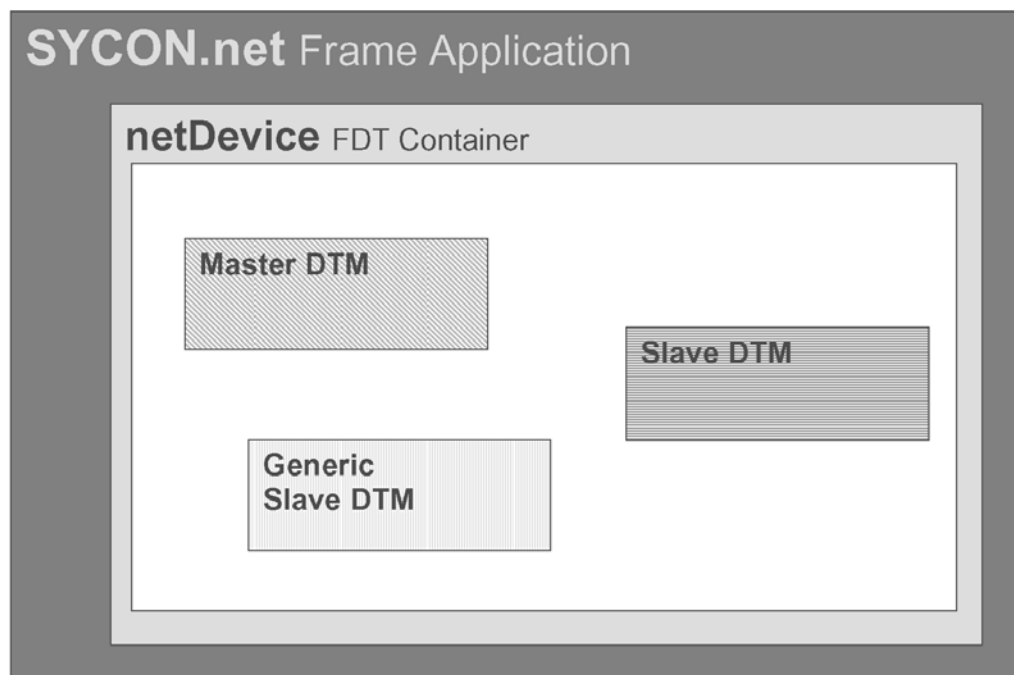


## Operating Instruction Manual

### SYCON.net

#### Frame Application



**Hilscher Gesellschaft für Systemautomation mbH**

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# 1 Introduction

## 1.1 About this Manual

### 1.1.1 Short Description

The configuration software described here is a FDT frame application to configure communication-capable fieldbus devices of different manufacturers in one project.

In accordance with the FDT Specification 1.2 (Field Device Tool Specification) the configuration software is used as a frame application for DTM (Device Type Manager), which are provided by the field device manufacturers.

Via the communication channel (Master DTM) the communication with the field devices is set up. The field devices use protocols as e. g. PROFIBUS.

### 1.1.2 Overview

The table below gives an overview of the descriptions provided in this manual:

Section	Subsection	Manual Page
Menus	<i>The Menu Bar</i>	10
	<i>Toolbars</i>	10
How to use	<i>Start Program</i>	14
	<i>Create New Project / Open Existing Project</i>	16
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	<i>User Management</i>	17
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Table 1: Overview

### 1.1.3 Online Help

The frame application contains an integrated online help facility.

- To open the online help, click on the **Help** button or press the **F1** key.

## 1.1.4 List of Revisions

Index	Date	Version	Component	Chapter	Revision
11	06.09.13	1.1203.x.x	AxSyconu.ocx	1.4	Section <i>System Requirements</i> updated, Windows® 8 added.
12	21.05.15	1.1207.x.x	AxSyconu.ocx		Section <i>Installation</i> removed. Detailed descriptions for installation you find in the separate software installation manual for your product.
13	17-02-24	1.2000.x.x	AxSyconu.ocx	1.4	Section <i>System Requirements</i> , Internet access added, Windows 8.1 and Windows 10 added.

## 1.1.5 Conventions in this Manual

Notes, operation instructions and results of operation steps are marked as follows:

### Notes



**Important:** <important note you must follow to avoid malfunction>



**Note:** <general note>



<note, where to find further information>

### Operation Instructions

1. <instruction>

2. <instruction>

or

➤ <instruction>

### Results

↪ <result>

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## 1.4 System Requirements

- PC with 1 GHz processor or higher
- Windows® XP SP3,  
Windows® Vista (32 bit) SP2,  
Windows® 7 (32 bit und 64-Bit) SP1,  
Windows® 8 (32-Bit und 64-Bit),  
Windows® 8.1 (32-Bit und 64-Bit),  
Windows® 10 (32-Bit und 64-Bit)
- Administrator privilege required for installation
- Internet Explorer 5.5 or higher
- RAM: min. 512 MByte, recommended 1024 MByte
- Graphic resolution: min. 1024 x 768 pixel
- Keyboard and Mouse
- Restriction: Touch screen is not supported.



**Note:** If the project file is used on another PC,

- the other PC must also comply to these system requirements,
- the device description files of the devices used in the project must be imported to the configuration software SYCON.net on the other PC,
- respectively the DTMs of the devices used in the project must be installed on the other PC.

## 2 Windows and Menus

### 2.1 Output Window

The **Output Window** contains index cards, which indicate:

- Information, warnings and error messages in plain text.
- The numbers of the index card are installation qualified.



Figure 1: Output Window

The following icons can be found in the **Output Window** above. They symbolize the failure class.

	IMPORTANT	Icon appears if an important failure is detected.
	WARNING	Icon appears in case of a warning.
	INFORMATION	Used for informational purposes.
	SUCCESS	Program step was executed without failure.
	FATAL	Program step was executed with a fatal fault; task following the icon did not complete.



**Note:** The executed program task is described in the **Output Window** besides the icon.

### 2.2 The Menu Bar

The menu bar of the configuration software contains pull down menus, via which all available program functions can be called up.



Figure 2: Menu bar



**Note:** The two menus **Device** and **Network** are not a function of the frame application, but dynamic menus of the FDT of container netDevice. That means these menus are only faded in the menu bar, if the windows **netProject** or **netDevice** of the FDT container are activated.

## 2.2.1 File

The **File** menu contains functions for working on projects.

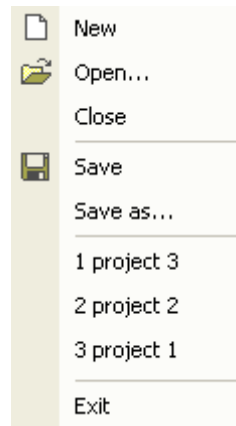


Figure 3: Menu File

Menu	Meaning
<b>New</b>	Creates a new project. At least the <i>User Rights</i> (described on page 20) of maintenance are necessary.
<b>Open</b>	Opens an existing project.
<b>Close</b>	Closes the actual opened project. If changes are not stored yet, a dialog appears which requests the user to save the project before closing.
<b>Save</b>	Saves the actual configuration. Therefore at least the <i>User Rights</i> (described on page 20) of maintenance are necessary.
<b>Save As</b>	Saves the project file with a new name. Therefore at least the <i>User Rights</i> (described on page 20) of maintenance are necessary.
<b>Exit</b>	Closes the program. If changes of the project file are not stored yet, a dialog appears which requests the user to save the project before ending.

Table 2: Menu File



**Note:** The button **Project** is only enabled, if projects were already stored. If there are still no projects available on the system the button is disabled.

## 2.2.2 View

The frame application offers several possibilities for the arrangement and representation of the projects. In the menu **View** the individual tool bars and windows can be faded in and/or out.

Actual indicated tool bars and/or windows are marked in the **View** menu by a checkmark.



**Note:** The representation in the menu **View** is dynamic. That means it depends on the components which were installed during installation.

## 2.2.3 Extra

The menu **Extra** contains functions for the program settings of the frame application. These settings are stored when closing the software and called up again during the next program start.

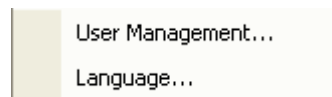


Figure 4: Menu Extra

Menu	Meaning
User Management	Opens a dialog window for setting-up, changing and deletion of users. In section <i>User Management</i> on page 18 you find detailed information about the user management.
Language	Opens a dialog window for changing the programming language. Further information for changing the programming language you find in section <i>Select Program Language</i> on page 19.

Table 3: Menu Extra

## 2.2.4 Help

The menu **Help** contains both the documentation about the frame application as well as general information about the software and a reference to the homepage of the manufacturer.

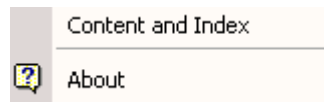


Figure 5: Menu Help

Menu	Meaning
Content and Index	Opens the documentation of the frame application.
About	Information about the program version.

Table 4: Menu Help

### 2.2.4.1 About

Shows the version of the frame application.

Menu	Meaning
Component	Displays installed components, including version and path.
Support	Opens a list of contact details of the subsidiaries.
Systeminfo	Provides technical data on the operating system.
Ok	Closes the <b>About</b> window.

Table 5: Menu About

## 2.3 Toolbars

Frequently used menu functions are united in toolbars:

### 2.3.1 Standard Toolbar

The **Standard** toolbar contains the functions (from left to the right)

- **File > New,**
- **File > Open,**
- **File > Save and**
- **Help > Info**

It is displayed or hidden via the menu **View > Standard**.



Figure 6: Standard Toolbar

### 2.3.2 Preset Toolbar

The **Preset** toolbar gives the possibility to call up to four different representations variants for a project.

The respective representation is always stored in the active view. The last representation in the respective view is called up by selecting another representation.



Figure 7: Preset Toolbar

- A right click on the Preset toolbar allows changing different view of the open project

### 2.3.3 Network Toolbars

It is possible that toolbars from further installed components are displayed in the frame application.

For example the frame application indicates a network toolbar, which is displayed and/or hidden via the menu **View > Network**, if the netDevice component is installed.

The toolbar **Network** contains the functions (from left to the right):

- **Network > Add busline,**
- **Network > Delete last busline and**
- **Network > Device Catalog**

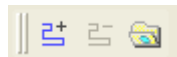


Figure 8: Network Toolbar



**Note:** The **Network** toolbar is enabled, if the focus is put on the **netDevice** or **netProject** window.

### 2.3.4 Debug Toolbar



**Note:** The menu entries for the **debug mode** are only available, if the debug mode is supported by the frame application and the Master DTM.

The debug toolbar is faded in and faded out via the menu **View > Debug**.

This toolbar contains the functions (from the left to the right):

- **Debug > Start Project Debug Mode,**
- **Debug > Stop Project Debug Mode**



Figure 9: Debug Toolbar - Start Project Debug Mode



Figure 10: Debug Toolbar - Stop Project Debug Mode

## 3 Working with the Frame Application

### 3.1 Start Program

Start the frame application via the corresponding program entry in **Start > Programs**. The following dialog window opens:


A dialog window titled 'User Registration' with a light beige background. It contains two labels: 'User Name:' and 'Password:'. The 'User Name:' label is followed by a pull-down menu showing 'Administrator'. The 'Password:' label is followed by an empty text input field. At the bottom right, there are two buttons: 'OK' and 'Cancel'.

Figure 11: Start Program - User Registration

Select the **User Name** in the pull down menu and enter the **Password**. Confirm this with **OK**.



**Note:** With the first program start a request appears, to type in a password for the administrator. This password must be confirmed by entering it again. This password can be changed by the administrator with the menu **Extra > User Management**.



**Note:** Please note, that the capitalization of the password is important for the login!

In case of successful registration the software is started, otherwise the following error message appears:




Figure 12: Registration has failed




**Note:** In the dialog window of the **User Management** further users can be created. Here it must be considered that the user management can be called only by the **Administrator**. Further information about this you find in section *User Management* on page 18.



## 3.2 Create New Project / Open Existing Project

A new project is created via the menu **File > New** or by clicking the  symbol in the toolbar. Now the menus are selectable.

With the menu **File > Open** or respectively via the symbol  in the toolbar an already existing project is opened. The existing projects are indicated in the dialog window and the project which should be opened can be selected by clicking on it.

## 3.3 Save Projects

Via the menu **File > Save** or **File > Save as** or via the symbol  a project can be saved.

If the program is exit and the current configuration does not agree with the last saved configuration, the following question appears:

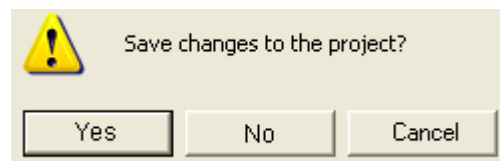


Figure 13: Security Question - Save Project

If you answer this question with **Yes**, the project data are stored. If you answer this question with **No**, the changed project data are rejected.

The saving procedure is aborted by clicking the **Chancel** button and the project data is not stored.

## 3.4 User Management

The privileges and right for individual users are specified by the **User Management**. Via the menu **Extra > User Management** the user administration is called up.



**Note:** Only the **Administrator** has the authorization to call up the user administration, to install new users or to edit existing user data. The other users do not have administrative laws. Thus the menu of the user administration is grayed out for these users and disabled.

### 3.4.1 Install User

The user **Administrator** is pre-defined and disabled. However the **Password** for the administrator can be changed.

By selecting the individual pre-defined users **Planning Engineer**, **Maintenance**, **Operator** and respectively **Observer** the respective users are created. The created users are indicated in the pull down menu **User Name** of the user login.

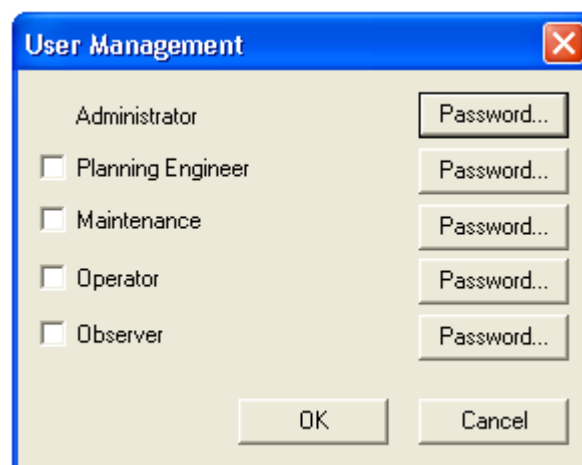


Figure 14: Extra > User Management

In section *User Rights* on page 20 you find an overview of the several users with their respective rights.

### 3.4.2 Delete User

By checking off the check box in front of the user name an existing user is deleted. The deleted user is not longer available in the pull-down menu in the login dialog.

### 3.4.3 Change Password

Via the **Password** button in the line of the respective user right a password can be assigned to each individual user group.

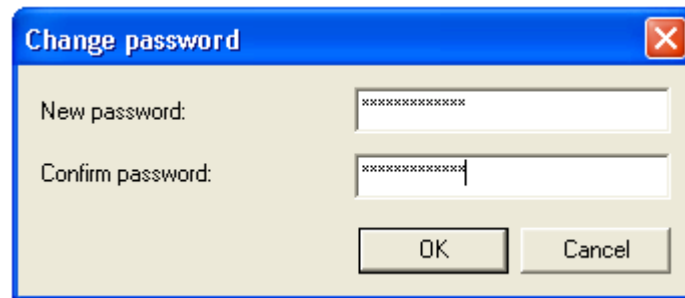
A Windows-style dialog box titled "Change password" with a blue header bar and a red close button. It contains two text input fields: "New password:" and "Confirm password:". Both fields are filled with a series of asterisks (XXXXXXXXXX). Below the fields are two buttons: "OK" and "Cancel".

Figure 15: Change password



**Note:** Please note, that the capitalization of the password is important for login!

## 3.5 Select Program Language

The menu **Extra > Options** opens the following dialog for selecting the program language:

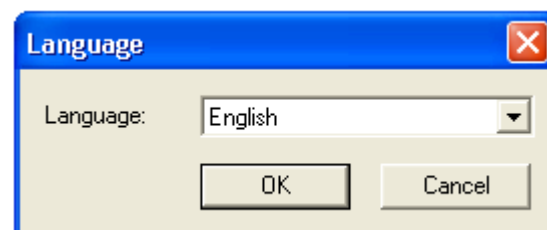
A Windows-style dialog box titled "Language" with a blue header bar and a red close button. It contains a label "Language:" followed by a dropdown menu showing "English". Below the dropdown are two buttons: "OK" and "Cancel".

Figure 16: Select Program Language

Select the desired language from the list field by clicking on it and confirm this selection with OK.

You are requested to the program again, that the change is taken over.

## 4 Appendix

### 4.1 User Rights

Apart from the administrator, which has full rights of access, there are four further user levels, which have different rights of access in each case:

Action	Observer	Operator	Maintenance	Planning Engineer
<b>File</b>				
New	No	No	Yes	Yes
Open	Yes	Yes	Yes	Yes
Close	Yes	Yes	Yes	Yes
Save	No	No	Yes	Yes
Save As	No	No	Yes	Yes
Exit	Yes	Yes	Yes	Yes
<b>View</b>				
(any)	Yes	Yes	Yes	Yes
<b>Extra</b>				
User Management	No	No	No	No
Options	Yes	Yes	Yes	Yes

Table 6: User Rights

### 4.2 References

- [1] Device Type Manager (DTM) Style Guide, Version 1.0 ; FDT-JIG - Order No. <0001-0008-000>

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## 4.5 Glossary

### DTM

Device Type Manager.

The Device Type Manager (DTM) is a software module with graphical user interface for the configuration or for diagnosis of device.

### FDT

Field Device Tool

FDT specifies an interface, in order to be able to use DTM (Device Type Manager) in different applications of different manufacturers.

## 4.6 Contacts

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