

State 07/2022



## **MDT solution proposal**

### How do I create a test project for MDT support?

A test project with the parameters you set and the database versions you use helps us to support you as quickly as possible. Together with a recording from the diagnosis of the ETS and the device information, we will try to reproduce the behaviour you described us.

#### **Required:**

ETS with your existing project.

ETS version used in the example is 5.7.6

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#### **Create MDT test project:**

Create a new project within the ETS.

ETS5™ ETS				
Overview	Bus	Cata	logs	کې Settings
Projects A	Archive ETS	Inside		
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Croate Now	Droject	ied 🔻	Status	
Create New	Project	)9:24	Editing	
Name		16:18	Editing	
MDT test		15:40	Editing	
Backbone		- 15:10	Editing	
IF		00.51	Edition	
Topology	1	79:21	Editing	
	.1	)9:35	Unknown	
		0:27	Editing	
Group Address S	Style	2:43	Editing	
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Two Level		3:40	Unknown	
O Three Level		1.25	Editing	
Create	Project Cance	1.55	eating	
cicate	B	6:31	Editing	



#### **Open two ETS projects in parallel:**

The ETS offers the possibility to open and edit several projects in parallel. Now open your existing project and the newly created project in parallel by switching back to the project overview via the green ETS symbol.

ETS5™ -	- MDT Test						
ETS	Bearbeiten	Arbeitsbereich	Inbetriebna	hme l	Diagnos	e Apps	Fenster
🐼 Proje	eksechließen	🌈 Rückgäi	ngig 🐴	Wieder	herstelle	en 📄	Reports
Gebäude	- \						
🕂 Gebäu	ıde hinzufüge	n 🔻 🗙 Lösch	nen 🛨 Pro	gramm	ieren   1	Ger	räteinfo 🔻
🔲 Gebäu	ıde		-	·   /	Adresse	Raum	Beschr
🖻 ┢ Dyr	namische Ord	ner					
💼 MD	T Test						
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Now open your existing project.

Ħ	ETS5™ - MDT	test							
	ETS Edit	Workplace	Commissioning	g Diagn	ostics Apps	Windo	w		
	Overview	Bu	s C	atalogs	Sett	ings			
	Projects	Archive	ETS Inside	е					
	+ 🗷 🕹	1							
	Name		Last Modified	<ul> <li>Stat</li> </ul>	us				
	Our home		01.07.2021 09:4	17 Editi	ing				
	MDT test	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	01.07.2021 09:4	46 Editi	ing				
	-		1000 Aug		-				
	1.00 Colleges	- All and a second	Automatica for						



#### Copy devices including group addresses:

Now switch to the topology view in both projects. Afterwards there are two options to copy the devices.



#### **Option 1, via drag and drop:**

Hold down the "ctrl" key and select the devices you want to copy from your existing project into the MDT test project. Now drag the selected devices (1) over the tab of the MDT test project (2) and drop onto the new line 1.1. (3).

III ETS5™ - Our home										
ETS Edit Workplace Commissioning Diagnostics Apps Window										
🔞 Close Project 🖍 Undo 🗛 Redo 🚔 Reports 📰 Workplace 🛪 🏢 Catalogs 📰 Diagnostics										
MDT test - Topology 📐 2 Our home - Topology 🗙	MDT test - Topplagy 2 Our home - Topplagy ×									
Topology 🔻						Í				
🕂 Add Areas   🔹 🗙 Dagte 붗 Download   🔹 🕕 Info 👻 🕤 Reset 🤌 Unit	oad 🔻 🤅	🔿 Print								
Topology Backbone 🔹	Nu	m Name	Object Function	Description	Group Ac	l Length				
Dynamic Folders	1.1.	7 BE-GT2Tx.01 Glas Push	Button II Smart with ter	mperature sensor						
▲ 🔡 1 Neuer Bereich	∎‡ 106	Day / Night	Day = 1 / Night = 0	Day / Night, Day = 1 / Night = 0	1/2/106	1 bit				
	∎‡ 107	Presence	Input	Presence, Input	1/2/107	1 bit				
	∎‡ 108	Temperature measured.	Output	Temperature measured value, Output	1/2/108	2 bytes				
1.1 STV-0640.02 KNX Bus Power Supply 640m2	■‡ 112	Time	Receive current value	Time, Receive current value	1/2/112	3 bytes				
Interface with Secure	■2 114	Time/Date	Receive current values	Time/Date, Receive current values	1/2/114	8 bytes				
I.1.2 SCN-IP000.03 Email for IP Interface with Secure	■‡ 119	Message text (lowest p	. Input	Message text (lowest priority), Input	1/2/119	14 bytes				
▶	∎‡ 120	State text 1	Input	State text 1, Input	1/2/120	14 bytes				
1 1 8 AKS 2416 02 Switch Actuator 24 fold 12SU 16A	■‡ 121	State text 2	Input	State text 2, Input	1/2/121	14 bytes				
1.1.8 AK3-2410.05 Switch Actuator 24-1010, 1230, 10A	■2 126	Push button operation	Output	Push button operation, Output	1/2/126	1 bit				
1.1.9 JAL-0810M.02 Shutter Actuator 8-fold with travel time measureme	$\bigcirc$ 1.1.	9 JAL-0810M.02 Shutter	Actuator 8-fold with tra	vel time measurement, 8SU MDRC, 23	OVAC. 10A					
I.1.10 AKH-0800.03 Heating Actuator 8-fold, 4SU MDRC, 24/230VAC	<b>■‡</b>  0	Central function	Shutter up/down	Central function, Shutter up/down	1/3/0	1 bit				
I.1.11 AKD-0401.02 Dimming Actuator 4-fold	∎ <b>‡</b> 1	Central function	Slats adjustment / Stop	Central function, Slats adjustment / St	1/3/1	1 bit				
1.1.12 SCN-RTC20.02 Time Switch 20-channel with colour display	∎‡ 2	Central function	Stop	Central function, Stop	1/3/2	1 bit				
1113 BE-GBZy 01 Glass Central Operation Unit Smart	∎‡ 3	Central function	Absolute position	Central function, Absolute position	1/3/3	1 byte				
1 1 1 1 SCN_WS2HW 01 Weather station Home	∎≵ 4	Central function	Absolute position of sl	. Central function, Absolute position of	1/3/4	1 byte				



III ETS5™ - MDT test	
ETS Edit Workplace Commissioning Di	agnostics Apps Window
💊 Close Project 🖍 Undo 🛝 Redo	Reports Workplace
MDT test - Topology 2 × Our home - Topo	ology
Topology 🔻	
🕂 Add Areas 🔹 🗙 Dylete  ± Download 🖛	🔹 🕕 Info 💌 💋 Reset 🧳 Unl
Topology Backbone	<ul> <li>Addres Room Des</li> </ul>
Dynamic Folders	
🔺 🔡 1 New area	
🗄 1.1 New line 💊  3	
🗄 🕕 Copy to	

After you have dropped the devices in the test project, select "Keep" group addresses in the following window and click OK.

Paste Special 1.1.7 BE-GT2Tx.01 Glas Push Button II Smart with temperature sensor, 1.1.9 JAL-0810M.02 Shutter A	ctuator 8-fold wit
Number of items 1 🐥	
Group Addresses	
<ul> <li>Don't Copy</li> <li>Keep</li> <li>Create new group address in middle group</li> <li>0/0</li> </ul>	
Generate Address	
O Fill up (use first free)	
Append	
Start with: 1 ‡	
Offset: 0 ÷	
	OK Cancel

The devices are copied now into the MDT test project including their group addresses.

**Important**: The physical addresses of the devices are not copied! Always adjust the physical addresses in the MDT test project afterwards.



#### **Option 2, via copy and paste special:**

Hold down the "ctrl" key and select the devices you want to copy from your existing project into the MDT test project. Now right-click on a selected device and select "Copy". Switch to line 1.1 in the MDT test project, click with the right mouse button and select "Paste Special".

III ETS5™ - Our home			
ETS Edit Workplace	Com	missioning Diagnostics App	s Window
👩 Close Project 🛛 🎸 Ur	ndo	💊 Redo 🛛 🚔 Reports	Workplace *
MDT test - Topology	0	ur home - Topology 🛛 🗙	
Topology 🔻			
🕂 Add Areas   🔹 🗙 Delete	•	Download 🔻 🕕 Info 🔹 🐓	🔉 Reset 🧳 Unloi
Topology Backbone			•
Dynamic Folders			
🔺 🔡 1 Neuer Bereich			
🔺 📙 1.1 Neue Linie			
1.1 STV-0640.02 KN	IX Bu	s Power Supply 640mA	
III 1.1.1 SCN-IP000.03 IF	P Inte	erface with Secure	
I.1.2 SCN-IP000.03 E	mail	for IP Interface with Secure	
🕨 🕨 1.1.7 BE-GT2Tx.01 G			
1.1.8 AKS-2416.03 S		Download	,
1.1.9 JAL-0810M.02	47	Unload	•
1.1.10 AKH-0800.03	0	Info	•
▶ 1.1.11 AKD-0401.02	ŋ	Reset Device	Ctrl + R
I.1.12 SCN-RIC20.0 I.1.13 BE-GB7x.01 G		Compare Device	
▶ • 1.1.14 SCN-WS3HW		Print Labels	
I.1.15 SCN-BWM55		Transfer Parameters and Flags	
🖻 ا 1.1.16 VisuControl E		Unlink	
I.1.17 AKD-0424R.0	~		
	-	Add To Device Templates	►
	×	Delete	Del
	₽<	Cut	Ctrl + X
		Сору	Ctrl + C
	Ē	Paste	
	Ē	Paste Special	Ctrl + V
	$\cong$	Paste Extended	
		Properties	Alt + Enter



Paste Special

Сору

# Solution proposal MDT test project



After you have dropped the devices in the test project, select "Keep" group addresses in the following window and click OK.

	0	
'aste Special		
1.7 BE-GT2Tx.01 Glas Push Button II Smart with temperature senso	r, 1.1.9 JAL-0810M.02 Shutter Actuator 8-fc	iw blc
lumber of items 1 🌻		
Group Addresses		
Don't Copy		
O Keen		
Create new group address in middle group		
Generate Address		
Fill up (use first free)		
Append		
Start with: 1 ‡		
Offset: 0		
	ОК	Car

The devices are copied now into the MDT test project including their group addresses.

Important: The physical addresses of the devices are not copied! Always adjust the physical addresses in the MDT test project afterwards.



#### **Export the diagnostic recording:**

Record the observed behaviour in the ETS diagnosis and export the recording as an .xml file. To do this, stop the diagnosis and save the entire recording.

Diagnostics -									
- Monitor		Start 🔲 Stop 🥜 Cl	ear 🛛 🗲	Open 🛃 Save	Rrir	nt 🗔 Replay Telegrams	Options  Gr	oup Functions	
Group Monitor	Grou	p Address		Data point typ	ta point type 1.001 switch 💌				
Bus Monitor	Last	received value		Value	Off	•			
- Diagnostics	# *	Time	Source	Source Name	Destinatio	Destination Name	DPT	Info	
~	1	01.07.2021 11:22:51,418						Recording was started, Host=TECH	
Device Info	2	01.07.2021 11:22:52,356	1.12.1	SCN-WS3HW.01	0/3/43	Helligkeit West, Messwert	9.004 lux (Lux)	14 1A   42 Lux	
= Individual Addresses	3	01.07.2021 11:22:58,356	1.12.1	SCN-WS3HW.01	0/3/4	Helligkeit Ost, Messwert	9.004 lux (Lux)	15 F5   61 Lux	
Individual Addresses	4	01.07.2021 11:23:00,356	1.12.1	SCN-WS3HW.01	0/3/19	Helligkeit Süd, Messwert	9.004 lux (Lux)	14 33   43 Lux	
Programming Mode	5	01.07.2021 11:23:02,356	1.12.1	SCN-WS3HW.01	0/3/43	Helligkeit West, Messwert	9.004 lux (Lux)	14 65   45 Lux	
Individual Address Check	6	01.07.2021 11:23:08,352	1.12.1	SCN-WS3HW.01	0/3/4	Helligkeit Ost, Messwert	9.004 lux (Lux)	15 C3   59 Lux	
Individual Address Check	7	01.07.2021 11:23:10,352	1.12.1	SCN-WS3HW.01	0/3/19	Helligkeit Süd, Messwert	9.004 lux (Lux)	14 65   45 Lux	
Line Scan	8	01.07.2021 11:23:12,352	1.12.1	SCN-WS3HW.01	0/3/43	Helligkeit West, Messwert	9.004 lux (Lux)	14 7E   46 Lux	
	9	01.07.2021 11:23:17,920						Recording was stopped	

#### **Reading out the Device Info:**

With the device info, we can see exactly which device revision do you have. To do this, right-click on the corresponding device and select "Info"-> "Device Info".

ETS5™ - Our home							
ETS Edit Workplace Commissioning Diagnostics Apps Windo	w						
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MDT test - Topology Our home - Topology, ×							
Topology 🔻							
🕂 Add Areas 🔹 🗙 Delete 붗 Download 🖃 🕦 Info 🔹 🕥 Reset	♀ Unload ▼		Print				
Topology Backbone	- ^ N	Num	Name		Object Function	Description	
Dynamic Folders	■之 10	D6 D	Day / Night		Day = 1 / Night = 0	Day / Night, Day = 1	/ Night = 0
▲ 🔡 1 Neuer Bereich	■之 10	07 P	resence		Input	Presence, Input	
	■之 10	08 T	[emperature	measured	.Output	Temperature measur	ed value, Output
	■之 11.	12 T	lime		Receive current value	Time, Receive curren	t value
1.1 STV-0640.02 KNX Bus Power Supply 640mA	■之 11	■ <b>2</b> 114 Time/Date		Receive current values		Time/Date, Receive current values	
Interface with Secure	■之 11	19 N	vlessage tex	t (lowest p	Input	Message text (lowest	t priority), Input
I.1.2 SCN-IP000.03 Email for IP Interface with Secure	■₹ 12	20 S	state text 1		Input	State text 1, Input	
► T 1.1.7 BE-GT2Tx.01 C ush Button II Sma	<b>■</b> 7 12	21 S	itata tavt ?		Input	State text 2, Input	
🖻 🔲 1.1.8 AKS-2416.03 Switch Actuator 24-fold 🛨 Download			•	operation	Output	Push button operation	on, Output
I.1.9 JAL-0810M.02 Shutter Actuator 8-fo			+				
▶ ┨ 1.1.10 AKH-0800.03 Heating Actuator 8-fc 🕦 Info 🛛 🙎			•	Device Inf	fo N 3	Ctrl + I	
		Ctrl	+ R	Device Inf	ि (With Group Commu	nication)	



After reading out, click on the small symbol in the history of the ETS on the right. A new window opens with information which you can save at the top left.



🖬 Save 🕻 🖻 Copy To Clipboard 📄 Print 🗙 Close		
L9 <sup>3</sup>		
Device Info of Device 1.1.7		
General		
Item	Value	Unformatted value
Mask Version	0705	1797
Individual Address	1.1.7	4359
Device Manufacturer	MDT technologies	131
Order Number	\$30544153383654010F28	30544153383654010F28
Serial Number	0083:7190441F	00837190441F
Hardware Type	\$0000000227	00000000227
Programming Mode	Off	false
Application Program		
Item	Value	Unformatted value
Application program	MDT technologies Push Button II Smart, Temperature V2.8	0083008A28
Load State	Loaded	1
Run State	Running	1
Application Program 2		
Item	Value	Unformatted value
Application program	0 0000 V0.0	000000000
Load State	Unloaded	0
Run State	Halted	0
Group Communication		
Item	Value	Unformatted value
Address Table Load State	Loaded	1
Association Table Load State	Loaded	1

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