

Styrssystem

Unity Pro

Kom-igång med import CANopen EDS.

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Schneider Electric Sverige AB

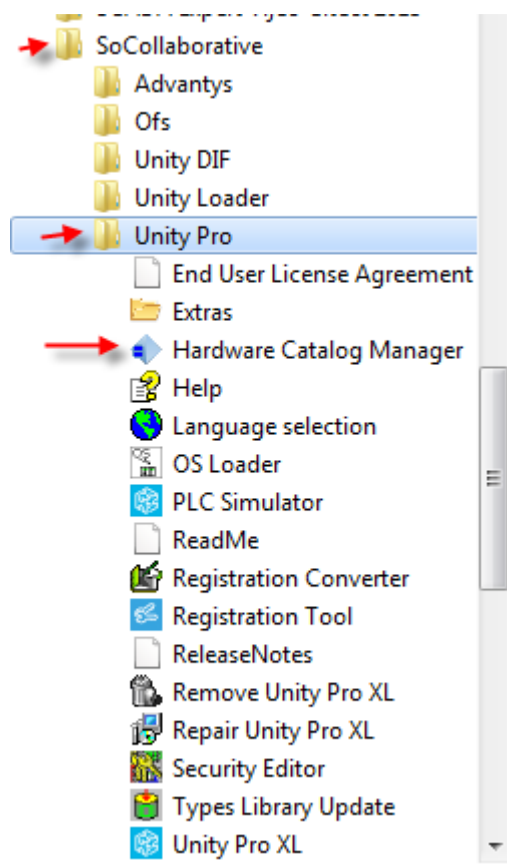
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1 INLEDNING

För att addera CANopen EDS filer för externa leverantörer används hardware Catalog manager. Unity Pro får inte vara igång när programmet körs.

2 STARTA PROGRAMMET



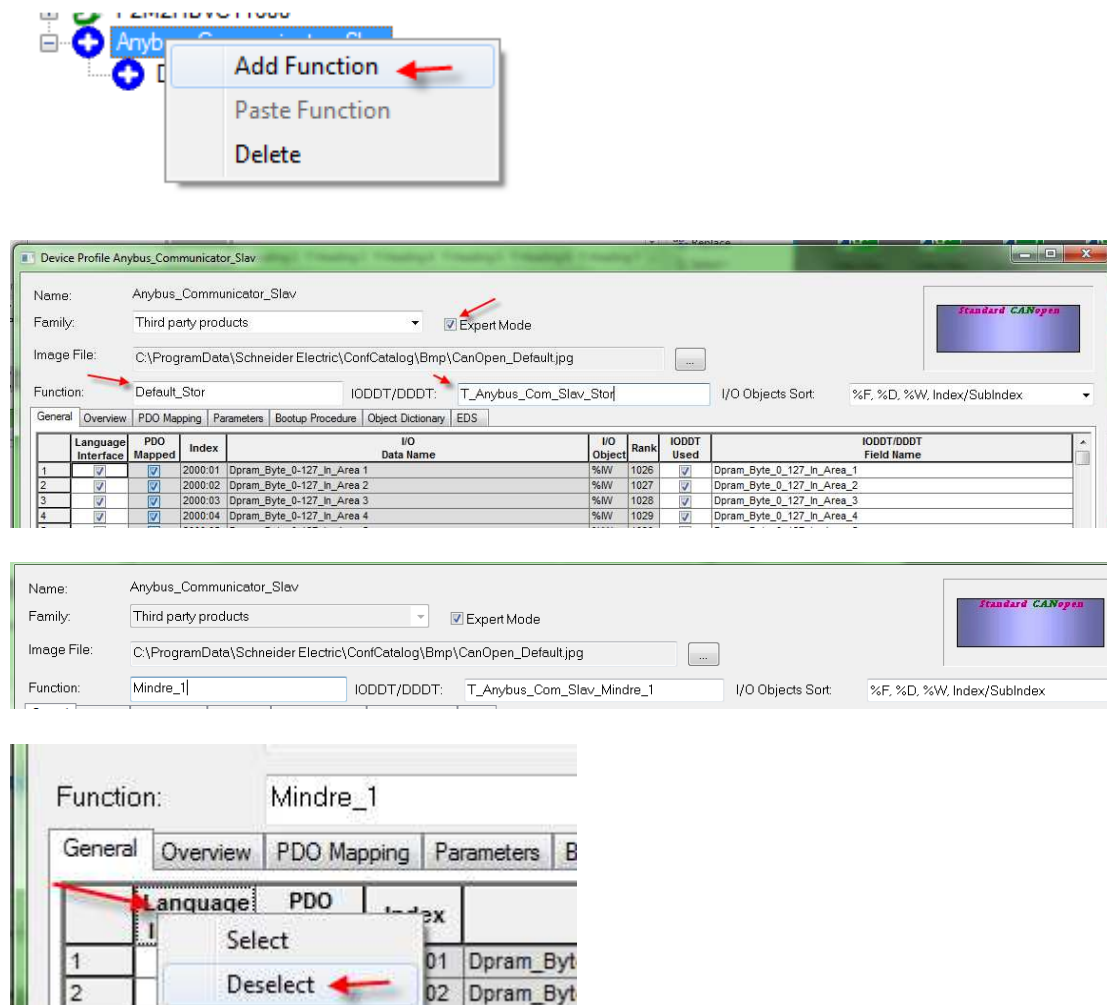
3 LÄGG TILL EDS



Markera önskad EDS fil och lägg till den. Bygg katalogen när det är klart.

4 EDITER EDS

Nedan steg kan göras direkt på en EDS fil eller som här nedan göra en ny variant av profilen. Genom att anpassa profilen så minskas mängden %IW och %OW som förbrukas. I M340 kommer de också att speglas i %MW.



Markera önskade Data. Nedan ska bara betraktas som exempel. Det är i regel ingen mening att välja något mindre än 8 byte/4 ord in och ut. En PDO i CANopen har alltid 8 byte/4 ord

General	Overview	PDO Mapping	Parameters	Bootup Procedure	Object Dictionary	EDS		
	Language Interface	PDO Mapped	Index	I/O Data Name	I/O Object	Rank	IODT Used	IODT/DDDT Field Name
1	☒	☐	2000:01	Dpram_Byte_0-127_In_Area 1	%IW	0	☒	Dpram_Byte_0_127_In_Area_1
2	☒	☐	2000:02	Dpram_Byte_0-127_In_Area 2	%IW	1	☒	Dpram_Byte_0_127_In_Area_2
3	☒	☐	2000:03	Dpram_Byte_0-127_In_Area 3	%IW	2	☒	Dpram_Byte_0_127_In_Area_3
4	☒	☐	2000:04	Dpram_Byte_0-127_In_Area 4	%IW	3	☒	Dpram_Byte_0_127_In_Area_4
5	☒	☐	2000:05	Dpram_Byte_0-127_In_Area 5	%IW	4	☒	Dpram_Byte_0_127_In_Area_5
6	☒	☐	2000:06	Dpram_Byte_0-127_In_Area 6	%IW	5	☒	Dpram_Byte_0_127_In_Area_6
7	☒	☐	2000:07	Dpram_Byte_0-127_In_Area 7	%IW	6	☒	Dpram_Byte_0_127_In_Area_7
8	☒	☐	2000:08	Dpram_Byte_0-127_In_Area 8	%IW	7	☒	Dpram_Byte_0_127_In_Area_8
9	☐	☐	2000:09	Dpram_Byte_0-127_In_Area 9			☐	Dpram_Byte_0_127_In_Area_9
2048	☐	☐	200F:80	Dpram_Byte_1920-2047_In_Area 128			☐	Dpram_Byte_1920_2047_In_Area_128
2049	☒	☐	2020:01	Dpram_Word_0-63_In_Area 1	%IW	8	☒	Dpram_Word_0_63_In_Area_1
2050	☒	☐	2020:02	Dpram_Word_0-63_In_Area 2	%IW	9	☒	Dpram_Word_0_63_In_Area_2
2051	☒	☐	2020:03	Dpram_Word_0-63_In_Area 3	%IW	10	☒	Dpram_Word_0_63_In_Area_3
2052	☒	☐	2020:04	Dpram_Word_0-63_In_Area 4	%IW	11	☒	Dpram_Word_0_63_In_Area_4
2053	☐	☐	2020:05	Dpram_Word_0-63_In_Area 5			☐	Dpram_Word_0_63_In_Area_5

3585	☒	☒	2100.01	Dpram_Byte_0-127_Out_Area 1	%QW	0	☒	Dpram_Byte_0_127_Out_Area_1
3586	☒	☒	2100.02	Dpram_Byte_0-127_Out_Area 2	%QW	1	☒	Dpram_Byte_0_127_Out_Area_2
3587	☒	☒	2100.03	Dpram_Byte_0-127_Out_Area 3	%QW	2	☒	Dpram_Byte_0_127_Out_Area_3
3588	☒	☒	2100.04	Dpram_Byte_0-127_Out_Area 4	%QW	3	☒	Dpram_Byte_0_127_Out_Area_4
3589	☒	☒	2100.05	Dpram_Byte_0-127_Out_Area 5	%QW	4	☒	Dpram_Byte_0_127_Out_Area_5
3590	☒	☒	2100.06	Dpram_Byte_0-127_Out_Area 6	%QW	5	☒	Dpram_Byte_0_127_Out_Area_6
3591	☒	☒	2100.07	Dpram_Byte_0-127_Out_Area 7	%QW	6	☒	Dpram_Byte_0_127_Out_Area_7
3592	☒	☒	2100.08	Dpram_Byte_0-127_Out_Area 8	%QW	7	☒	Dpram_Byte_0_127_Out_Area_8
3593	☒	☒	2100.09	Dpram_Byte_0-127_Out_Area 9			☒	Dpram_Byte_0_127_Out_Area_9

5633	☒	☒	2120.01	Dpram_Word_0-63_Out_Area 1	%QW	8	☒	Dpram_Word_0_63_Out_Area_1
5634	☒	☒	2120.02	Dpram_Word_0-63_Out_Area 2	%QW	9	☒	Dpram_Word_0_63_Out_Area_2
5635	☒	☒	2120.03	Dpram_Word_0-63_Out_Area 3	%QW	10	☒	Dpram_Word_0_63_Out_Area_3
5636	☒	☒	2120.04	Dpram_Word_0-63_Out_Area 4	%QW	11	☒	Dpram_Word_0_63_Out_Area_4
5637	☒	☒	2120.05	Dpram_Word_0-63_Out_Area 5			☒	Dpram_Word_0_63_Out_Area_5

Och eventuell annan data utöver ren I/O data.

7169	☒	☒	2200.00	Bus_state_Indicator	%NW	12	☒	Bus_state_Indicator
7170	☒	☒	2205.00	Module_state_Indicator	%NW	13	☒	Module_state_Indicator
7171	☒	☒	2210.00	Module_Serial_Number			☒	Module_Serial_Number
7172	☒	☒	2211.00	Vendor_Id			☒	Vendor_Id
7173	☒	☒	2212.00	Module_Status			☒	Module_Status
7174	☒	☒	2220.00	Interrupt_Count			☒	Interrupt_Count
7175	☒	☒	2221.00	Interrupt_Cause			☒	Interrupt_Cause
7176	☒	☒	2222.00	Interrupt_Notification			☒	Interrupt_Notification
7177	☒	☒	2230.00	Watchdog_Counter_In			☒	Watchdog_Counter_In
7178	☒	☒	2231.00	Watchdog_Counter_Out			☒	Watchdog_Counter_Out
7179	☒	☒	2240.00	IO_In_Length			☒	IO_In_Length
7180	☒	☒	2241.00	Dpram_In_Length			☒	Dpram_In_Length
7181	☒	☒	2242.00	Total_In_Length			☒	Total_In_Length
7182	☒	☒	2243.00	IO_Out_Length			☒	IO_Out_Length
7183	☒	☒	2244.00	Dpram_Out_Length			☒	Dpram_Out_Length
7184	☒	☒	2245.00	Total_Out_Length			☒	Total_Out_Length
7185	☒	☒	2260.00	Top_Left_Led_Status	%NW	14	☒	Top_Left_Led_Status
7186	☒	☒	2261.00	Top_Right_Led_Status	%NW	15	☒	Top_Right_Led_Status
7187	☒	☒	2262.00	Bottom_Left_Led_Status	%NW	16	☒	Bottom_Left_Led_Status
7188	☒	☒	2263.00	Bottom_Right_Led_Status	%NW	17	☒	Bottom_Right_Led_Status
7189	☒	☒	2800.00	Bus_off_control	%QW	12	☒	Bus_off_control

5 PDO

Förbered hur data ska läggas ut. Detta kan även göras och/eller redigeras i M340/M580 CANopen konfiguration.

General Overview PDO Mapping Parameters Bootup Procedure Object Dictionary EDS

Transmit (%I)

PDO Attributes Permissions

PDO	Tran...	Inhibi...	Even...	Topo.Addr. (IODDT)
☒ PDO 1	254	0	0	
☐ Dpram_Byte_0-127_In_Area 1				%IW<@mod>0.0
☐ Dpram_Byte_0-127_In_Area 2				%IW<@mod>0.1
☐ Dpram_Byte_0-127_In_Area 3				%IW<@mod>0.2
☐ Dpram_Byte_0-127_In_Area 4				%IW<@mod>0.3
☒ PDO 2	254	0	0	
☐ Dpram_Word_0-63_In_Area 1				%IW<@mod>0.8
☐ Dpram_Word_0-63_In_Area 2				%IW<@mod>0.9
☒ PDO 3	254	0	0	
☒ PDO 4	254	0	0	

Receive (%Q)

PDO	Tran...	Inhibi...	Even...	Topo.Addr. (IODDT)
☒ PDO 1	254			
☐ Dpram_Byte_0-127_Out_Area 1				%QW<@mod>0.0
☐ Dpram_Byte_0-127_Out_Area 2				%QW<@mod>0.1
☐ Dpram_Byte_0-127_Out_Area 3				%QW<@mod>0.2
☐ Dpram_Byte_0-127_Out_Area 4				%QW<@mod>0.3
☒ PDO 2	254			
☒ PDO 3	254			
☒ PDO 4	254			
☐ PDO 5	254			

6 BOOTUP

Nedan test kan eventuellt avmarkeras. Detta kan även editeras i M340/M580 CANopen konfigurerings.

General | Overview | PDO Mapping | Parameters | **Bootup Procedure** | Object Dictionary | EDS

Power ON

Restore

- ☐ No Restore
- ☐ Restore communication parameters
- ☐ Restore application parameters
- ☒ Restore all parameters

Reset

- ☐ Reset communication parameters
- ☒ Reset node

Check node

- ☒ Device type
- ☒ Device identity

Download Configuration

- ☐ Force communication parameters
- ☐ Force application parameters

Start

- ☒ Start node

PDO transfer

Restore option is used to define the allowed restore procedure for a
Communication parameters: 0x1000 -> 0x1FFF
Application parameters: 0x8000 -> 0x9FFF

Reset option is used to configure the type of reset sent to the dev
Communication parameters: 0x1000 -> 0x1FFF
Application parameters: 0x8000 -> 0x9FFF

Check node option is used to bypass the device type (0x1000) or t

Download configuration option is used to force the parameters to be

Start option is used to configure whether the device shall be starte

7 OBJECT DICTIONARY

Kolla över Object Dictionary och korrigera eventuellt

General | Overview | PDO Mapping | Parameters | Bootup Procedure | **Object Dictionary** | EDS

Area: Status:

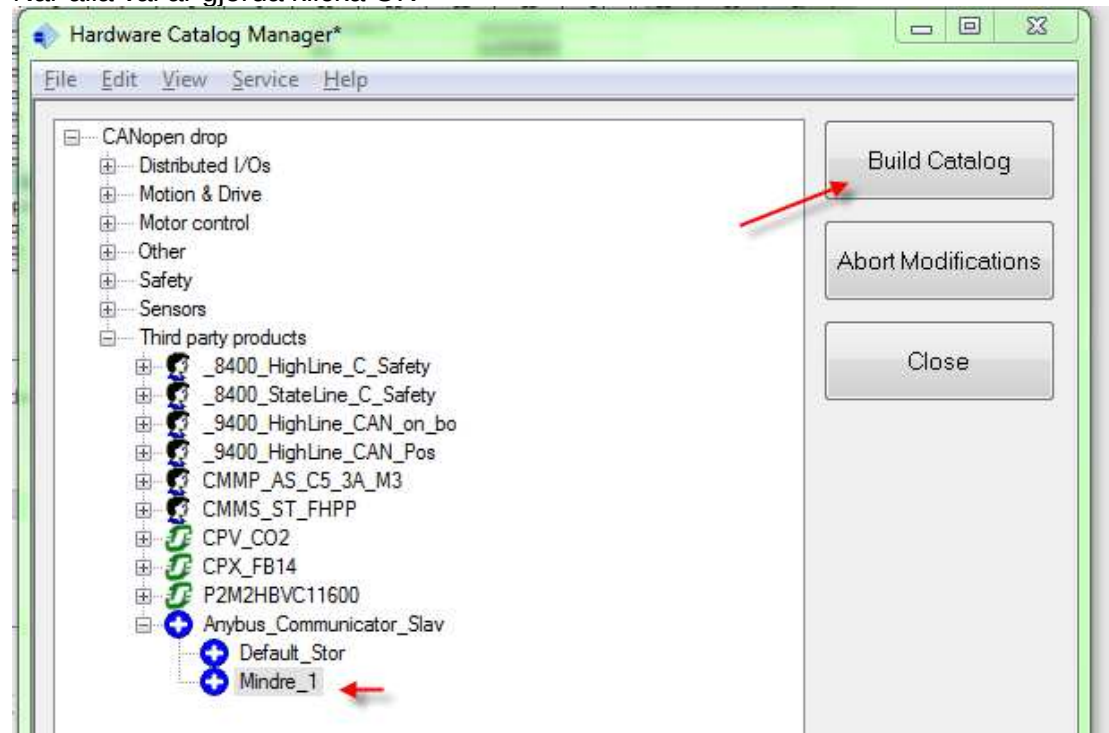
Index:Subindex	Name	Value	Default Value	Access	Type	Min
☐ 0x1018:00	Number of entries	0x4	0x4	RO	UI8	0x4
☐ 0x1018:01	Vendor ID	0x1B	0x1B	RO	UI32	0x1
☐ 0x1018:02	Product Code	0x14	0x14	RO	UI32	0x1
☐ 0x1018:03	Revision	0x30001	0x30001	RO	UI32	0x1
☐ 0x1018:04	Serial Number	0x0	0x0	RO	UI32	
☒ 0x1400	Receive PDO1 Parameter					
☐ 0x1400:00	Number of entries	0x2	0x2	RO	UI8	0x2
☒ 0x1400:01	COBID	\$NodeID+0x200	\$NodeID+0x200	RW	UI32	
☒ 0x1400:02	Transmission type	0xFE	0xFE	RW	UI8	
☒ 0x1401	Receive PDO2 Parameter					
☐ 0x1401:00	Number of entries	0x2	0x2	RO	UI8	0x2
☒ 0x1401:01	COBID	\$NodeID+0x300	\$NodeID+0x300	RW	UI32	
☒ 0x1401:02	Transmission type	0xFE	0xFE	RW	UI8	
☒ 0x1402	Receive PDO3 Parameter					
☐ 0x1402:00	Number of entries	0x2	0x2	RO	UI8	0x2
☒ 0x1402:01	COBID	\$NodeID+0x400	\$NodeID+0x400	RW	UI32	
☒ 0x1402:02	Transmission type	0xFE	0xFE	RW	UI8	
☒ 0x1403	Receive PDO4 Parameter					
☐ 0x1403:00	Number of entries	0x2	0x2	RO	UI8	0x2
☒ 0x1403:01	COBID	\$NodeID+0x500	\$NodeID+0x500	RW	UI32	
☒ 0x1403:02	Transmission type	0xFE	0xFE	RW	UI8	
☒ 0x1404	Receive PDO5 Parameter					
☐ 0x1404:00	Number of entries	0x2	0x2	RO	UI8	0x2
☐ 0x1404:01	COBID	\$NodeID+0x80000240	\$NodeID+0x80000240	RW	UI32	
☐ 0x1404:02	Transmission type	0xFE	0xFE	RW	UI8	

☐ 0x144f:02	Transmission type	0xFE	0xFE
☒ 0x1600	Receive Pdo 1 Mapping		
☒ 0x1600:00	Number of mapped objects	0x4	0x8
☒ 0x1600:01	1.mapped object	0x21000108	0x2100
☒ 0x1600:02	2.mapped object	0x21000208	0x2100
☒ 0x1600:03	3.mapped object	0x21000308	0x2100
☒ 0x1600:04	4.mapped object	0x21000408	0x2100
☒ 0x1600:05	5.mapped object	0x0	0x2100
☒ 0x1600:06	6.mapped object	0x0	0x2100
☒ 0x1600:07	7.mapped object	0x0	0x2100
☒ 0x1600:08	8.mapped object	0x0	0x2100
☒ 0x1601	Receive Pdo 2 Mapping		
☒ 0x1601:00	Number of mapped objects	0x8	0x8
☒ 0x1601:01	1.mapped object	0x21000908	0x2100
☒ 0x1601:02	2.mapped object	0x21000A08	0x2100
☒ 0x1601:03	3.mapped object	0x21000B08	0x2100
☒ 0x1601:04	4.mapped object	0x21000C08	0x2100
☒ 0x1601:05	5.mapped object	0x21000D08	0x2100
☒ 0x1601:06	6.mapped object	0x21000E08	0x2100

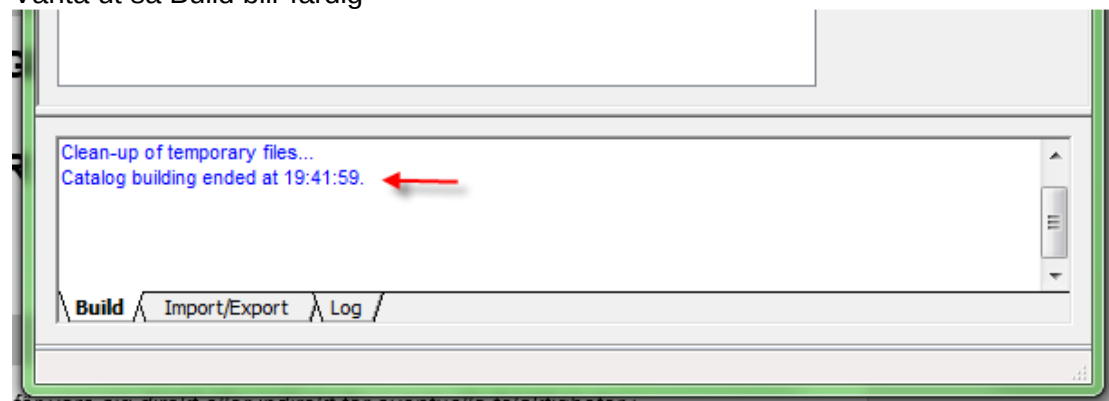
☐ 0x1800:00	0.mapped object	0x21040000	0x21040000	RO
☒ 0x1800	Transmit PDO1 Parameter			
☐ 0x1800:00	Number of entries	0x5	0x5	RO
☒ 0x1800:01	COBID	\$NodeID+0x180	\$NodeID+0x180	RW
☒ 0x1800:02	Transmission type	0xFE	0xFE	RW
☒ 0x1800:03	Inhibit Time	0x0	0x0	RW
☒ 0x1800:05	Event Timer	0x0	0x0	RW
☒ 0x1801	Transmit PDO2 Parameter			
☐ 0x1801:00	Number of entries	0x5	0x5	RO
☒ 0x1801:01	COBID	\$NodeID+0x280	\$NodeID+0x280	RW
☒ 0x1801:02	Transmission type	0xFE	0xFE	RW
☒ 0x1801:03	Inhibit Time	0x0	0x0	RW
☒ 0x1801:05	Event Timer	0x0	0x0	RW
☒ 0x1802	Transmit PDO3 Parameter			
☐ 0x1802:00	Number of entries	0x5	0x5	RO
☒ 0x1802:01	COBID	\$NodeID+0x380	\$NodeID+0x380	RW
☒ 0x1802:02	Transmission type	0xFE	0xFE	RW
☒ 0x1802:03	Inhibit Time	0x0	0x0	RW
☒ 0x1802:05	Event Timer	0x0	0x0	RW
☒ 0x1803	Transmit PDO4 Parameter			
☐ 0x1803:00	Number of entries	0x5	0x5	RO
☒ 0x1803:01	COBID	\$NodeID+0x480	\$NodeID+0x480	RW
☒ 0x1803:02	Transmission type	0xFE	0xFE	RW
☒ 0x1803:03	Inhibit Time	0x0	0x0	RW
☒ 0x1803:05	Event Timer	0x0	0x0	RW
☒ 0x1804	Transmit PDO5 Parameter			

☐ 0x1a00:00	0.mapped object	0x20000000	0x20000000	
☒ 0x1a00	Transmit Pdo 1 Mapping			
☒ 0x1a00:00	Number of mapped objects	0x4	0x8	
☒ 0x1a00:01	1.mapped object	0x20000108	0x20000108	
☒ 0x1a00:02	2.mapped object	0x20000208	0x20000208	
☒ 0x1a00:03	3.mapped object	0x20000308	0x20000308	
☒ 0x1a00:04	4.mapped object	0x20000408	0x20000408	
☒ 0x1a00:05	5.mapped object	0x0	0x20000508	
☒ 0x1a00:06	6.mapped object	0x0	0x20000608	
☒ 0x1a00:07	7.mapped object	0x0	0x20000708	
☒ 0x1a00:08	8.mapped object	0x0	0x20000808	
☒ 0x1a01	Transmit Pdo 2 Mapping			
☒ 0x1a01:00	Number of mapped objects	0x2	0x8	
☒ 0x1a01:01	1.mapped object	0x20200110	0x20000908	
☒ 0x1a01:02	2.mapped object	0x20200210	0x20000A08	
☒ 0x1a01:03	3.mapped object	0x0	0x20000B08	
☒ 0x1a01:04	4.mapped object	0x0	0x20000C08	
☒ 0x1a01:05	5.mapped object	0x0	0x20000D08	
☒ 0x1a01:06	6.mapped object	0x0	0x20000E08	
☒ 0x1a01:07	7.mapped object	0x0	0x20000F08	
☒ 0x1a01:08	8.mapped object	0x0	0x20001008	
☒ 0x1a02	Transmit Pdo 3 Mapping			
☒ 0x1a02:00	Number of mapped objects	0x8	0x8	
☒ 0x1a02:01	1.mapped object	0x20001108	0x20001108	
☒ 0x1a02:02	2.mapped object	0x20001208	0x20001208	
☒ 0x1a02:03	3.mapped object	0x20001308	0x20001308	

När alla val är gjorda klicka OK



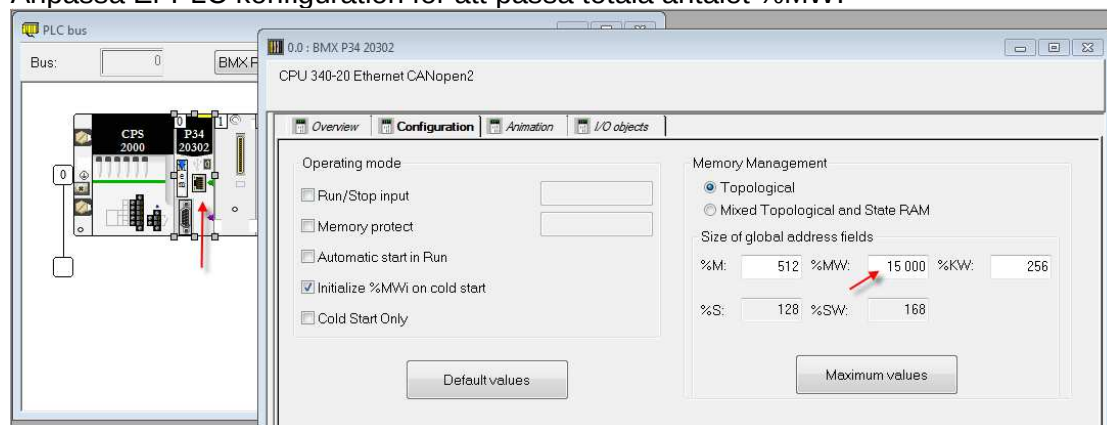
Vänta ut så Build blir färdig



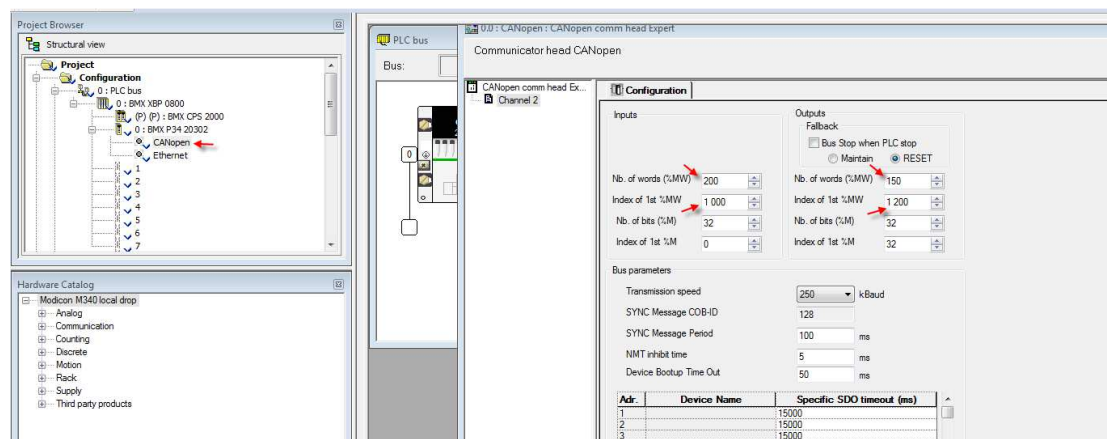
8 M340

8.1 TOTALA MÄNGDEN %MW

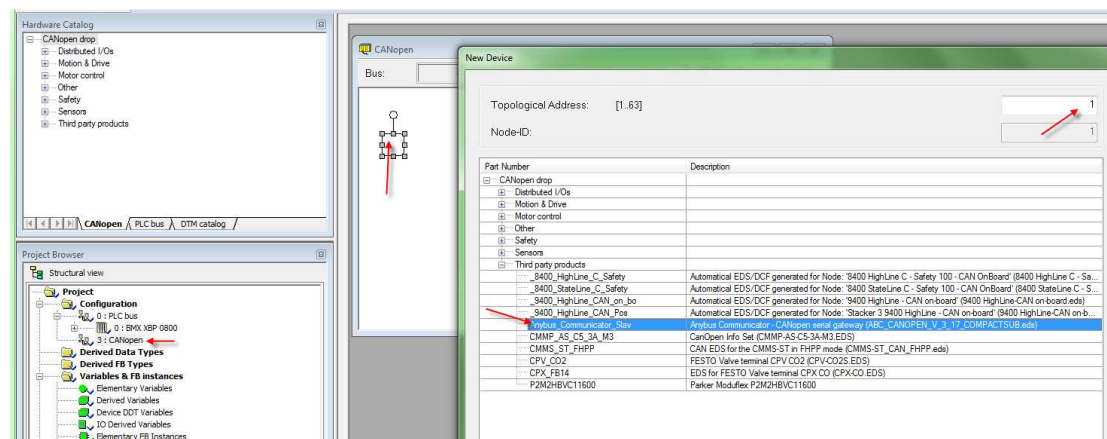
Anpassa Er PLC konfiguration för att passa totala antalet %MW.



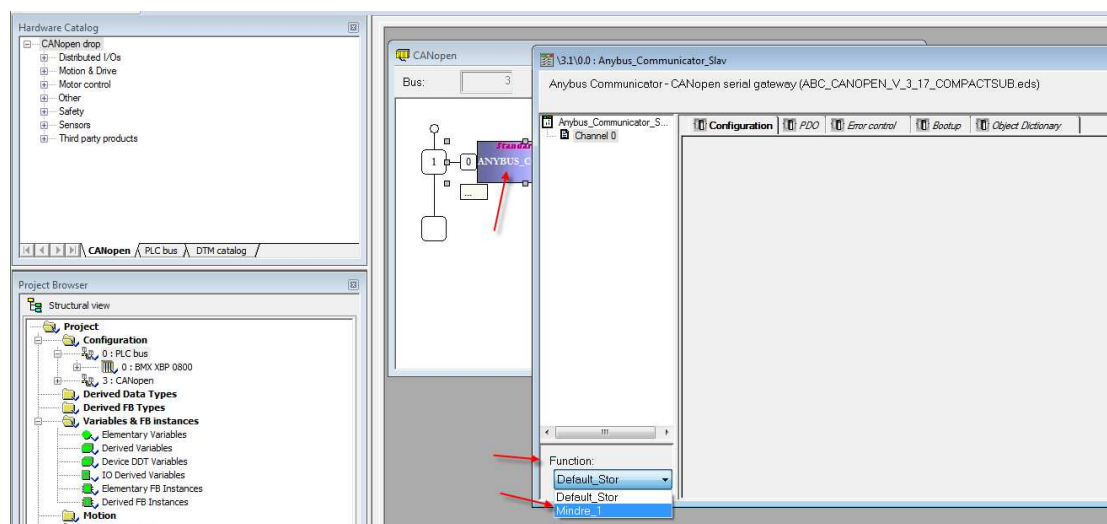
8.2 VAL %MW FÖR CANOPEN



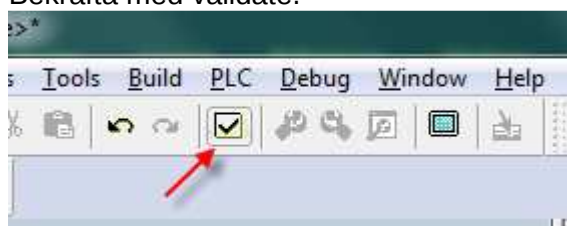
8.3 LÄGG TILL NODER



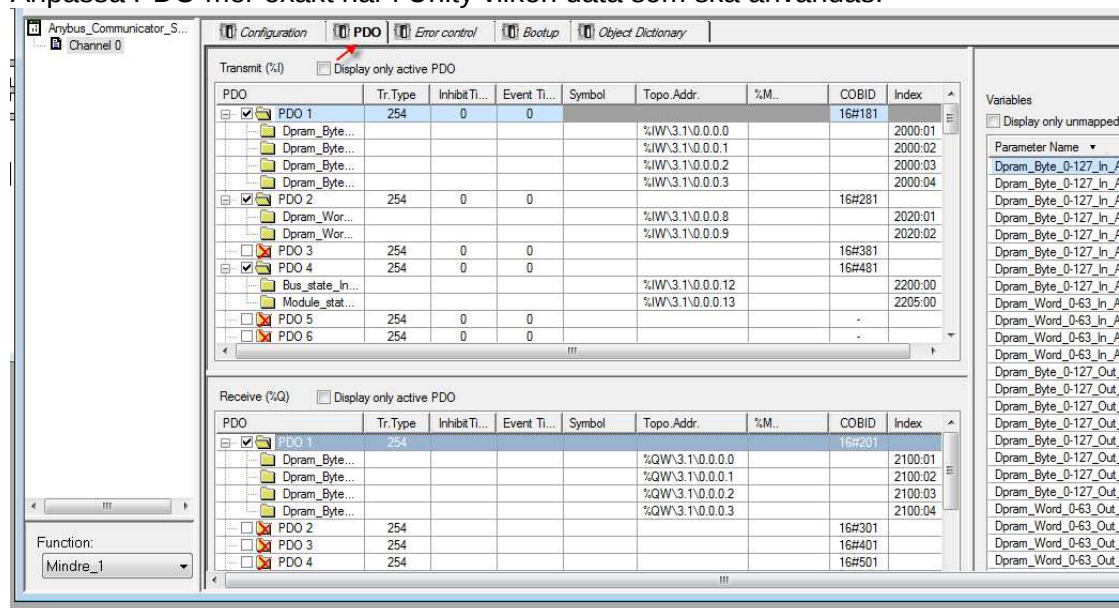
Välj önskad profil / Function på noden.



Bekräfta med validate.



Anpassa PDO mer exakt här i Unity vilken data som ska användas.



9 RADERA ALDRIG EN ANVÄND

Om en nod har lagts till i hardware catalog och används i ett Unity projekt så får den inte raderas. Unity kan få problem att öppna projektet igen.

10 ALLMÄNT

Schneider Electric tar inte ansvar för vare sig direkt eller indirekt för eventuella felaktigheter i supportdokumentet. Schneider Electric förbehåller sig rätten att utan förvarning utföra förändringar i supportdokumentet. Det är upp till användaren att utföra erforderliga prov i syfte att verifiera funktionen i aktuell applikation. I och med användande av supportdokumentet accepterar användaren ovanstående.