

30 V DC BUS KNX

router

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# 1. INTRODUCTION

The descriptions provided in this manual are intended to familiarise the installer with the configuration tool simulator provided by Hager.

The procedures described in this manual are intended to help the installer when installing and using this simulator.

The TXA100 simulator is a Windows application that can be installed on a desktop or laptop computer and is used for training, supporting and learning the configuration tool.

In addition to the simulator reproducing the configuration tool functions, it includes an additional simulator configuration part.

The two parts are:

- The **trainer configuration**, which is used to create a database from the saved files of existing installations containing products to simulate.
- The **user configuration**, which is used to define product lists that can be recognised when simulating installations.
- > Comment: For conventional use of the TXA100 configuration tool, please refer to the installer manual.

# 2. INSTALLING THE SOFTWARE

The software can be installed on PCs with the following configuration:

- 32 or 64-bit versions of the Microsoft Windows XP SP3, Windows Vista, Windows 7, 8 or 10 operating systems.
- Java, version 7.0 or above.

The installation file is available from the Hager customer support centre.

To install the TXA100 simulator software:

- Unzip the 'SimulationInstaller.zip' file
- Run the 'SimulationInstaller.exe' setup program
- Select the 'My Documents' directory during installation.



Do not install the software in the default directory or on the Windows desktop.

- When the installation finishes, two additional icons will appear on the desktop:

The Server Program



#### The Client Program



# 2.1 THE SERVER PROGRAM

- Click the server icon to run the program

A window appears indicating that the server program has started correctly:

2 TXA100 Simulator	
Server is starting, please wait	<u>^</u>
Server is started.	=
	-

# 2.2 THE CLIENT PROGRAM

- Click the client icon to run the program

A window appears showing the general configuration tool screen:



Comment: The server can be reached by entering the following address into a web browser: http://localhost:8080/rootapp/index.html.

# 3. SIMULATOR

This part is used to create a database from the saved file of an existing installation containing the products to simulate and to define the list of products that will be recognised when simulating an installation.

						Simulator	¢,
+ New -	Dpen Open	🖉 Edit	Delete				
Name			▲ Date		Memo		

To configure the simulator, click **Simulator**.

# 3.1 TRAINER CONFIGURATION: CREATE A SIMULATED INSTALLATION

Before you can create a simulation, you must load the saved file of the desired installation.

Simulator			
Name of the current simulated installation S	Select a file		
Import an installation for simulation Create	a simulated installation		
No product present in the simulated installa	tion		
	Close		
	Close		

- Click Create a simulated installation.

Create a simulated installation				
Creation of a simulation out of an installation file				
This operation creates a virtual instalallation identical to the installation of the saved file.				
This operation may last several minutes				
Choose a file				
	Br	rowse		
Import	Cancel			

- Click **Browse** to select the installation file to import.

#### A window appears:

Image: Comparison of the second s				
Organize 🔻 New folder			:= (	
Documents library Downloads			Arrange by: Folder 🔻	
Name	Date modified	Туре	Size	
Installation - 01 - 2000-01-03_07-07.t	xa 05/07/2017 17:20	TXA File	20 KB	

Select the desired installation file and click **Open.** 

Create a simulated installation					
Creation of a simulation out of an installation file					
This operation creates a virtual instalallation identical to the installation of the saved fi					
This operation may last several minutes					
Installation - 01 - 2000-01-03_07-07.txa					
	Browse				
Import Cancel					

Once the file is selected, click Import.

A window appears:

Confirmation	I.		
	Do you want to reset the ir	stallation in factory status?	
	Yes	No	

- Select **Yes** to reset all the products in the installation to factory defaults. This operation is necessary to allow the products to be discovered when new installations are created.
- Select **No** to keep the installation product settings. This operation is used to create a new relearning installation.

For more information, please refer to chapter 3.4 Creating an installation

#### A window appears:

Confirmation	1		
Save this simulation?			
	Yes	No	

- Select Yes to save the simulation

A window appears:

📀 Save As			<b>×</b>
🚱 🔍 🗣 🖡 🕨 Libraries 🕨 Documents 🕨	Downloads	✓ 4 Sec	arch Downloads
Organize 🔻 New folder			:= • 🔞
Documents library Downloads			Arrange by: Folder 🔻
Name	Date modified	Туре	Size
SimulationData.sbus	24/08/2017 17:12	SBUS File	4 KB
File name: SimulationData.sbus			•
Save as type: Fichier SBUS (.sbus)			•
) Hide Folders			Save Cancel

- Enter a new name or use the default name.
- Click Save.
- Archive the backed up file.

#### > Note :

The file management window may not appear. In this case, the file is directly generated with the default name in the downloading directory in your web browser. For this window to appear, refer to your web browser settings in the Downloading tab.

# 3.2 USER CONFIGURATION: IMPORTING AN INSTALLATION TO SIMULATE

This part is used to choose the desired simulation.

Simulator			
Name of the current simulated installation Select a file			
Import an installation for simulation Create a simulated installation			
No product present in the simulated installation			
Close			

- Click Import an installation for simulation.

Import an installation for simulation	$\times$	
Choose a file		
	(	Browse
Import	Cancel	

- Click **Browse** to choose the installation file to simulate.

#### A window appears:

) Open G ⊂ ↓ Libraries → Document:	s      Downloads	• 4 <del>3</del>	Search Downloads
Organize 🔻 New folder			!≡ ▼ 🗐 (
Documents library			Arrange by: Folder 🔻
Name	Date modified	Туре	Size
SimulationData.sbus	24/08/2017 17:12	SBUS File	4 KB
File name:		•	Fichier SBUS (.sbus)
		(	Open 😽 Cancel

- Select the desired simulation file and click **Open**.

#### 3.3 CHOOSING PRODUCTS

Once the installation to simulate has been created, products can be deselected to prevent them from appearing during discovery in future installations.

Simulator	>
Name of the current simulated installation Installation - 01 - 2000-01-03_07-07 txa	
Import an installation for simulation Create a simulated installation	
Products present in the simulated installation	
1 7 Products	
TXA610 - 1 - Output 10 -fold Product in factory status	•
TXA624C - 1 - Output device for 4 shutters/blinds 230V- Product in factory status	•
TXA663A - 1 - 3-fold dimming actuator 300W, universal Product in factory status	•
TXE530 - 1 - GPS Weather station Product in factory status	•
WST302 - 1 - SystolEssensya push-button KNX 2gang Product in factory status	
WST316 - 1 - SystolEssensya push-button KNX 6gang, with LED Product in factory status	•
WST324 - 1 - SystolEssensya push-button KNX 4gang, with LED and IR Product in factory status	
Close	

# - Click to select or deselect products.

Simulator	×
Name of the current simulated installation Installation - 01 - 2000-01-03_07-07.txa	
Import an installation for simulation Create a simulated installation	
Products present in the simulated installation	
🗇 7 Products	
TXA610 - 1 - Output 10 -fold Product in factory status	
TXA624C - 1 - Output device for 4 shutters/blinds 230V- Product in factory status	
TXA663A - 1 - 3-fold dimming actuator 300W, universal Product in factory status	
TXE530 - 1 - GPS Weather station Product in factory status	
WST302 - 1 - SystorEssensya push-button KNX 2gang Product in factory status	
WST316 - 1 - Systo/Essensya push-button KNX 6gang, with LED Product in factory status	
WST324 - 1 - SystorEssensya push-button KNX 4gang, with LED and IR Product in factory status	
Close	

symbol indicates that the product has not been selected. The

# 3.4 CREATING AN INSTALLATION

There are 2 ways to create an application:

- By discovering products
- By relearning an installation.

#### 3.4.1 PRODUCT DISCOVERY



- Click Create a new installation from the main menu.
- Enter the name of the installation and the other data
- Open the newly-created installation.

When the new installation opens, a window appears:

Information			
	No product is prese	ent in the installation	
	Start discovery	Close	

#### - Click Start discovery

The program recognises the products and creates the installation.

Comment: To allow products to be recognised, the product settings must be reset to factory status when the simulation is created (chapter 3.1).

### 3.4.2 RELEARNING AN INSTALLATION

		Simulator 🧳
+ New - 🕞 Open	🖉 Edit 📺 Delete	
Create a new installation	▲ Date	Memo
Import installation		

- Click **Create a new installation** from the main menu.
- Enter the name of the installation and the other data
- Open the newly-created installation.

When the new installation opens, a window appears:

Information			
	No product is prese	nt in the installation	
	Start discovery	Close	

- Click Close
- Click the Detail tab

Installations	Detail Products	- Channels	O Location	Simulator 🔸 🖹	*
Installation - 01     Manage      Export      Export      Relearn installation	Contents		A	rchives	
Factory reset of the whole installation Factory reset of unknown TP products Factory reset of unknown RF products Download all devices of the installation	☐ 0 Product -		Last update Friday 25 August Last export No date last date of export No date		
Factory reset of RF Coupler RF coupler detection					

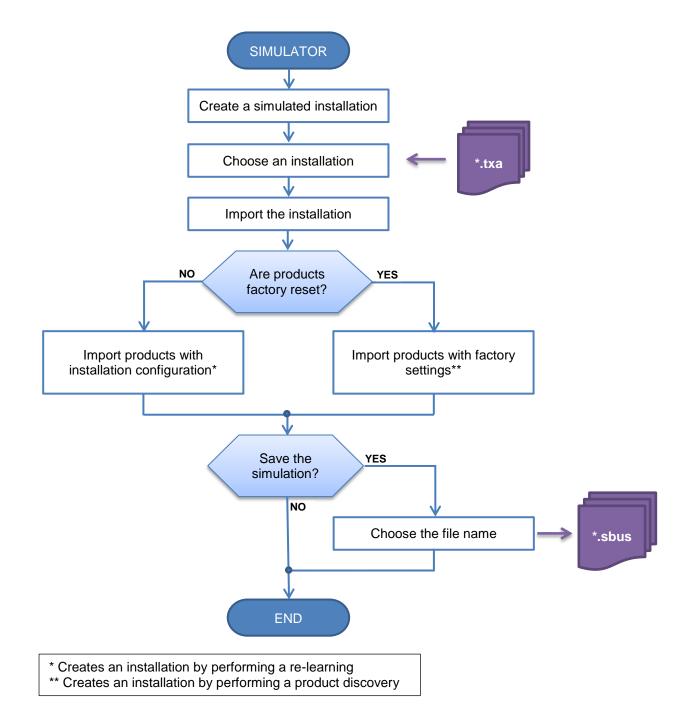
- Click Manage and Relearn installation

The program recognises the products and creates the installation.

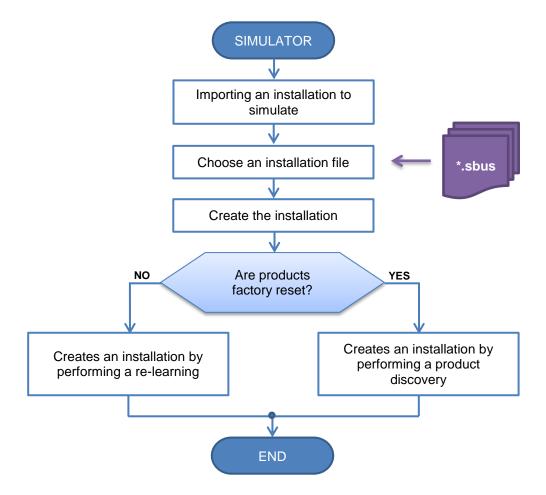
Comment: To allow products to be recognised, the product settings must not be reset to factory status when the simulation is created (chapter 3.1).

# 3.5 OPERATING PRINCIPLE

## 3.5.1 FOR TRAINERS



#### 3.5.2 FOR INSTALLERS



# 3.6 SETUP MENU

This section is for setting up the configuration server.



Click on , a scroll-down list appears:

- My profile
- Configuration
- About

#### 3.6.1 PROFILE MANAGEMENT

						Simulator 💉
						ti My profile
						Configuration
+ New -	🗁 Open	🖉 Edit	Delete			About
Name			▲ Date		Mem	0

Click on , then **My profile** to complete the Installer profile.

-

Ny profile			
Name		Address	
Company			
Phone		Postal Code	
Mobile		City	
Email		Country	
		France	~
	Save	Cancel	

Click on Save after entering your profile. -

# 3.6.2 SERVER CONFIGURATION

						Simulator 💕
						ti My profile
						Configuration
+ New -	🗁 Open	🖉 Edit	Delete			About
Name			▲ Date		Mem	0
فيد						

Click on **Line**, then **Configuration**; a "Configuration" window appears

This configuration has several tabs :

- o KNX
- Server optionsDisplay settings

-

# TXA100 Simulator User manual

#### 3.6.2.1 KNX

Configuration			×
KNX Server options Display setting	;		
Physical address : 1.5.25	4		
State: Conne	cted Connect	Disconnect	
	· · · · ·		
	Save	Cancel	

- Click on the KNX tab to see:
  - The server's physical address,
  - The status: connected or not,
- Click on **Connect** or **Disconnect**, whichever is needed.
- Click on **Save** to confirm your choices.
- 3.6.2.2 Server options

Configuration				×		
KNX Server options	Display settings					
	⊠ Enable	e configuration facilitation of in	nput channels (Rocker function)			
	□ Activa	te automatic discovery				
	Activation period 10 min.					
		Save	Cancel			

- Click on the Server options tab to access the configuration server's operational mode
- Activate the input channel configuration support (Rocker function): depending on the type of function selected, the system will propose by default the associated function in the second input.

Select function			×
Outputs selected :			
WST302 - 1 - 1 算▲	Blinds Up 🗸 1 📑		
WST302 - 1 - 2 鯶▼	Blinds Down	~	1 📰 🚺
	Link	Cancel	

- **Activate automatic discovery**: permits automatic scanning of the installation to discover new products.
- Activation period: duration between 2 automatic scans (10 mins. by default)

#### 3.6.2.3 Options du client

Configuration X			
KNX Server options Display	settings		
Language:	English		
Time format:	24h 🗸		
Theme: I Black U White			
☑ Display arrow to acceed details			
☑ Activate confirmation popups			
	Save Cancel		

- Click on the Display settings tab to access the client-side operating mode :
  - ✓ Language: Click on it to select your language from the scroll-down list.
  - Time Format: Click on to select the format from the scroll-down list.

✓ Theme: This function enables the background theme to be changed.

• Choose between two background colours: Black or white.

		o°			ర
🕈 New + 🏷 Open	🖉 Edit 💼 Delete		🕂 New 👻 🗁 Open	🖉 Edit 📺 Delete	
\$ Name	▲ Date	Memo	Name	▲ Date	Memo
Installation - 01	Thursday 16 February 2017 - 09:16	2	Installation - 01	Monday 29 June 2015 - 16:10	

- Activate an arrow to access the detailed view: used to select the display mode for the access to the detailed view.
  - $\circ$  Active

0

🗇 8 Products	
TXA610 - 1 - Output 10 -fold TXA610 - No function	
Inactive	
🗇 8 Products	
TXA610 - 1 - Output 10 -fold	

 Activate confirmation pop-ups: permits display of a confirmation window for certain actions (switching to localisation mode for example).

