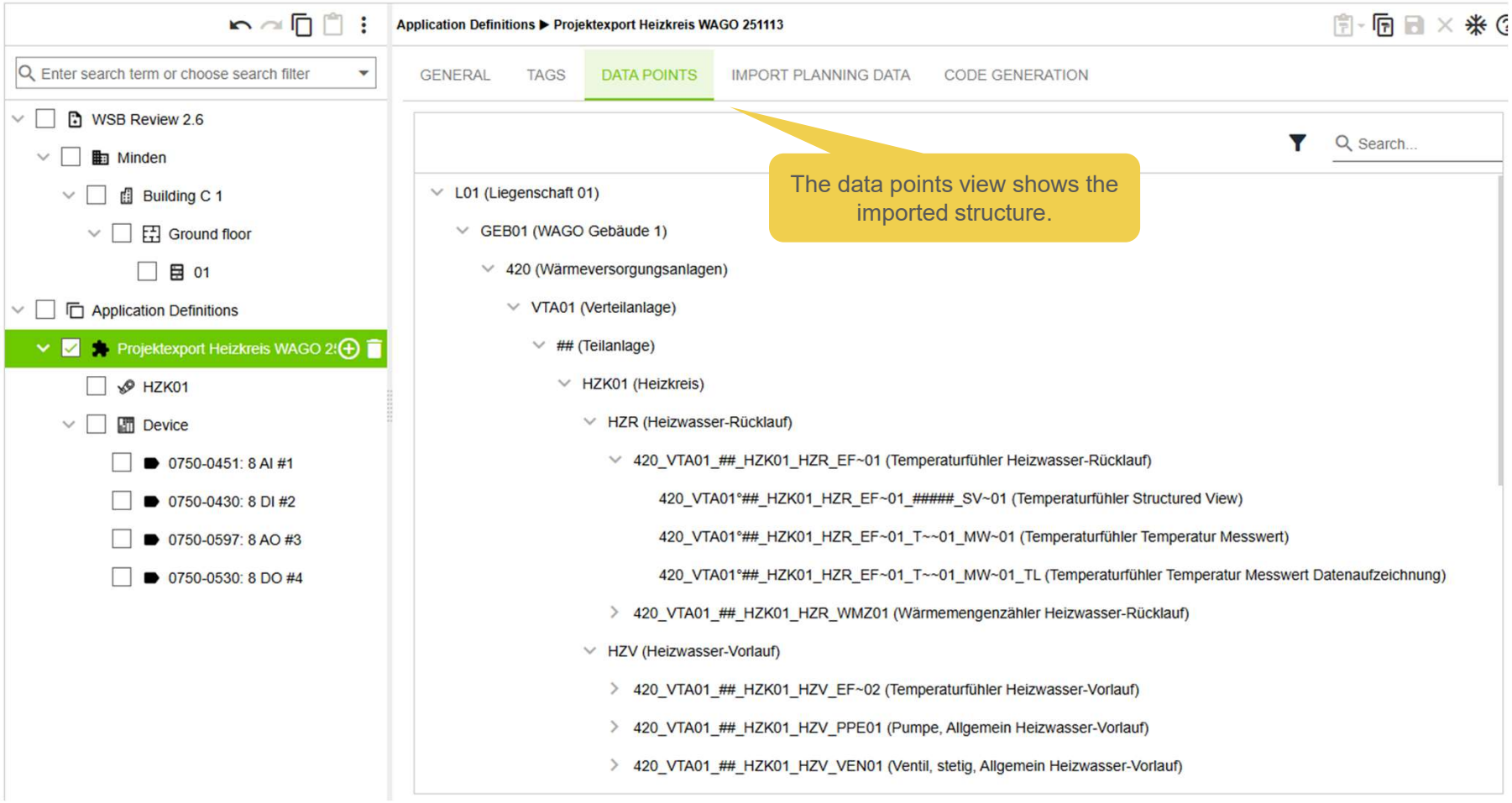
Efficient Engineering: import



Efficient Engineering: generate

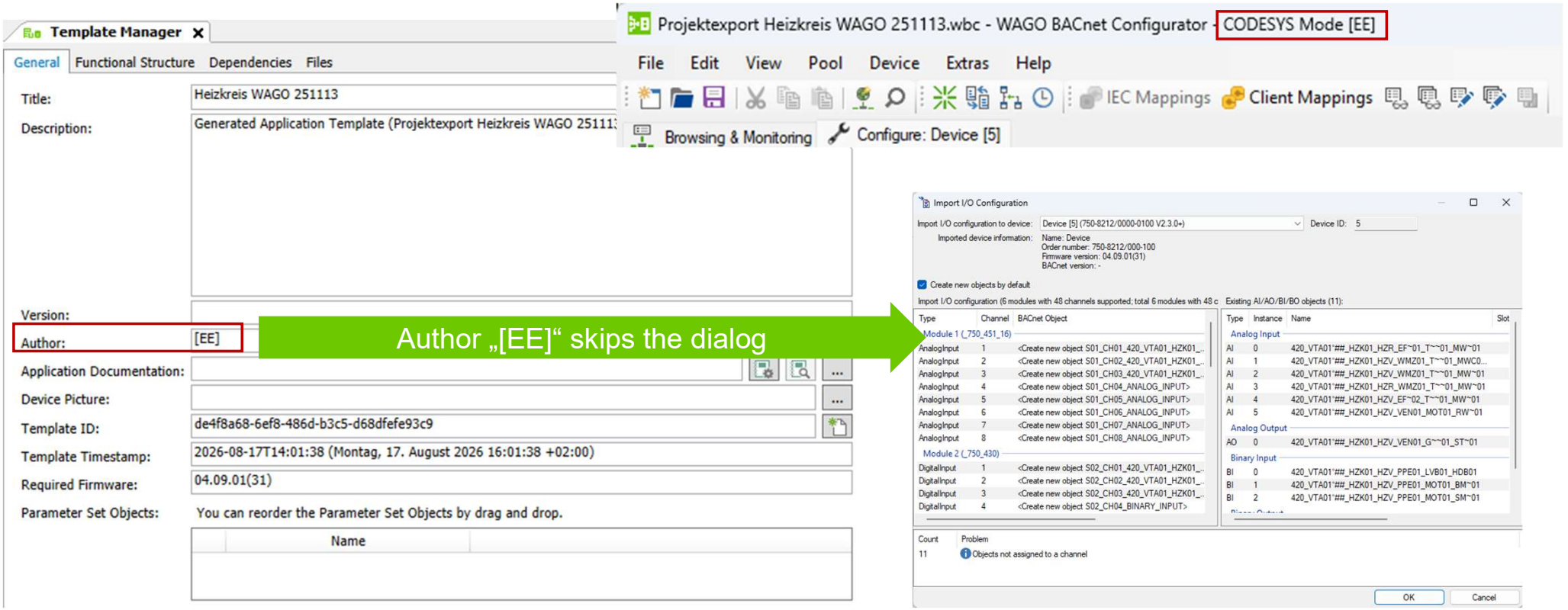


Efficient Engineering: data points

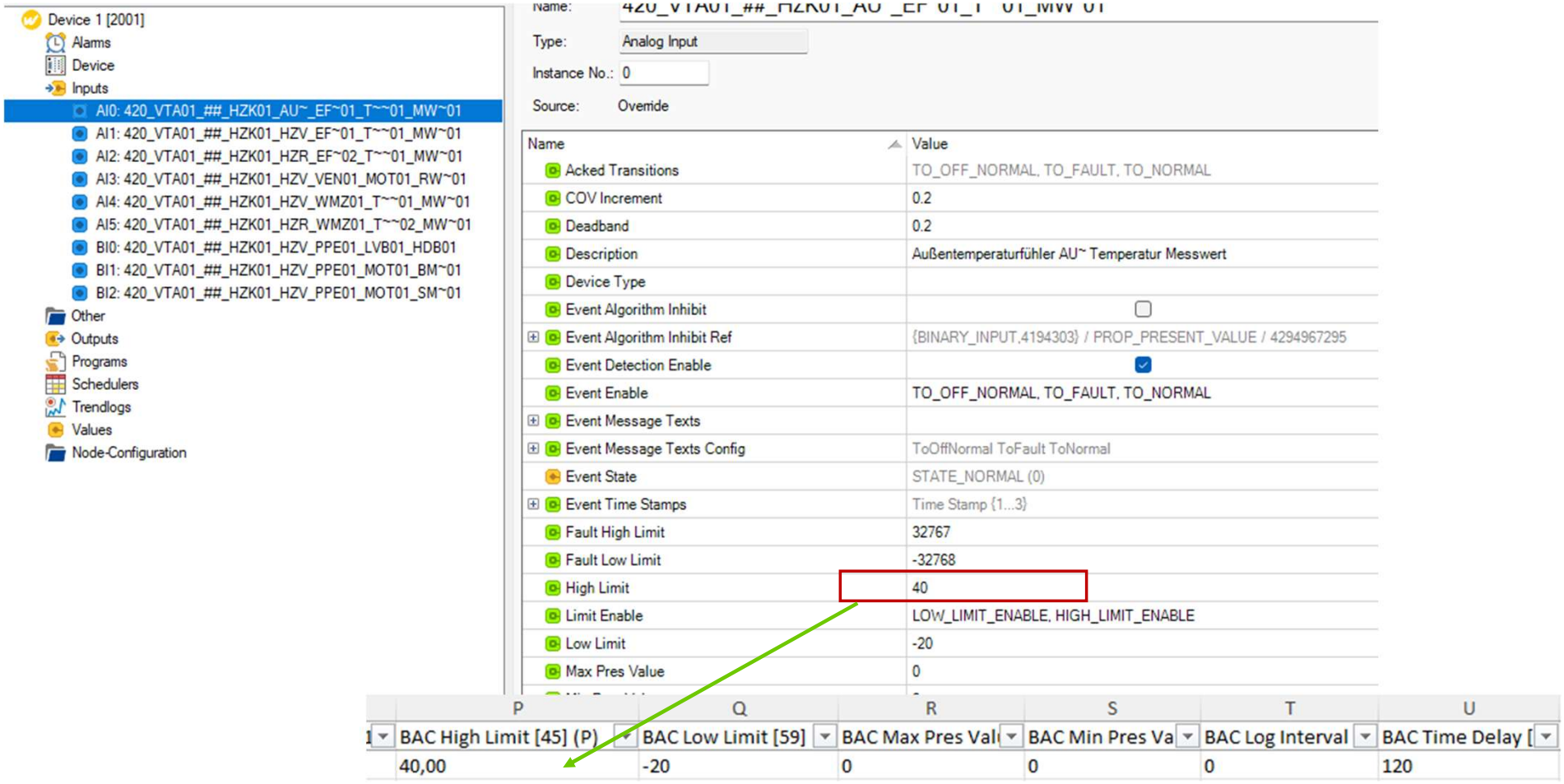


Open WBC without IO configuration

- Open WBC from CODESYS without opening the IO configuration dialog
- The import wizard generates the “[EE]” author automatically



Open WBC


Device 1 [2001]
Alarms
Device
Inputs
AI0: 420_VTA01_##_HZK01_AU~_EF~01_T~~01_MW~01
AI1: 420_VTA01_##_HZK01_HZV_EF~01_T~~01_MW~01
AI2: 420_VTA01_##_HZK01_HZR_EF~02_T~~01_MW~01
AI3: 420_VTA01_##_HZK01_HZV_VEN01_MOT01_RW~01
AI4: 420_VTA01_##_HZK01_HZV_WMZ01_T~~01_MW~01
AI5: 420_VTA01_##_HZK01_HZR_WMZ01_T~~02_MW~01
BI0: 420_VTA01_##_HZK01_HZV_PPE01_LVB01_HDB01
BI1: 420_VTA01_##_HZK01_HZV_PPE01_MOT01_BM~01
BI2: 420_VTA01_##_HZK01_HZV_PPE01_MOT01_SM~01
Other
Outputs
Programs
Schedulers
Trendlogs
Values
Node-Configuration
Name:
Type: Analog Input
Instance No.: 0
Source: Override
Name
Value
Acked Transitions
TO_OFF_NORMAL, TO_FAULT, TO_NORMAL
COV Increment
0.2
Deadband
0.2
Description
Außentemperaturfühler AU~ Temperatur Messwert
Device Type
Event Algorithm Inhibit
Event Algorithm Inhibit Ref
{BINARY_INPUT,4194303} / PROP_PRESENT_VALUE / 4294967295
Event Detection Enable
Event Enable
TO_OFF_NORMAL, TO_FAULT, TO_NORMAL
Event Message Texts
Event Message Texts Config
ToOffNormal ToFault ToNormal
Event State
STATE_NORMAL (0)
Event Time Stamps
Time Stamp {1...3}
Fault High Limit
32767
Fault Low Limit
-32768
High Limit
40
Limit Enable
LOW_LIMIT_ENABLE, HIGH_LIMIT_ENABLE
Low Limit
-20
Max Pres Value
0
P
Q
R
S
T
U
BAC High Limit [45] (P)
BAC Low Limit [59]
BAC Max Pres Val
BAC Min Pres Va
BAC Log Interval
BAC Time Delay [
40,00
-20
0
0
0
120

WAGO