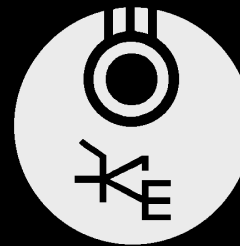


Міністерство освіти і науки України
Державний вищий навчальний заклад
“Національний гірничий університет”



КАФЕДРА ЕЛЕКТРОПРИВОДА

Кафедра електропривода

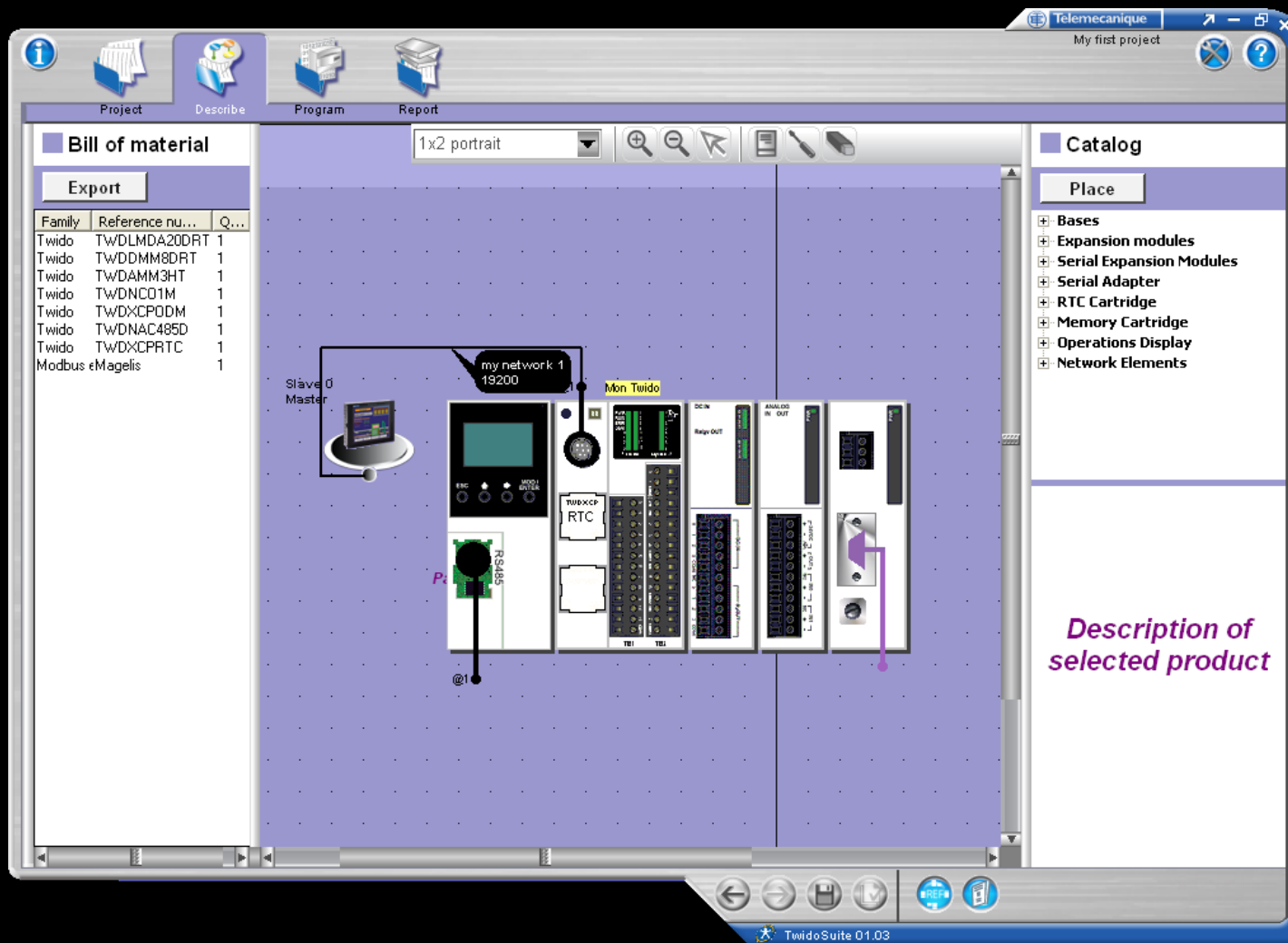
Авторизований навчальний центр “Schneider Electric”

Розробив: Яланський О.А., доцент кафедри електропривода

м. Дніпропетровськ

2007 - 2012

Twido Suite

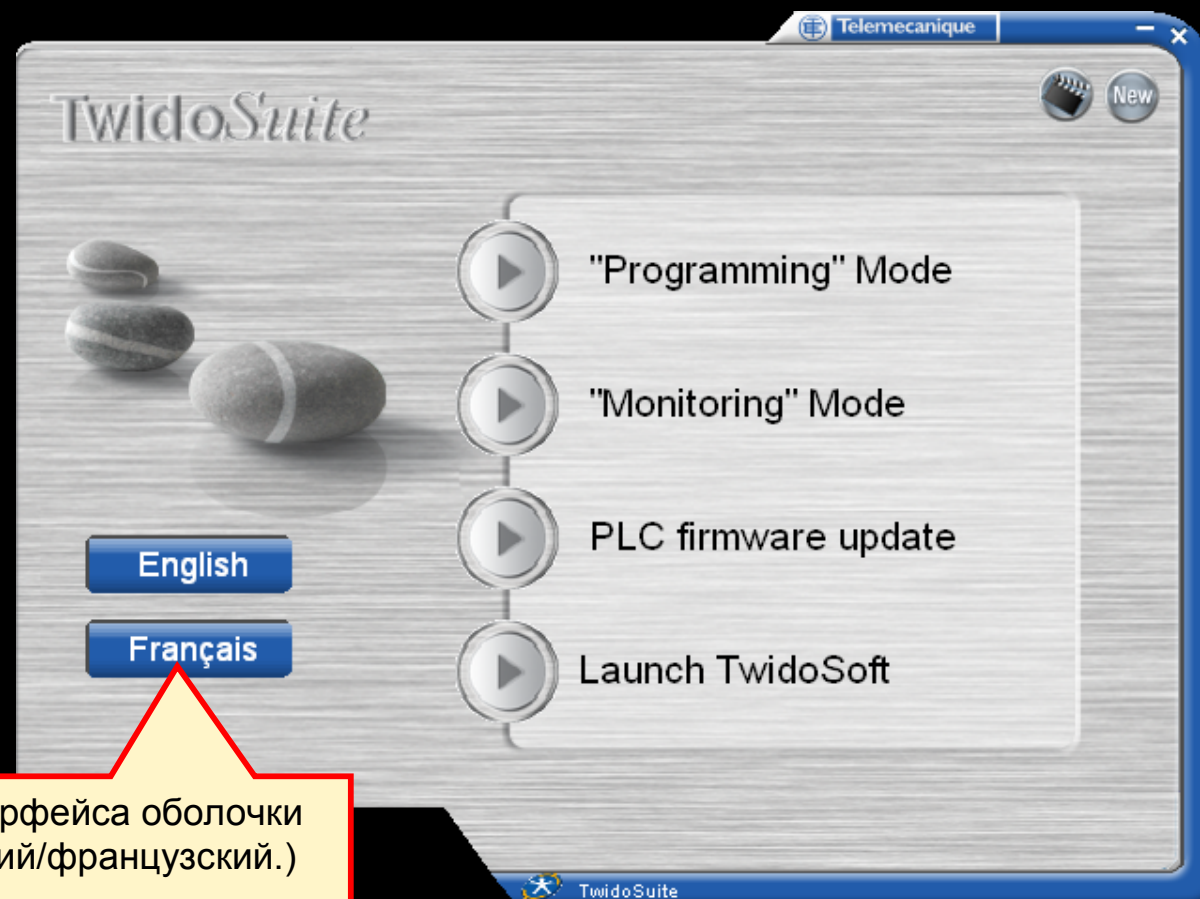


Переход на сайт
www.telemecanique.com

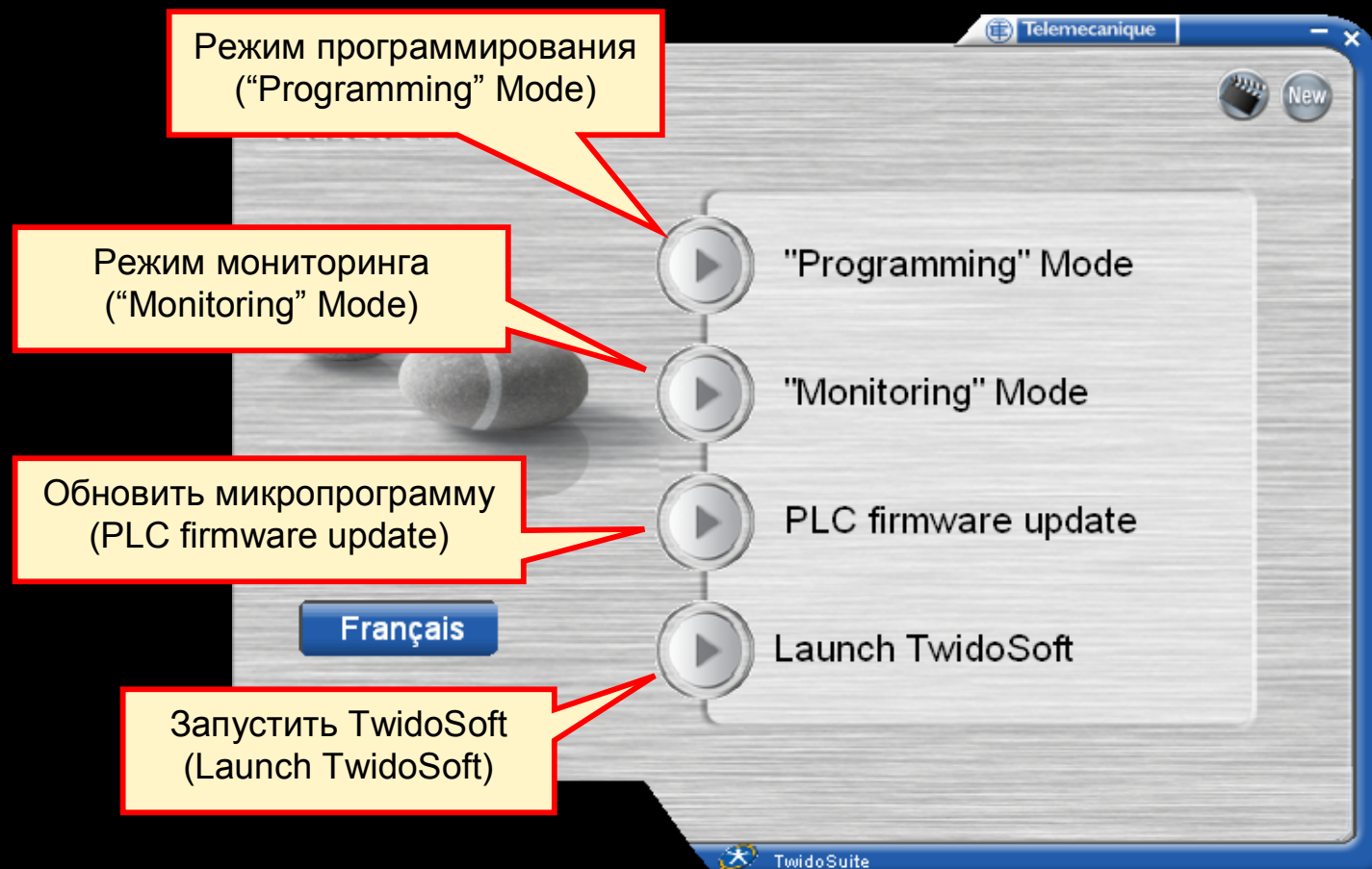
Общий обзор
(General Survey)

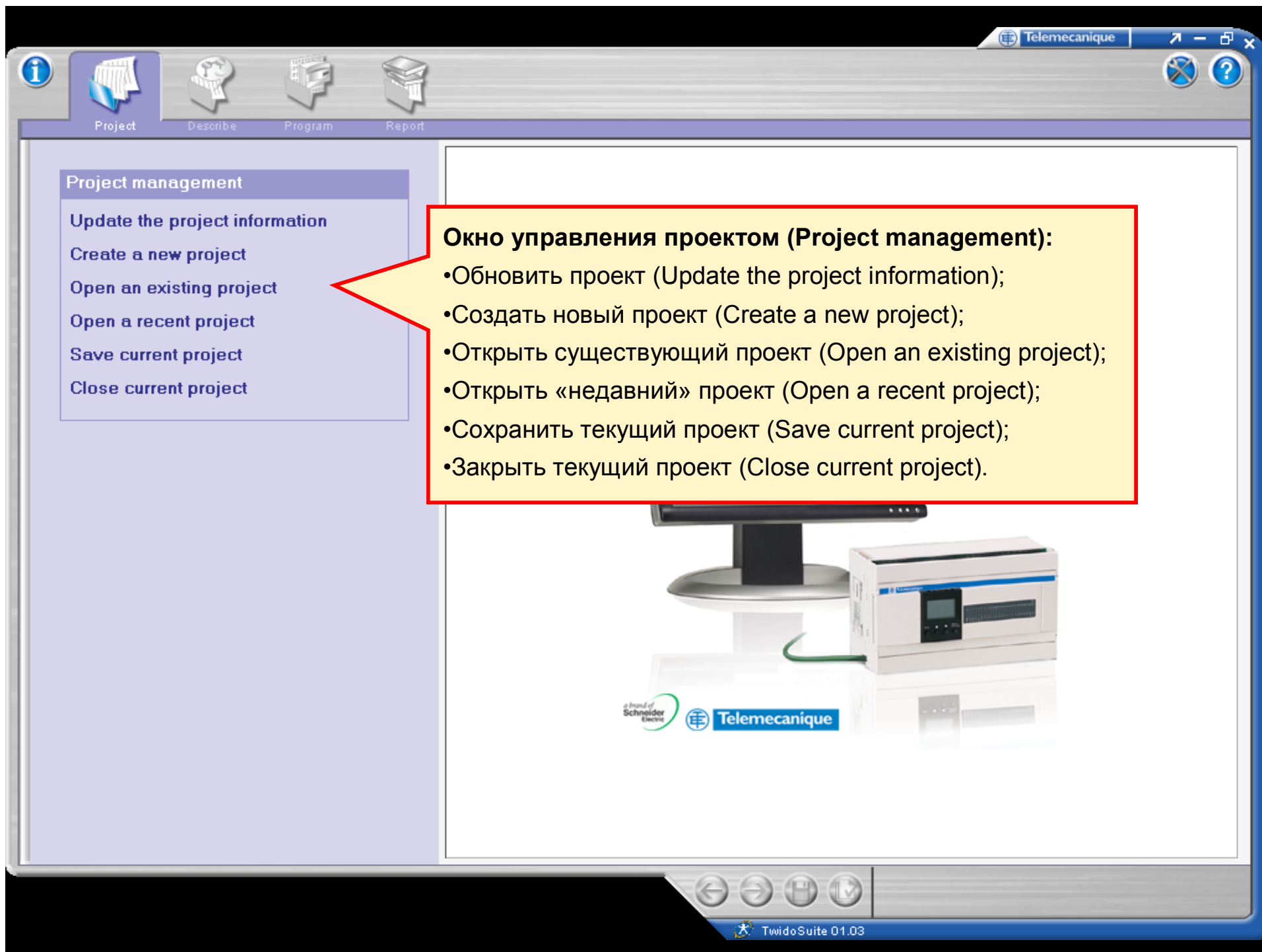


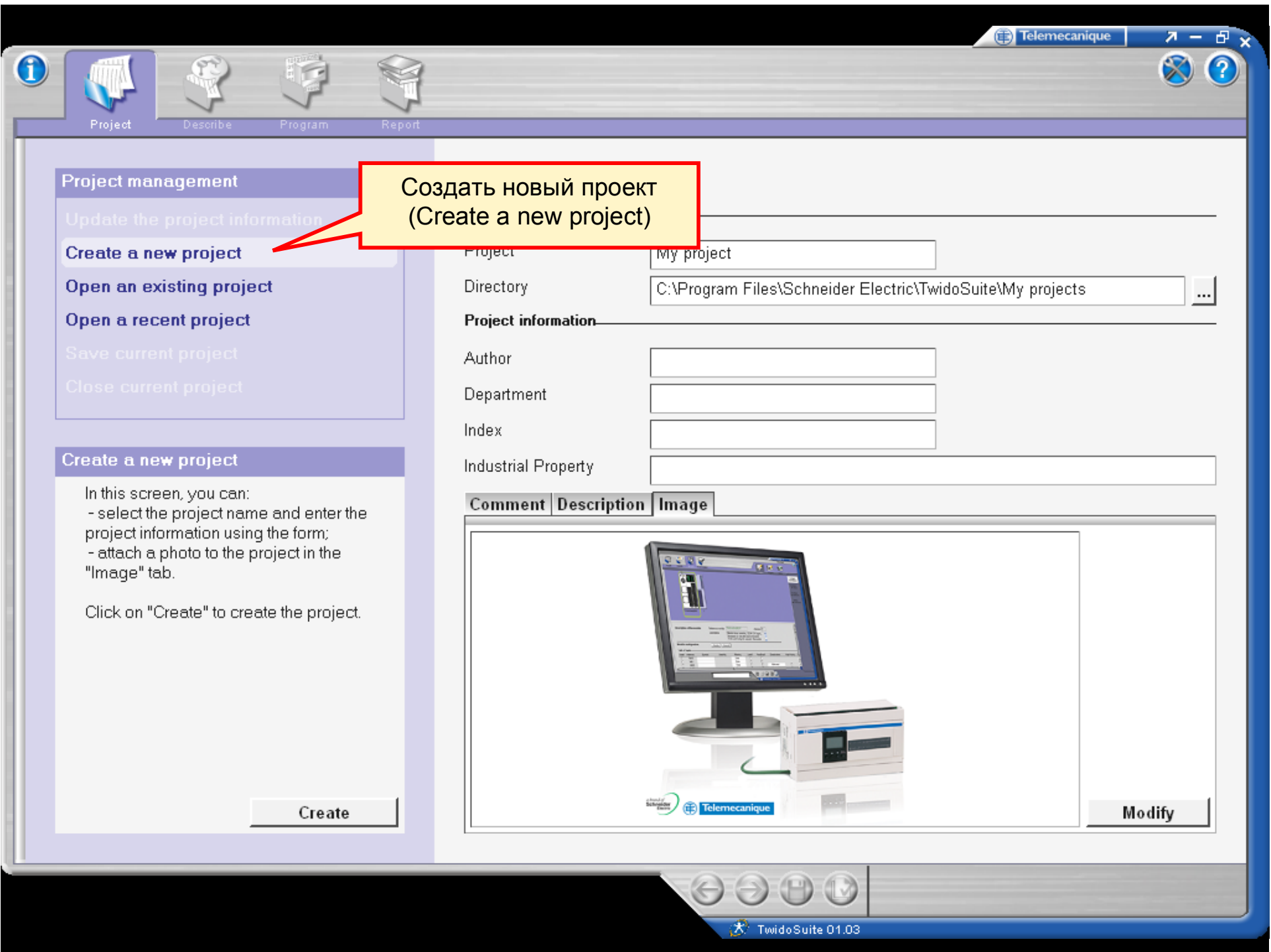
Что нового
(What's New)

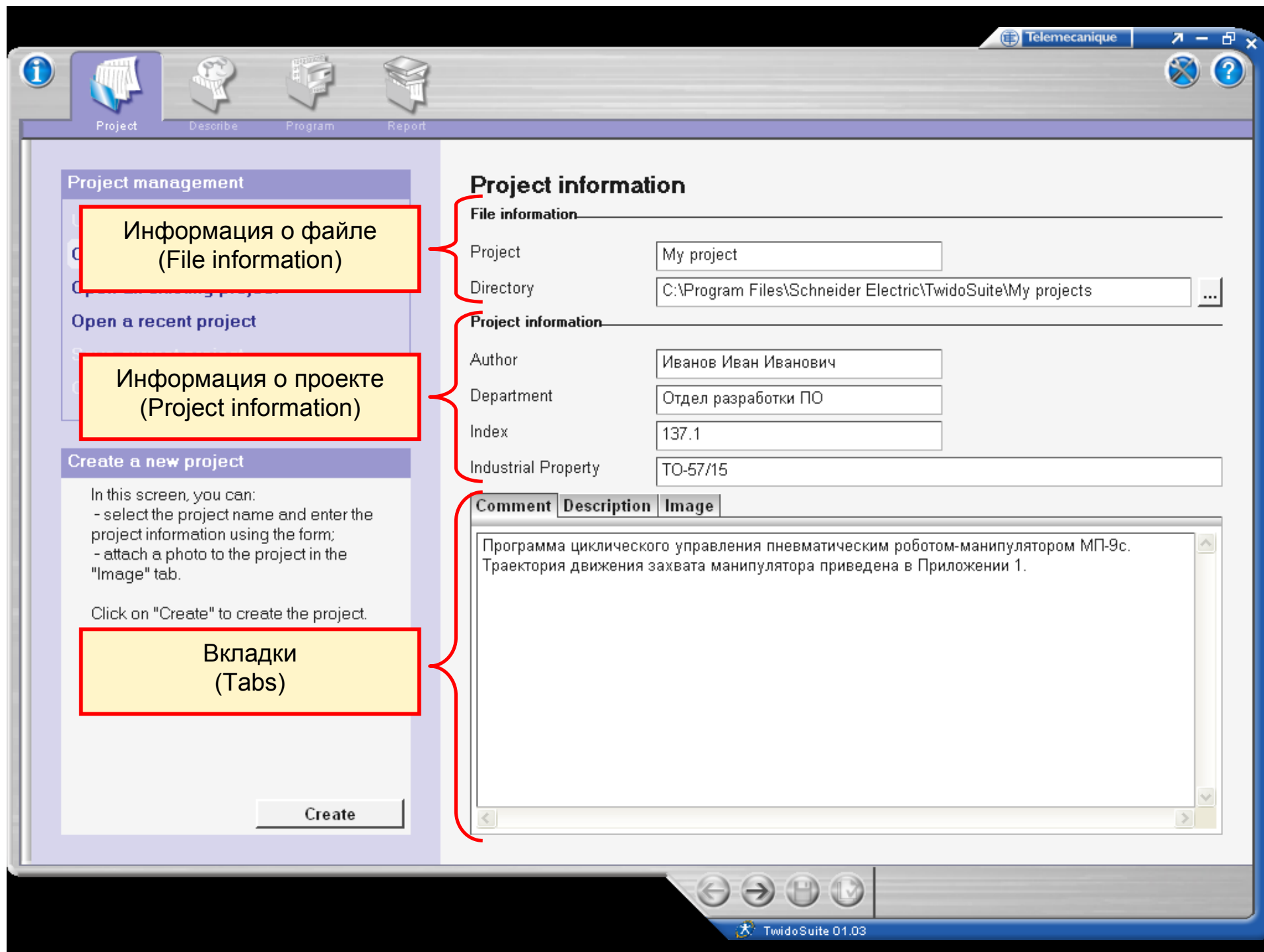


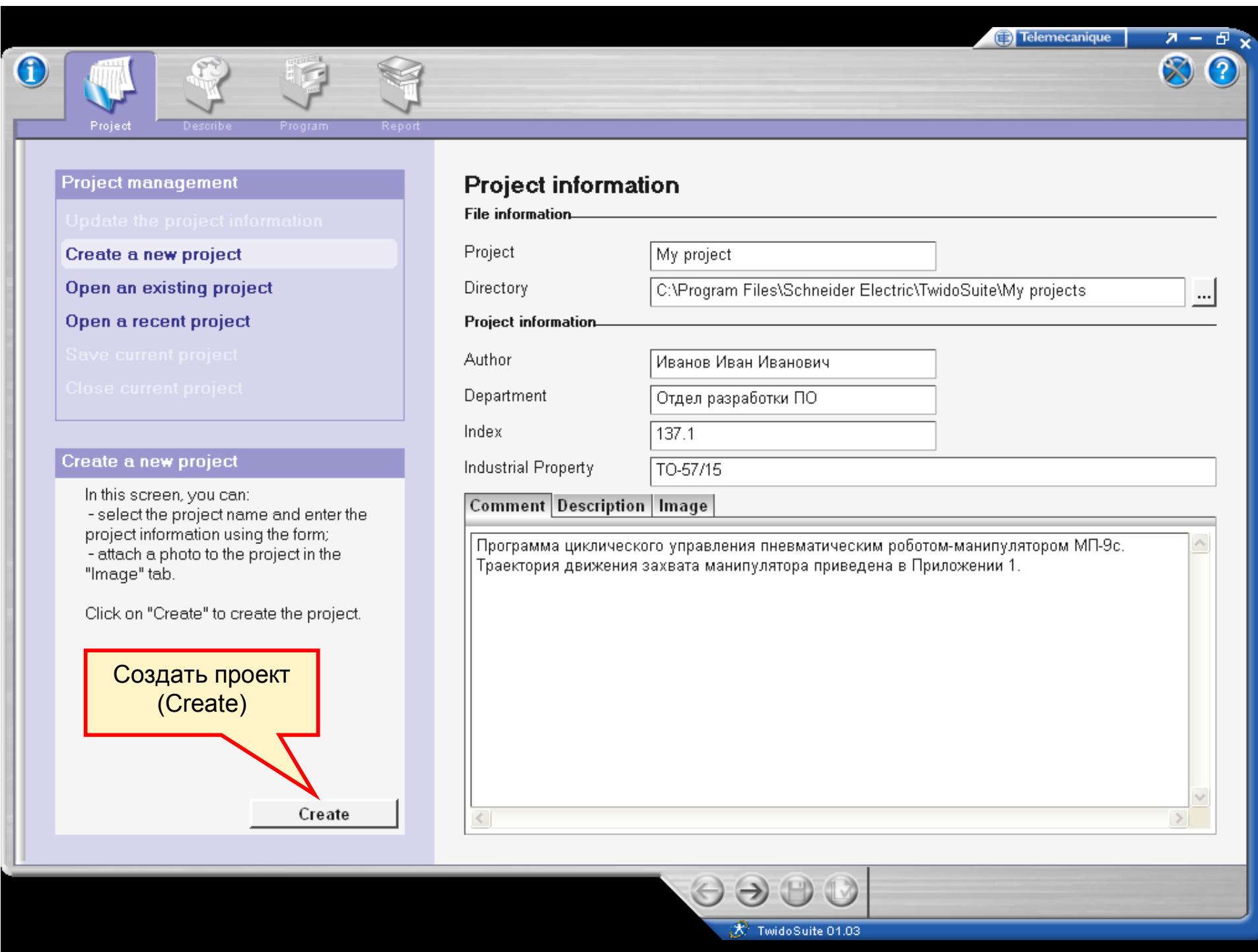
Язык интерфейса оболочки
(английский/французский.)

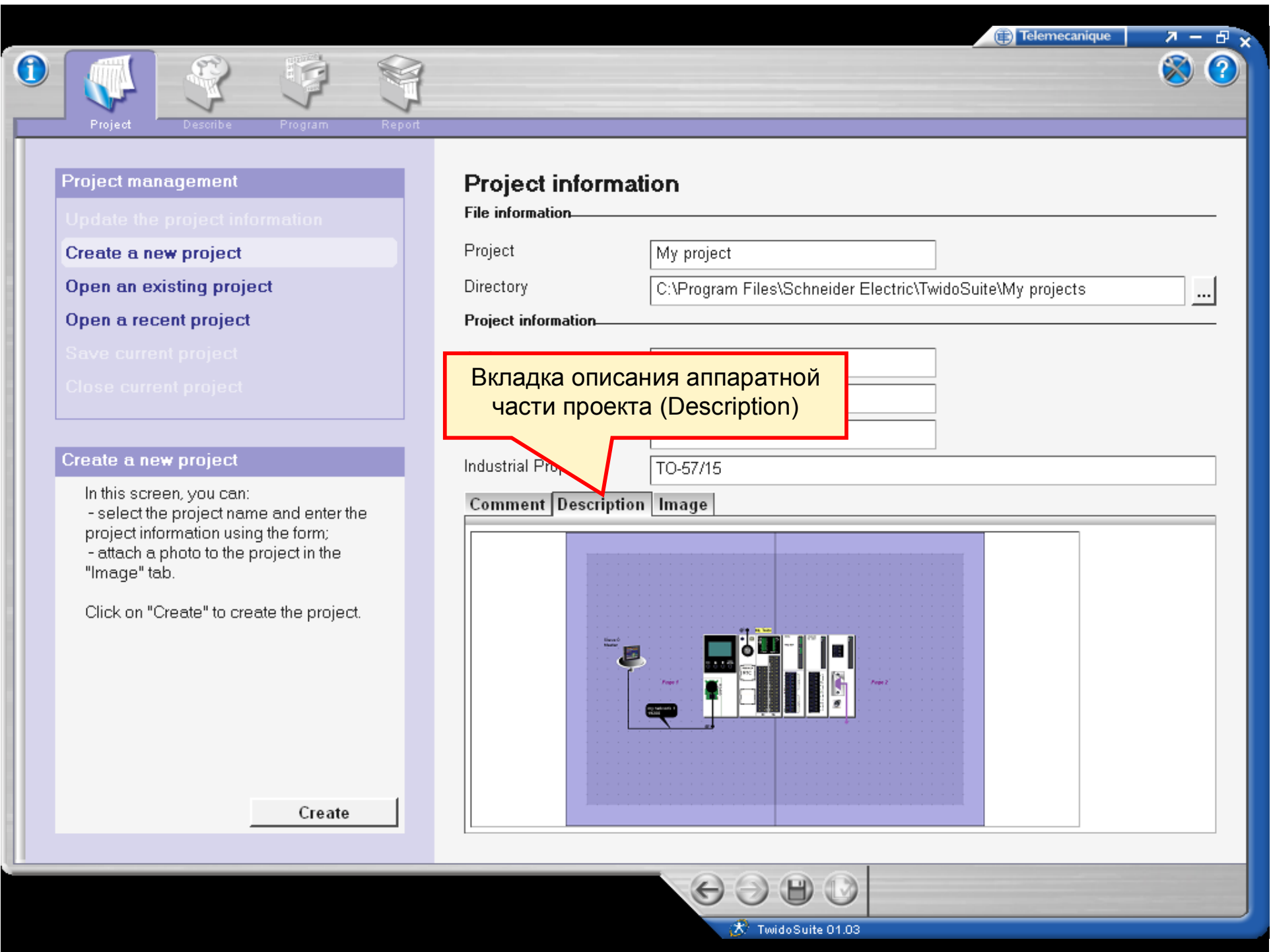


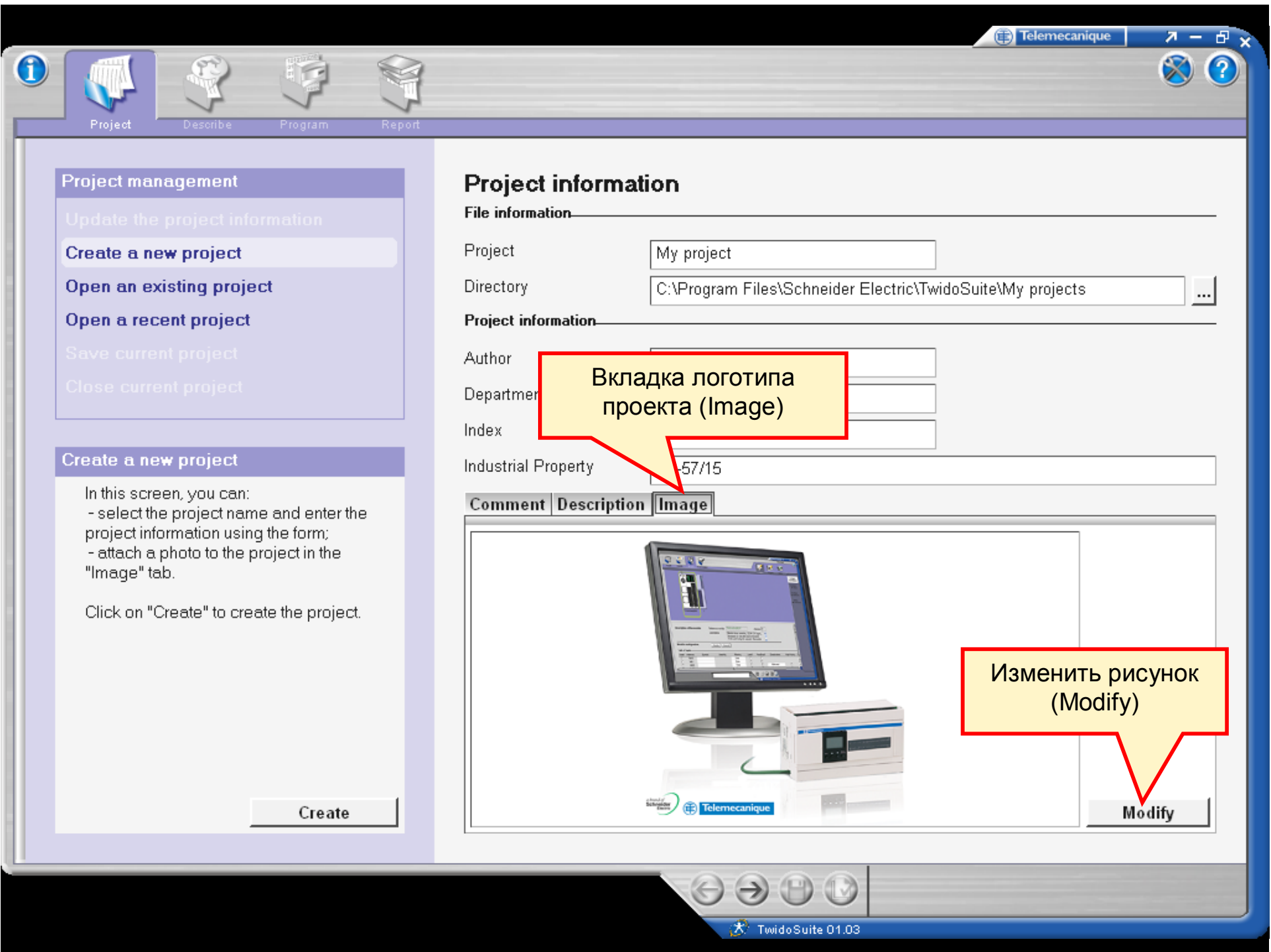


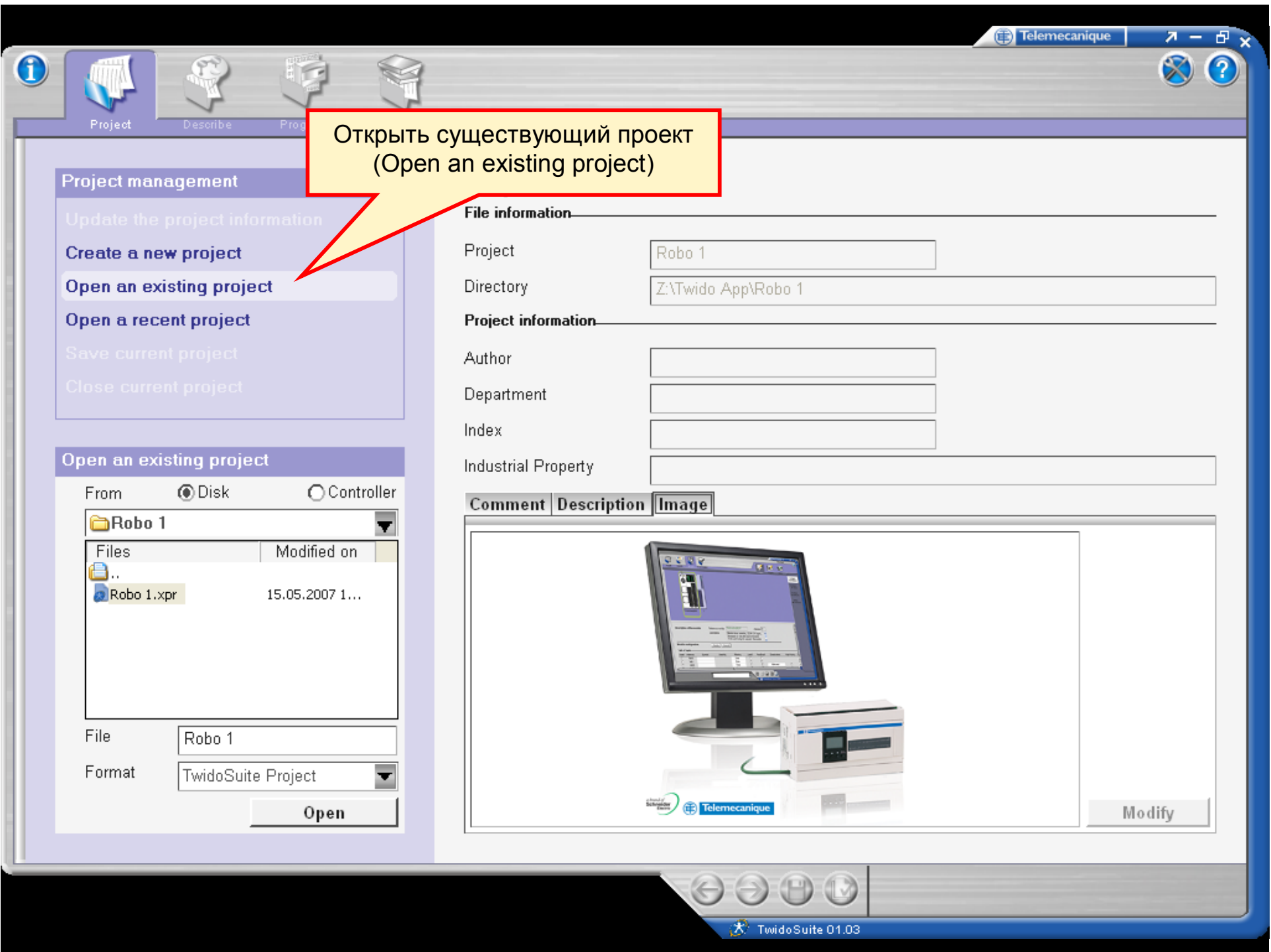


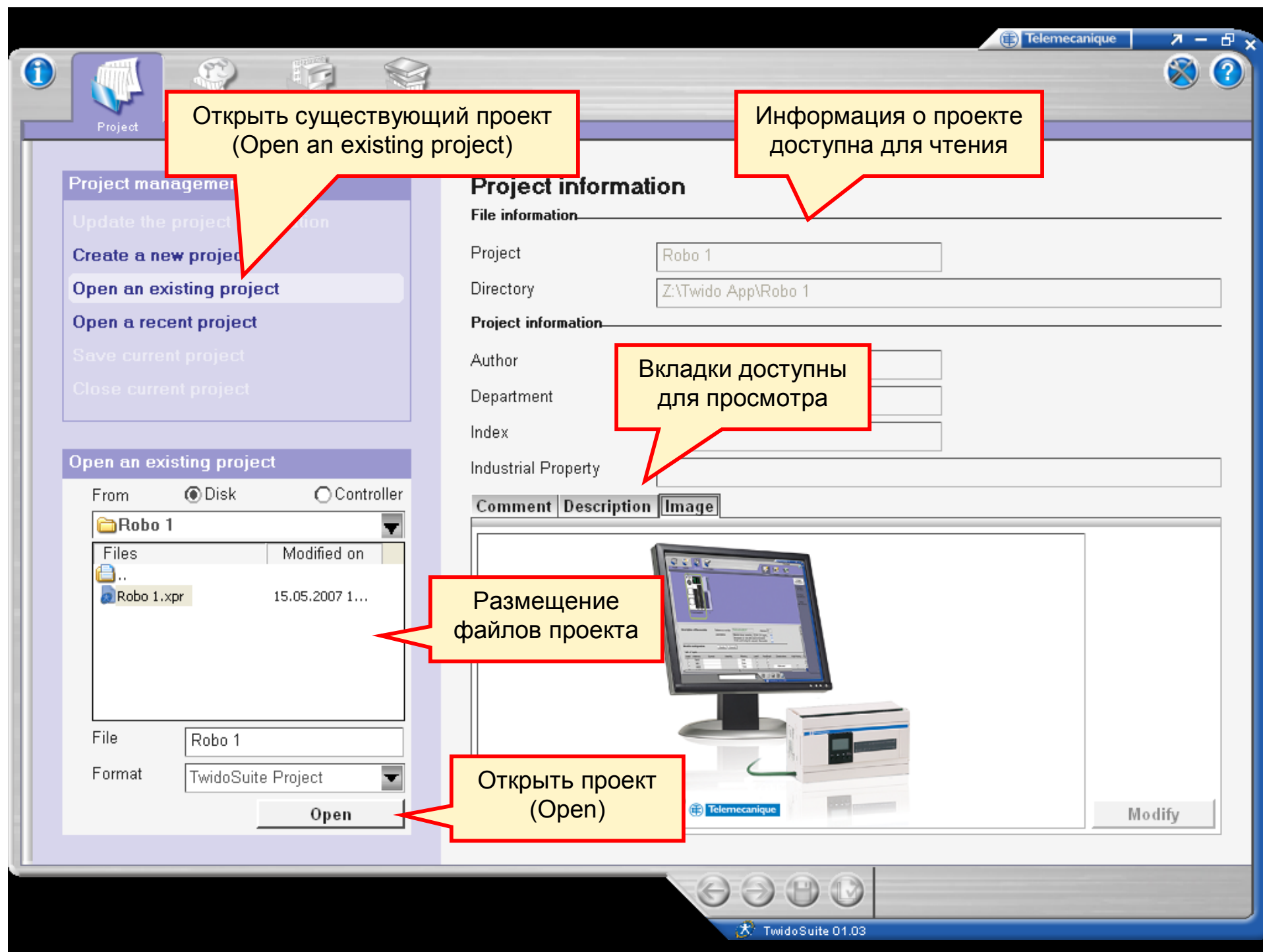


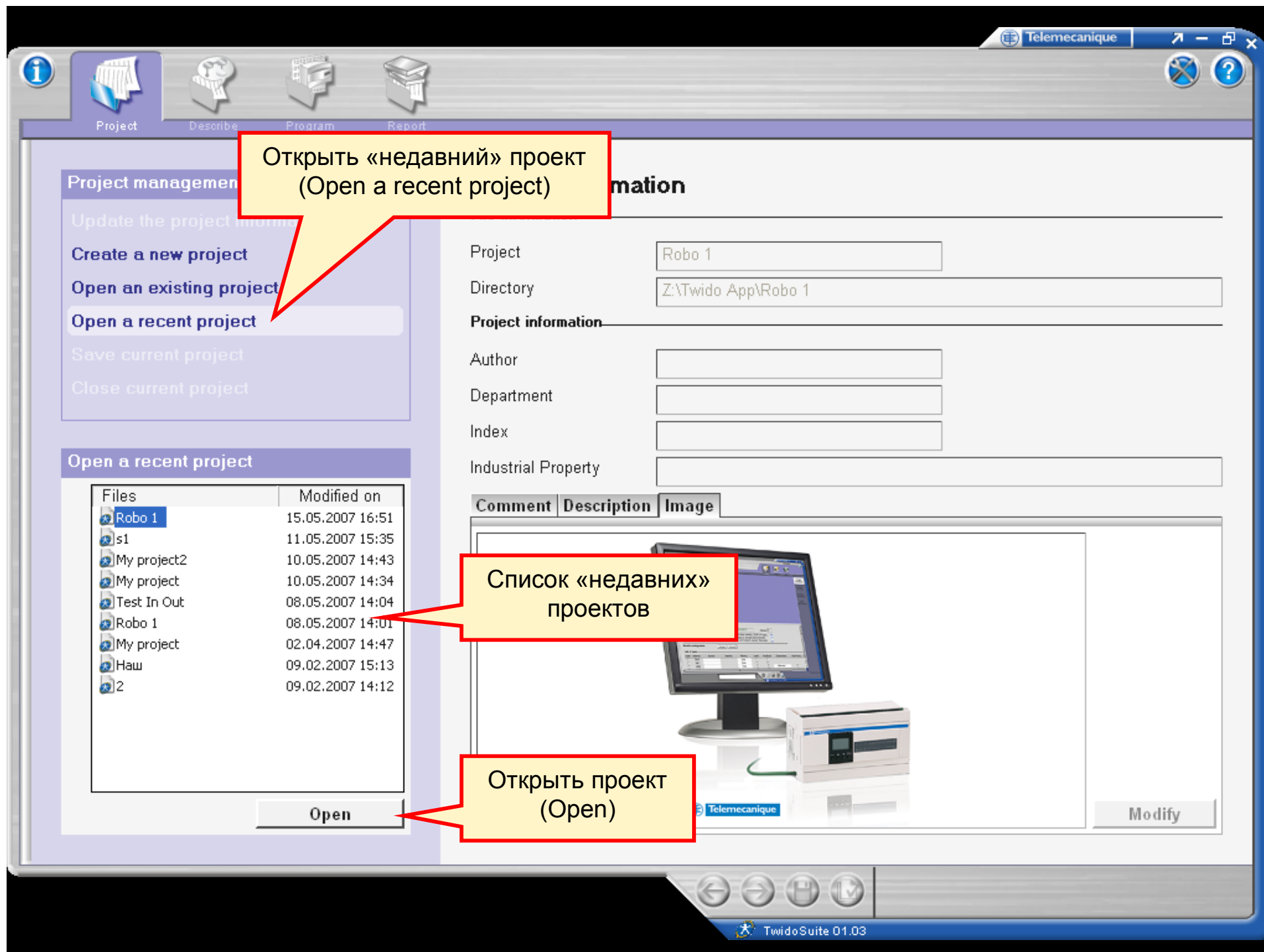


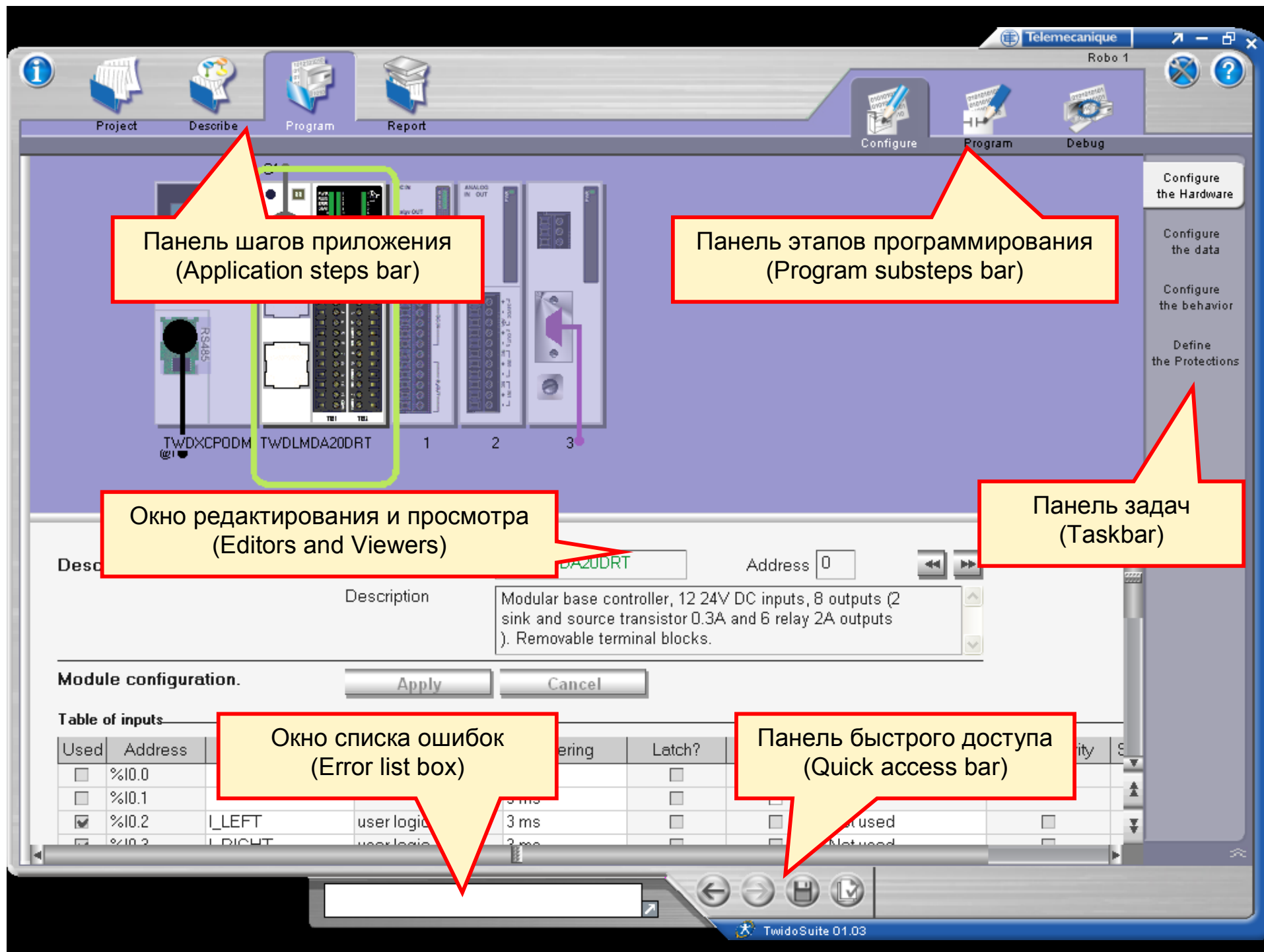


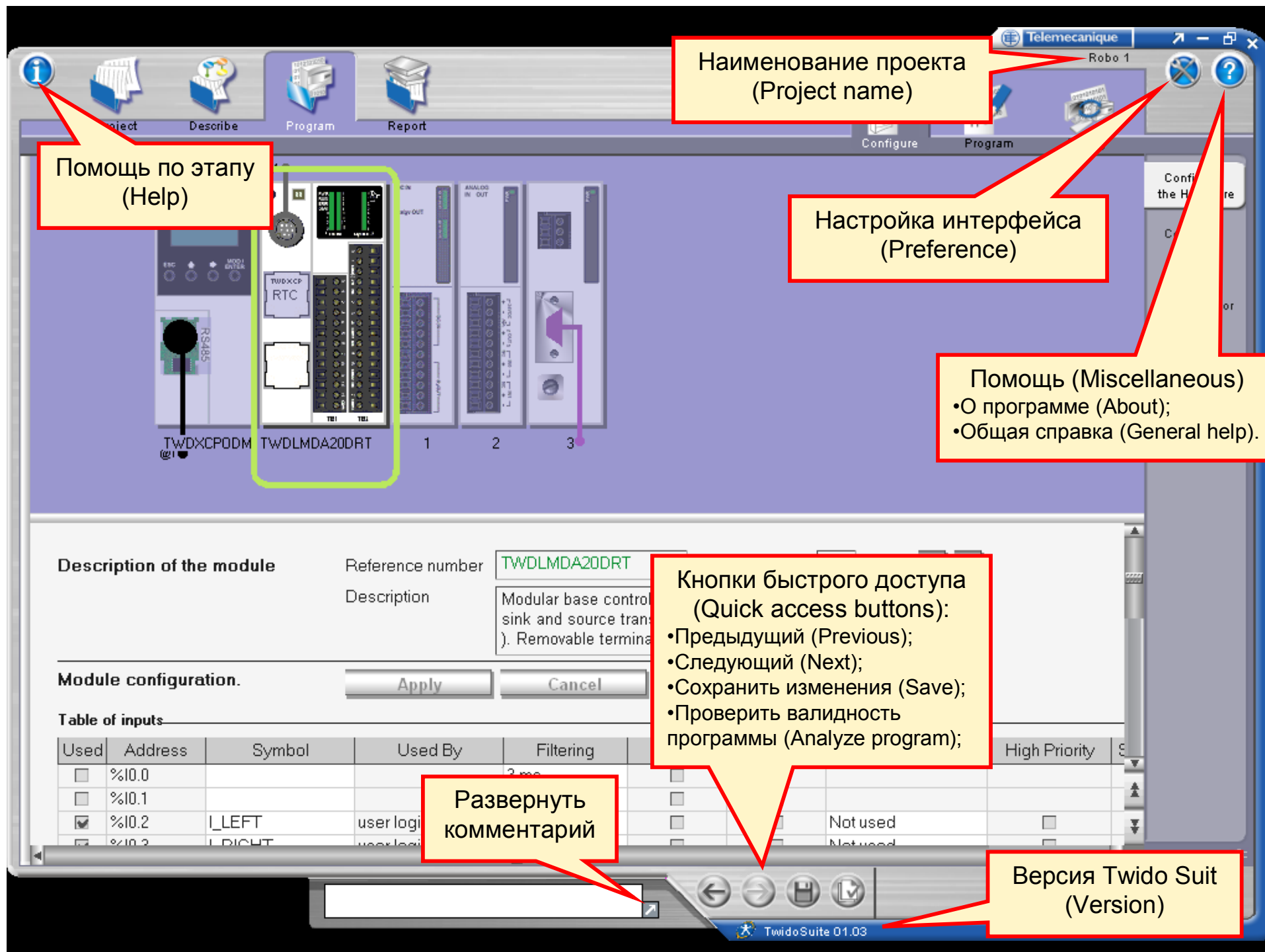




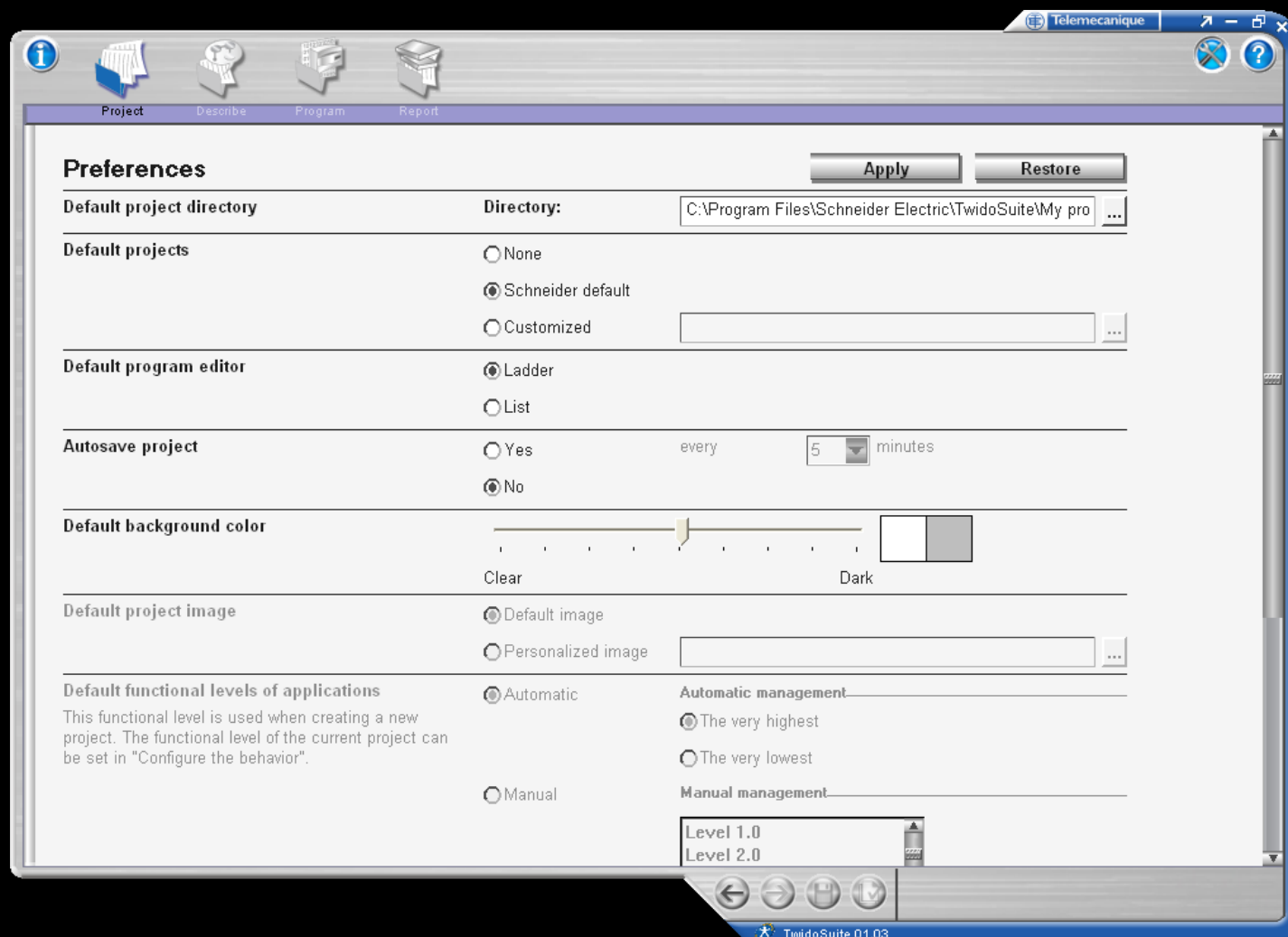




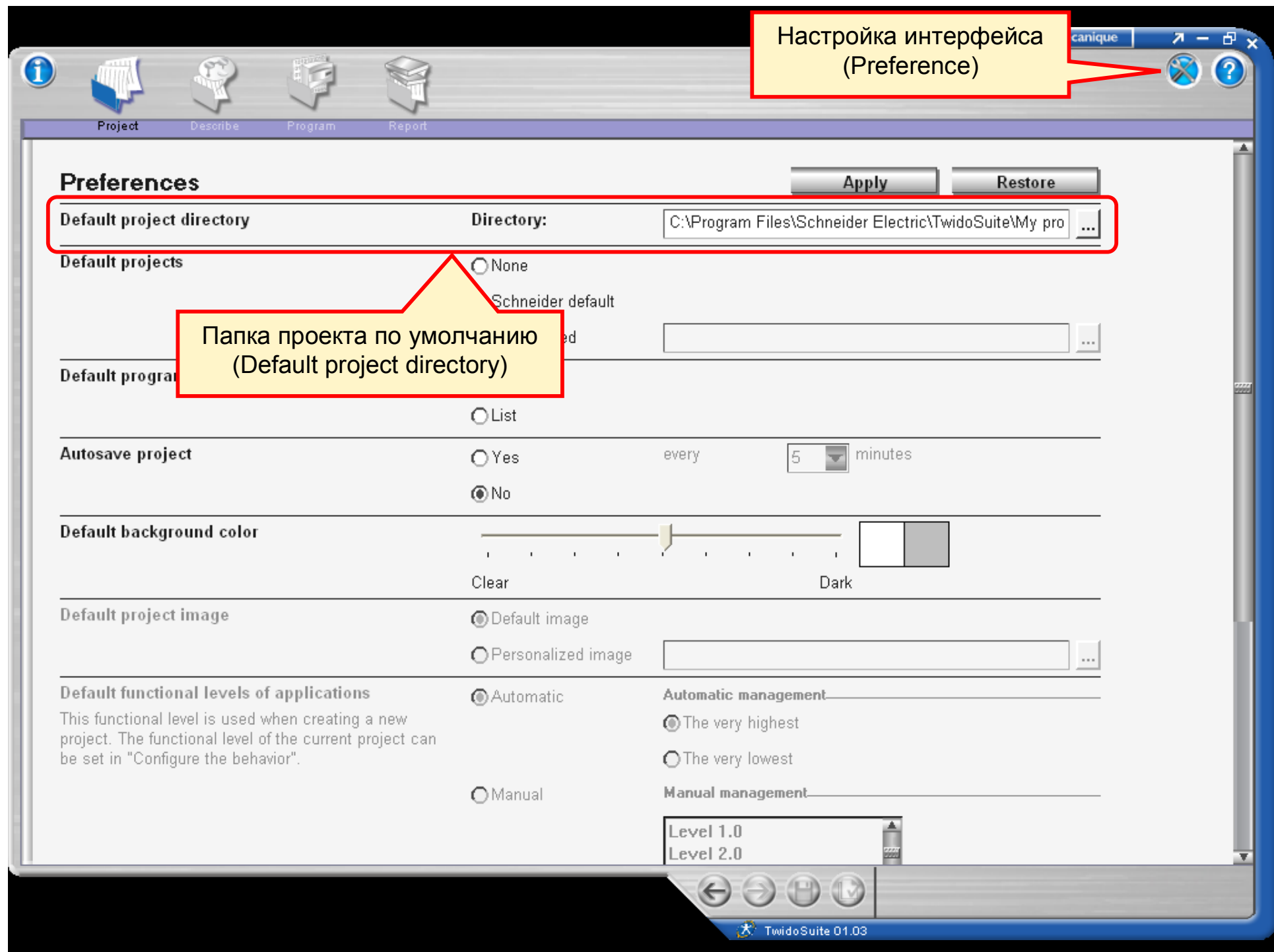




Настройка оболочки



Настройка интерфейса
(Preference)



Папка проекта по умолчанию
(Default project directory)

Настройка интерфейса
(Preference)

Preferences

Apply

Restore

Default project directory

Directory:

C:\Program Files\Schneider Electric\TwidoSuite\My pro ...

Default projects

☐ None

☒ Schneider default

☐ Customized

Default program editor

☒ Ladder

☐ List

Autosave project

Шаблон проекта по умолчанию
(Default projects):

- Запускать без шаблона (None);
- Базовый шаблон (Schneider default);
- Пользовательский шаблон (Customized).

every 5 minutes

Default background

Dark

Default project image

☒ Default image

☐ Personalized image

Default functional levels of applications

This functional level is used when creating a new project. The functional level of the current project can be set in "Configure the behavior".

☒ Automatic

☐ Manual

Automatic management

☒ The very highest

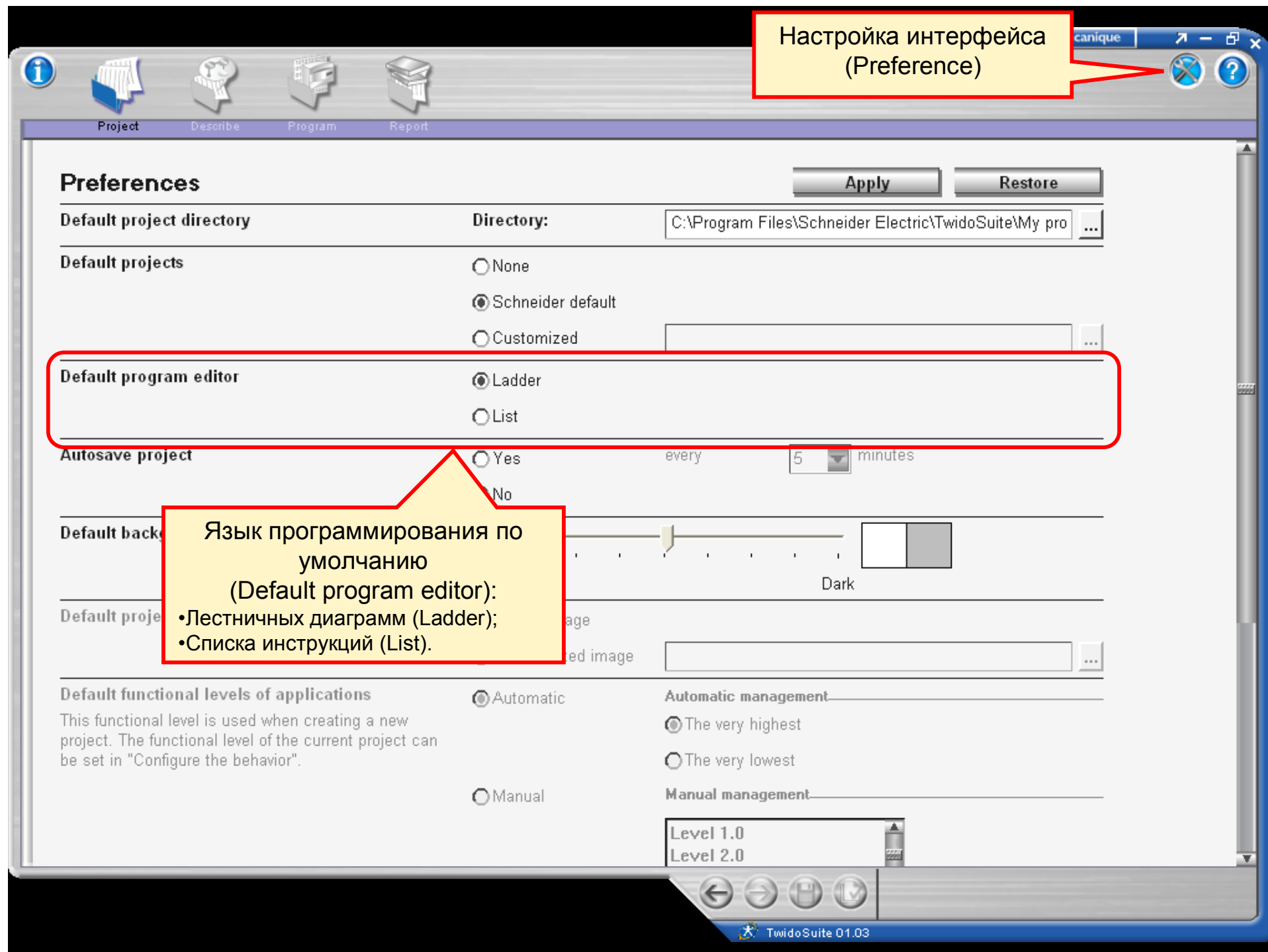
☐ The very lowest

Manual management

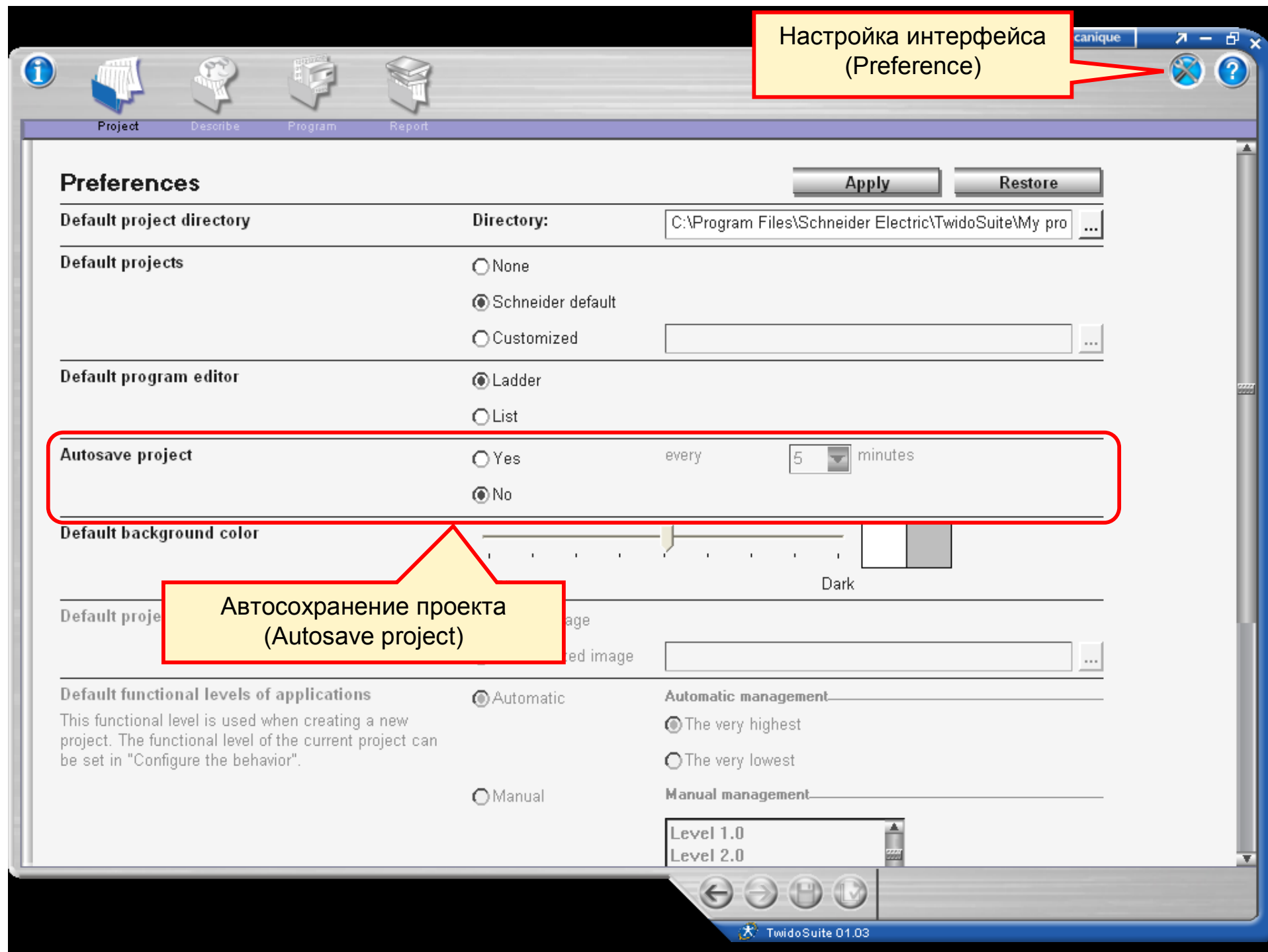
Level 1.0

Level 2.0

Настройка интерфейса
(Preference)

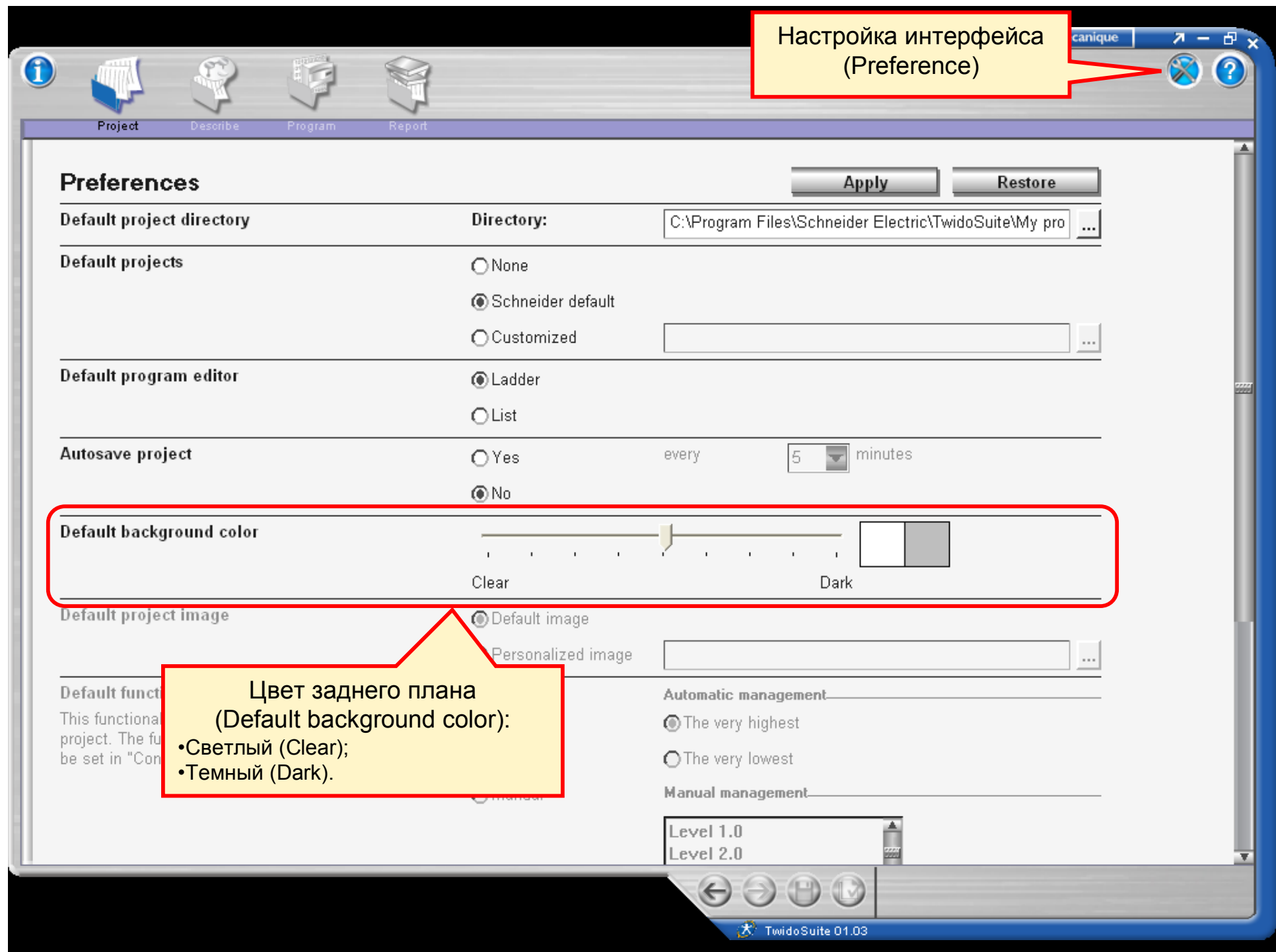


Настройка интерфейса
(Preference)



Автосохранение проекта
(Autosave project)

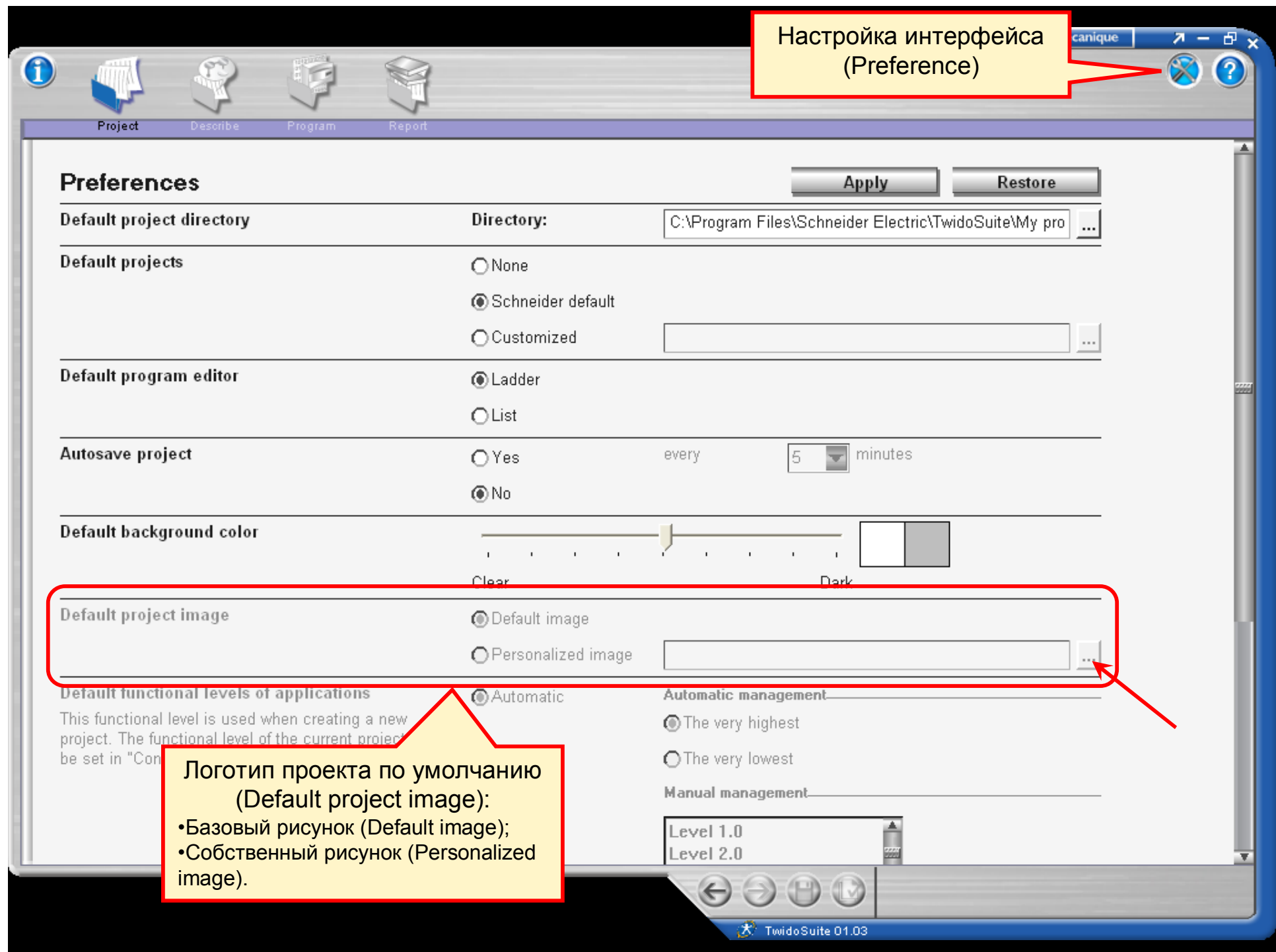
Настройка интерфейса
(Preference)



Цвет заднего плана
(Default background color):

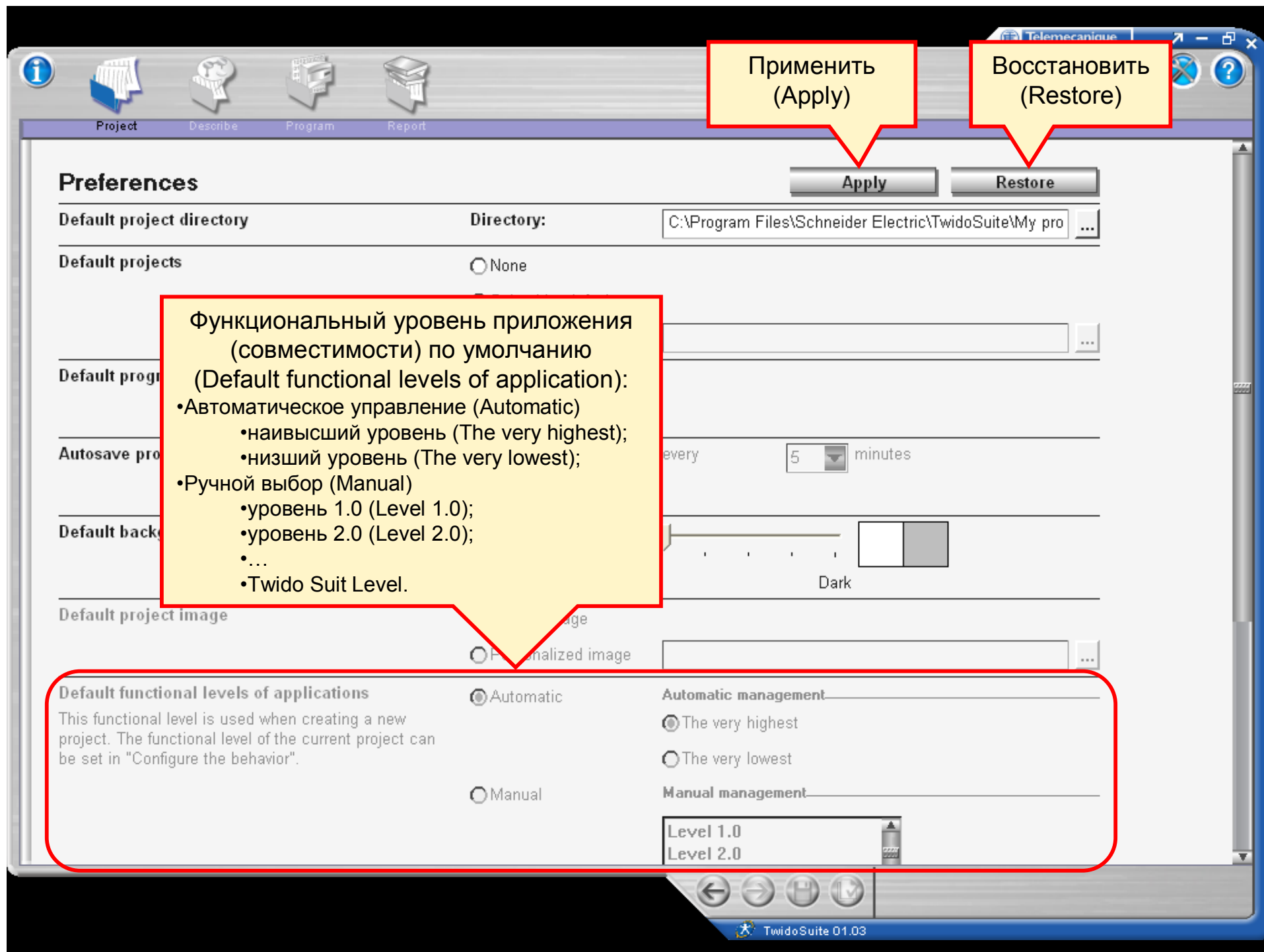
- Светлый (Clear);
- Темный (Dark).

Настройка интерфейса
(Preference)

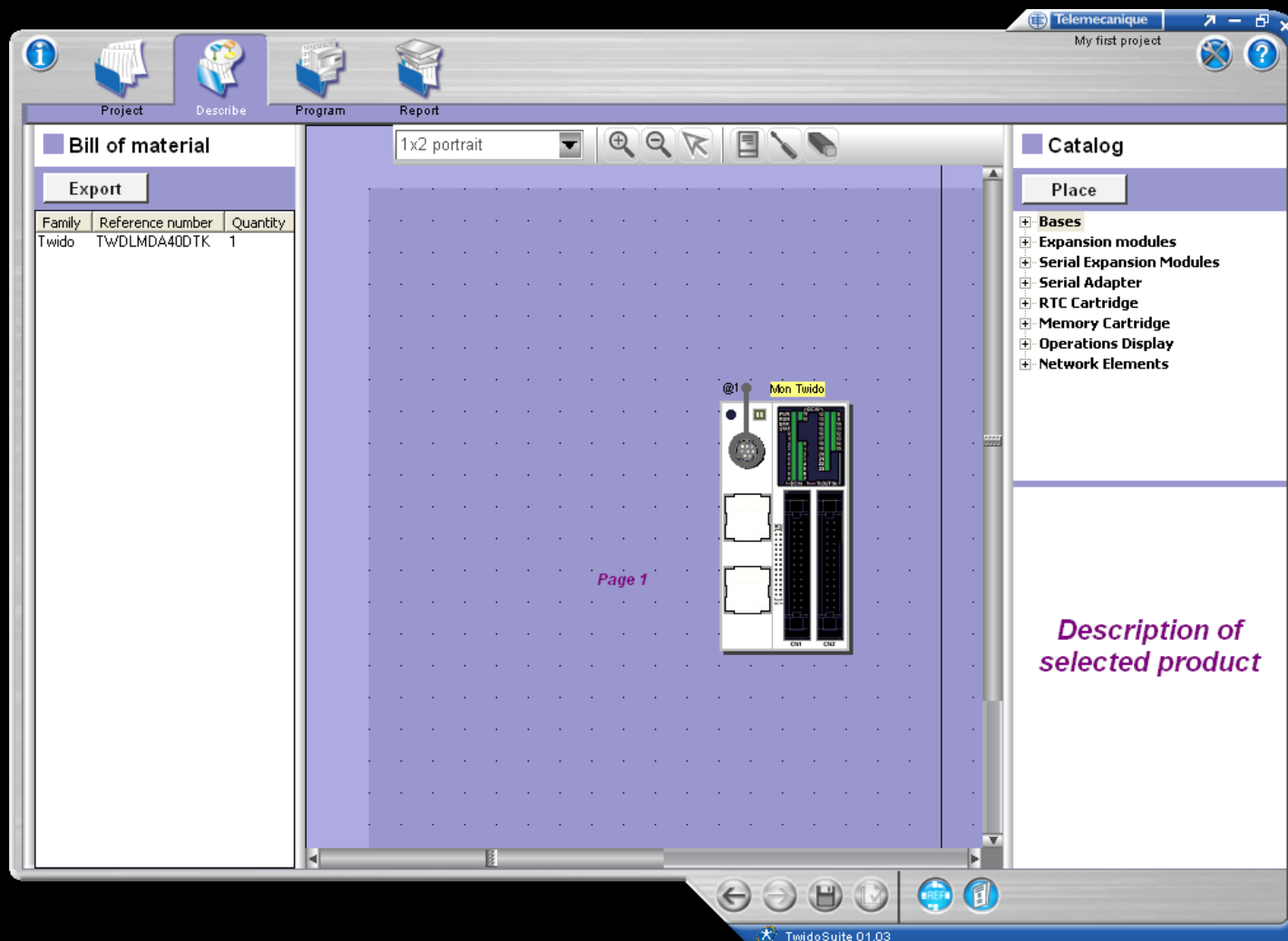


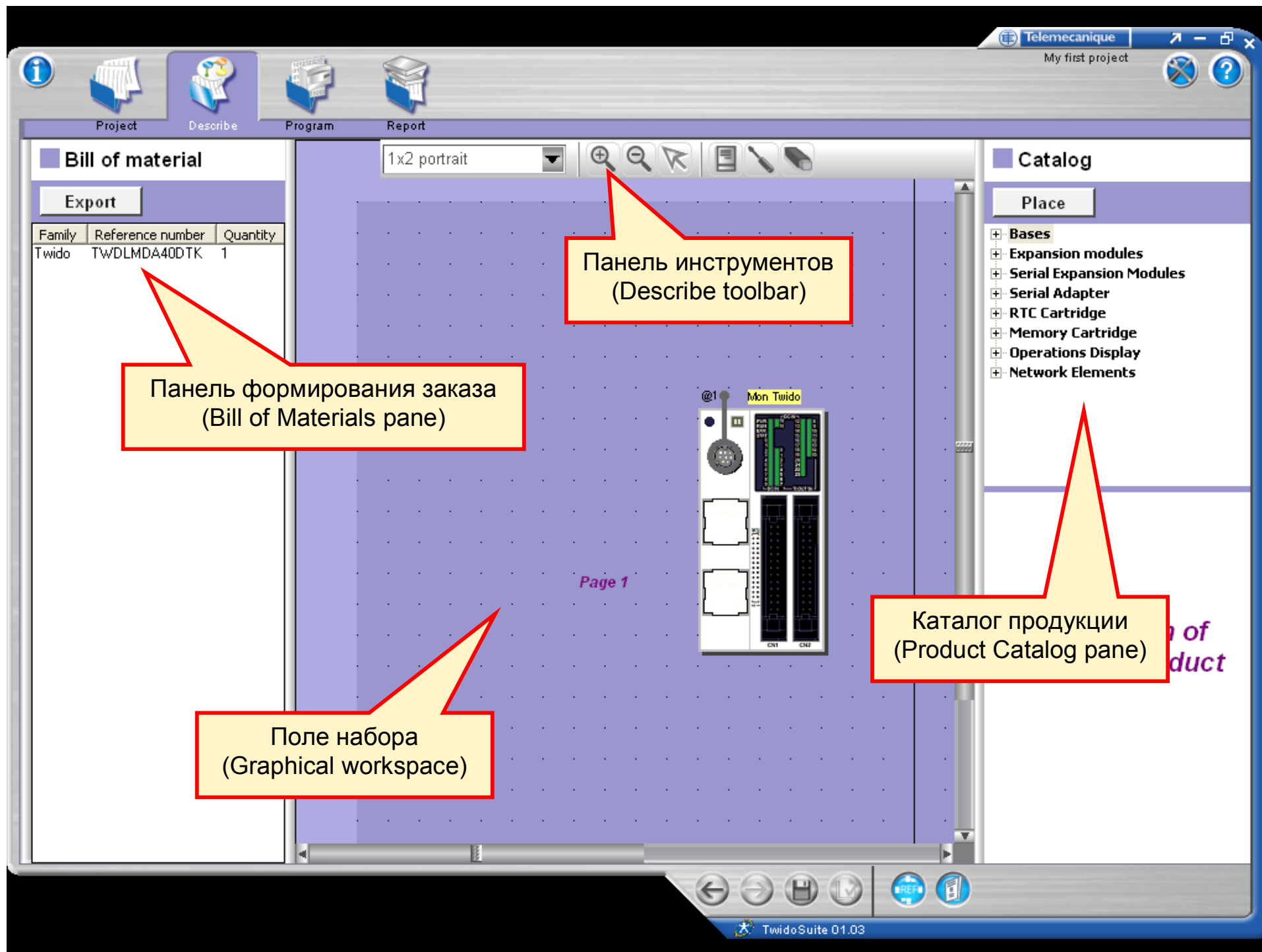
Логотип проекта по умолчанию
(Default project image):

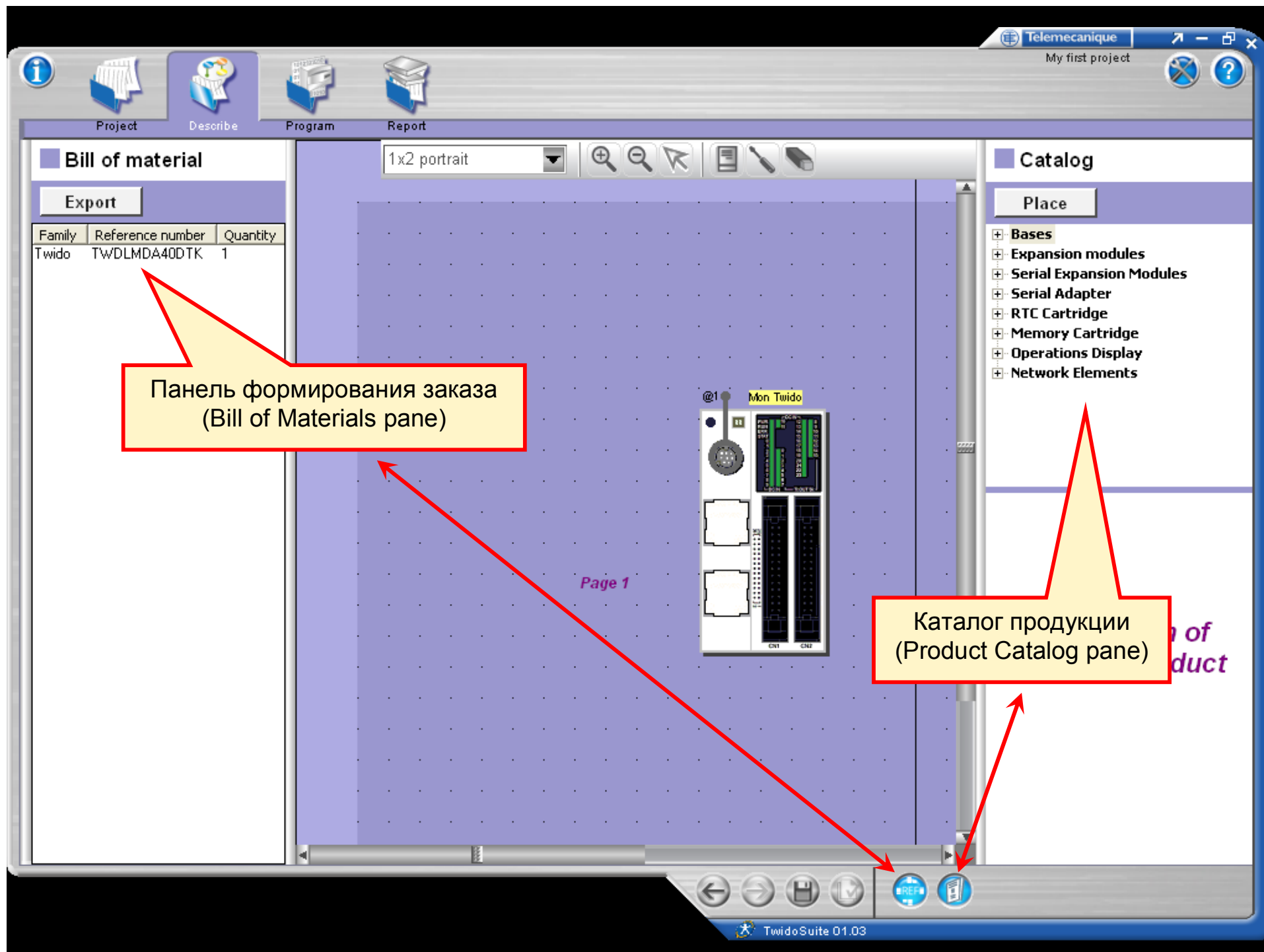
- Базовый рисунок (Default image);
- Собственный рисунок (Personalized image).

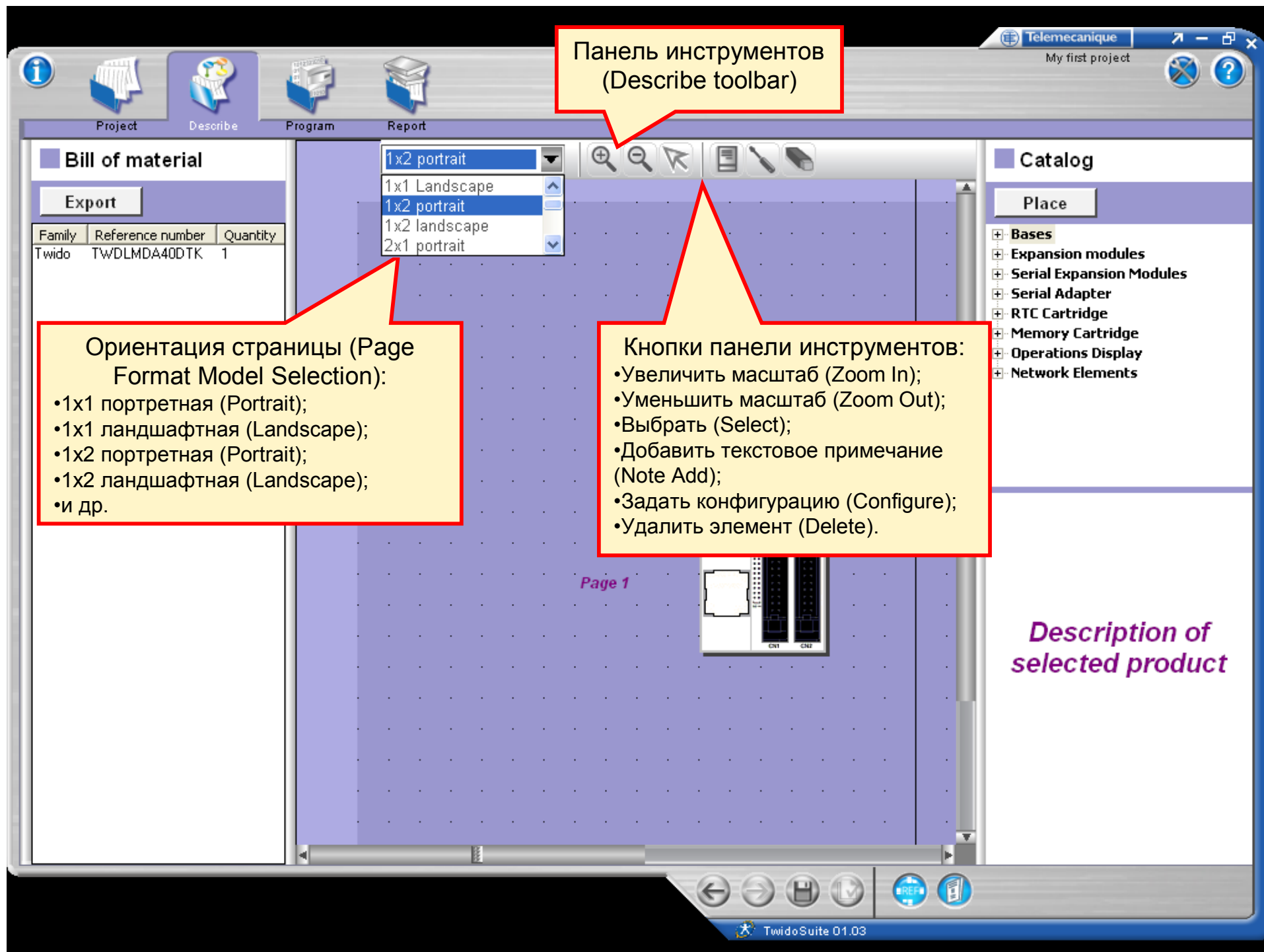


Описание проекта









Панель формирования заказа
(Bill of Materials pane)

Export

Экспорт в файл
(Export)

Поля панели формирования заказа:

- Семейство (Family);
- Каталожный номер (Reference number);
- Количество (Quantity).

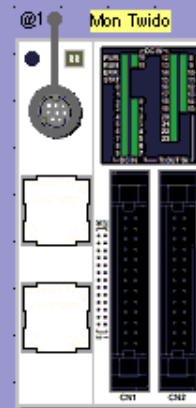
Family	Reference number	Quantity
Twido	TWDLMDA40DTK	1

1x2 portrait

Catalog

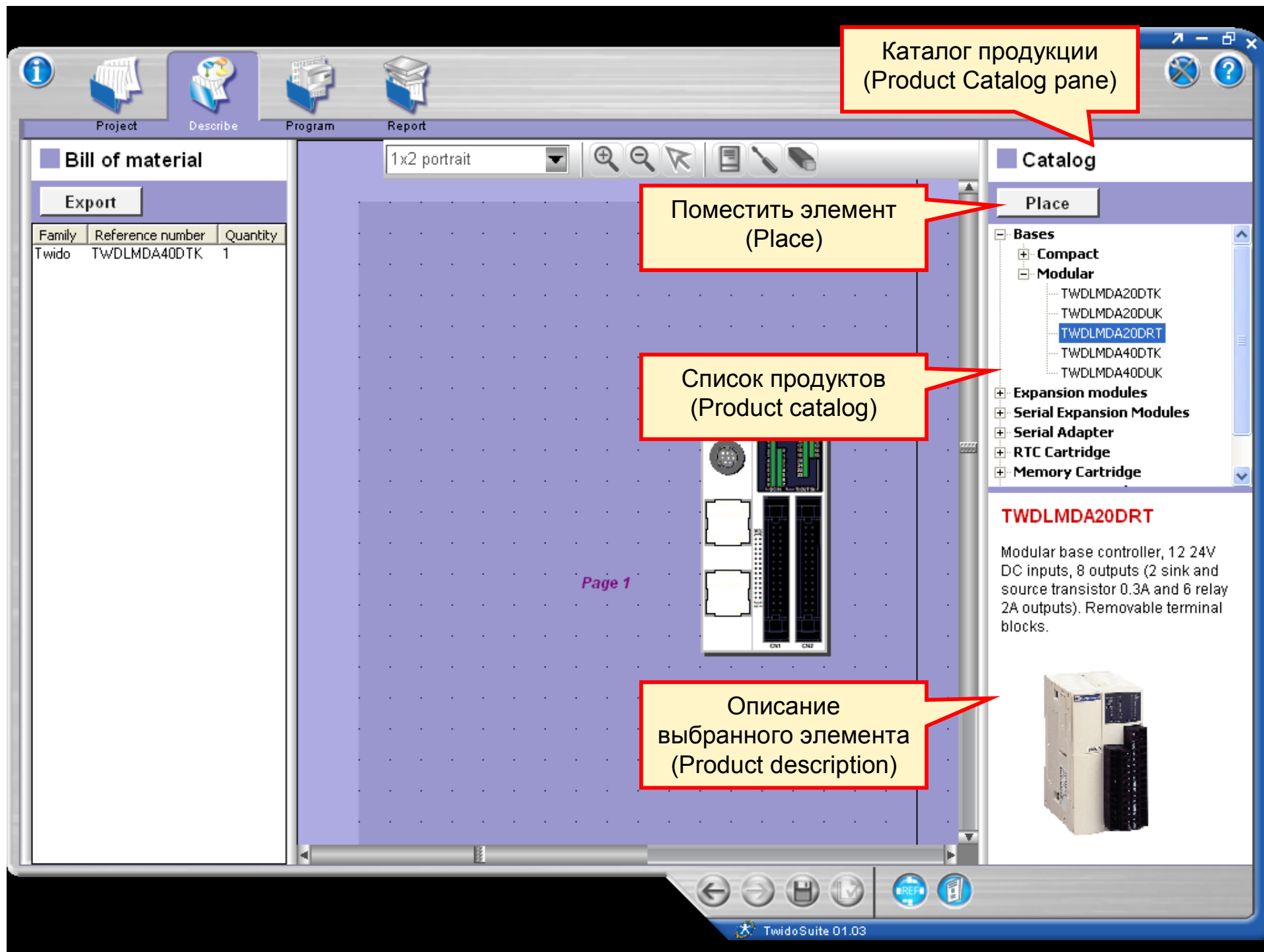
Place

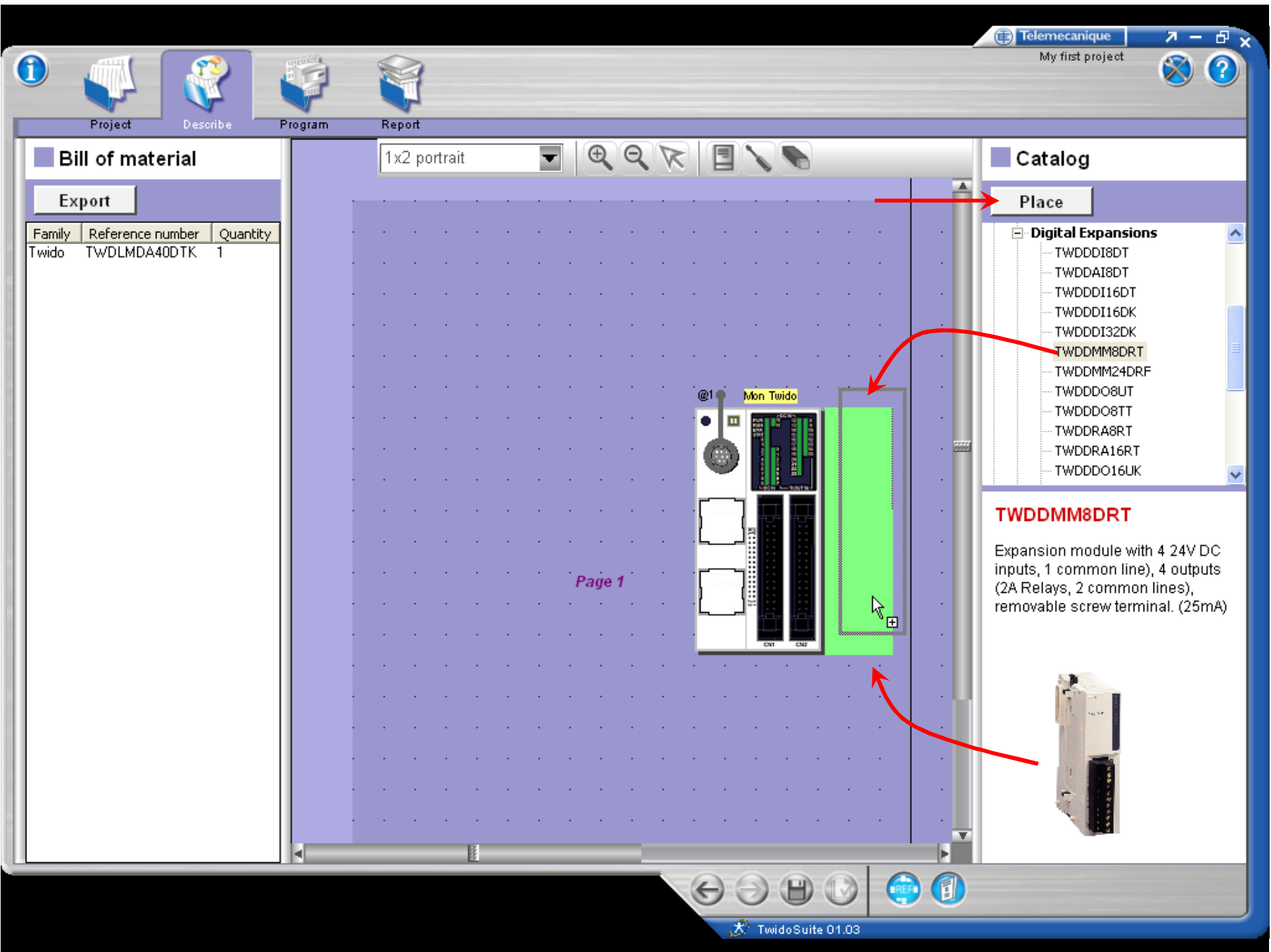
- + Bases
- + Expansion modules
- + Serial Expansion Modules
- + Serial Adapter
- + RTC Cartridge
- + Memory Cartridge
- + Operations Display
- + Network Elements

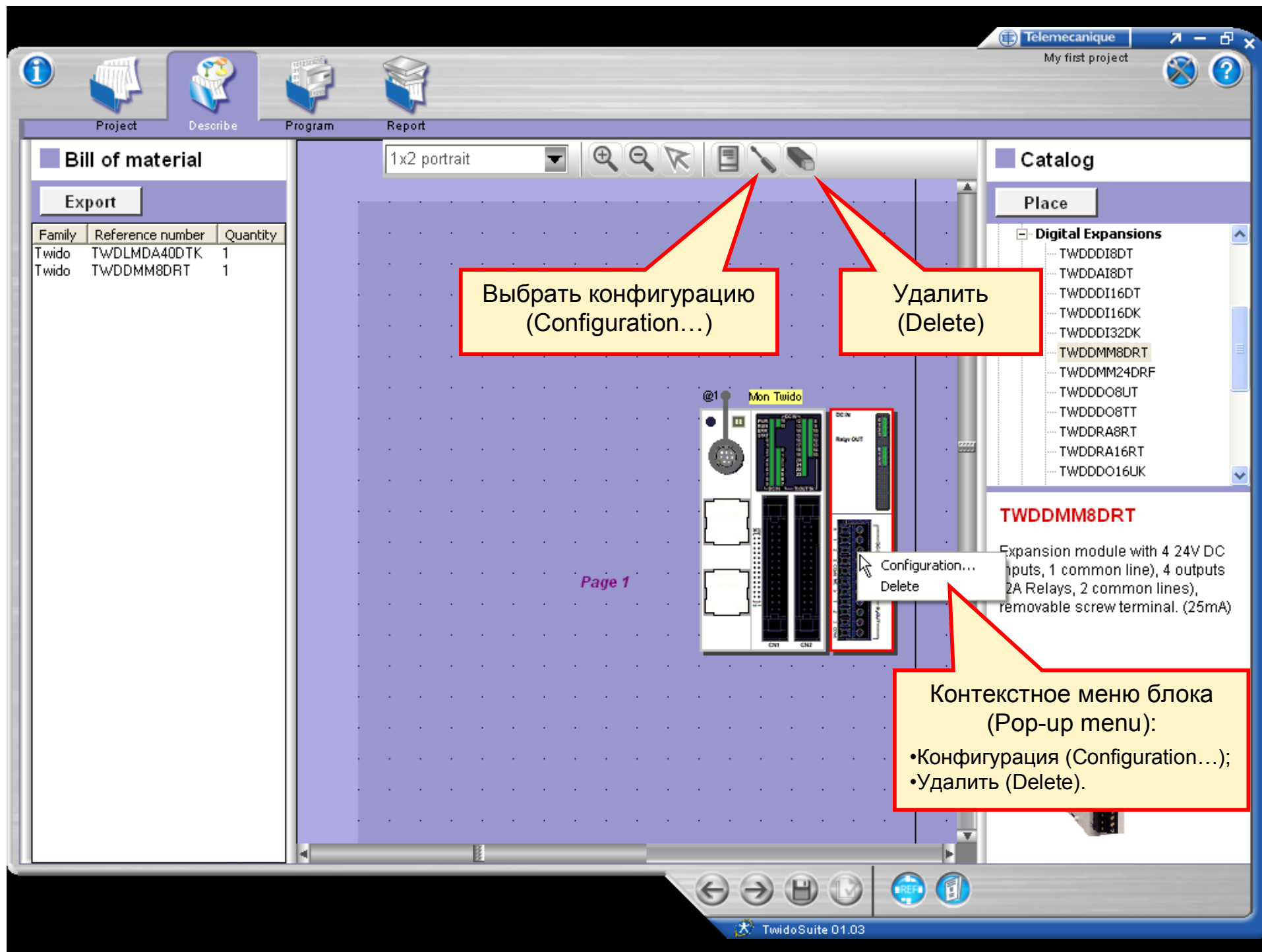


Page 1

*Description of
selected product*







Добавить комментарий
(Note Add)

Telemecanique
My first project

Project Describe Program Report

Bill of material

Export

Family	Reference number	Quantity
Twido	TWDLMDA40DTK	1
Twido	TWDDMM8DRT	1

1x2 portrait

Базовый модуль

Mon Twido

Page 1

Catalog

Place

Bases


- Compact
- Modular
 - TWDLMDA20DTK
 - TWDLMDA20DUK
 - TWDLMDA20DRT
 - TWDLMDA40DTK
 - TWDLMDA40DUK

Expansion modules

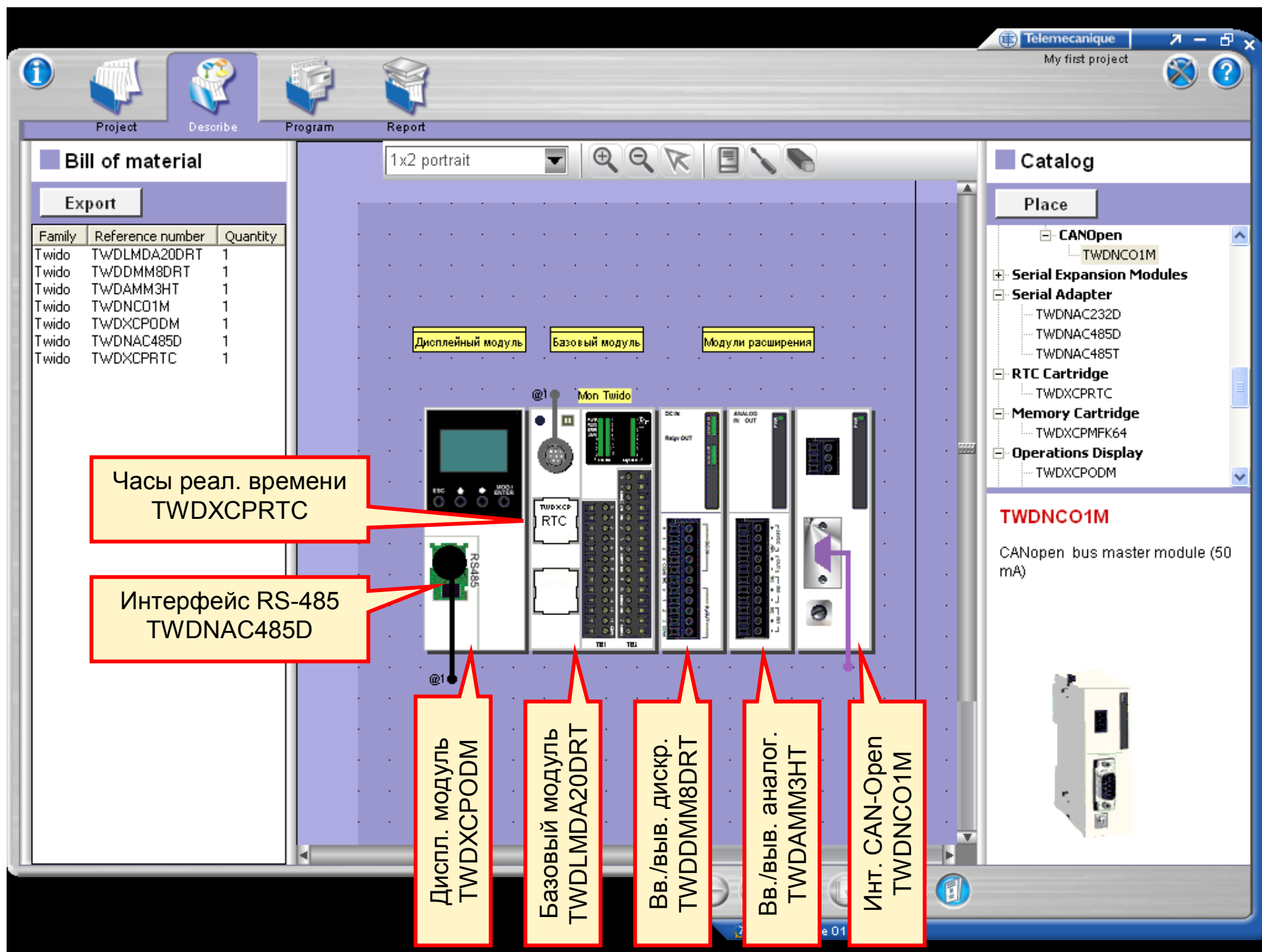
- Digital Expansions
 - TWDDDI8DT
 - TWDDAI8DT
 - TWDDDI16DT

TWDDMM8DRT

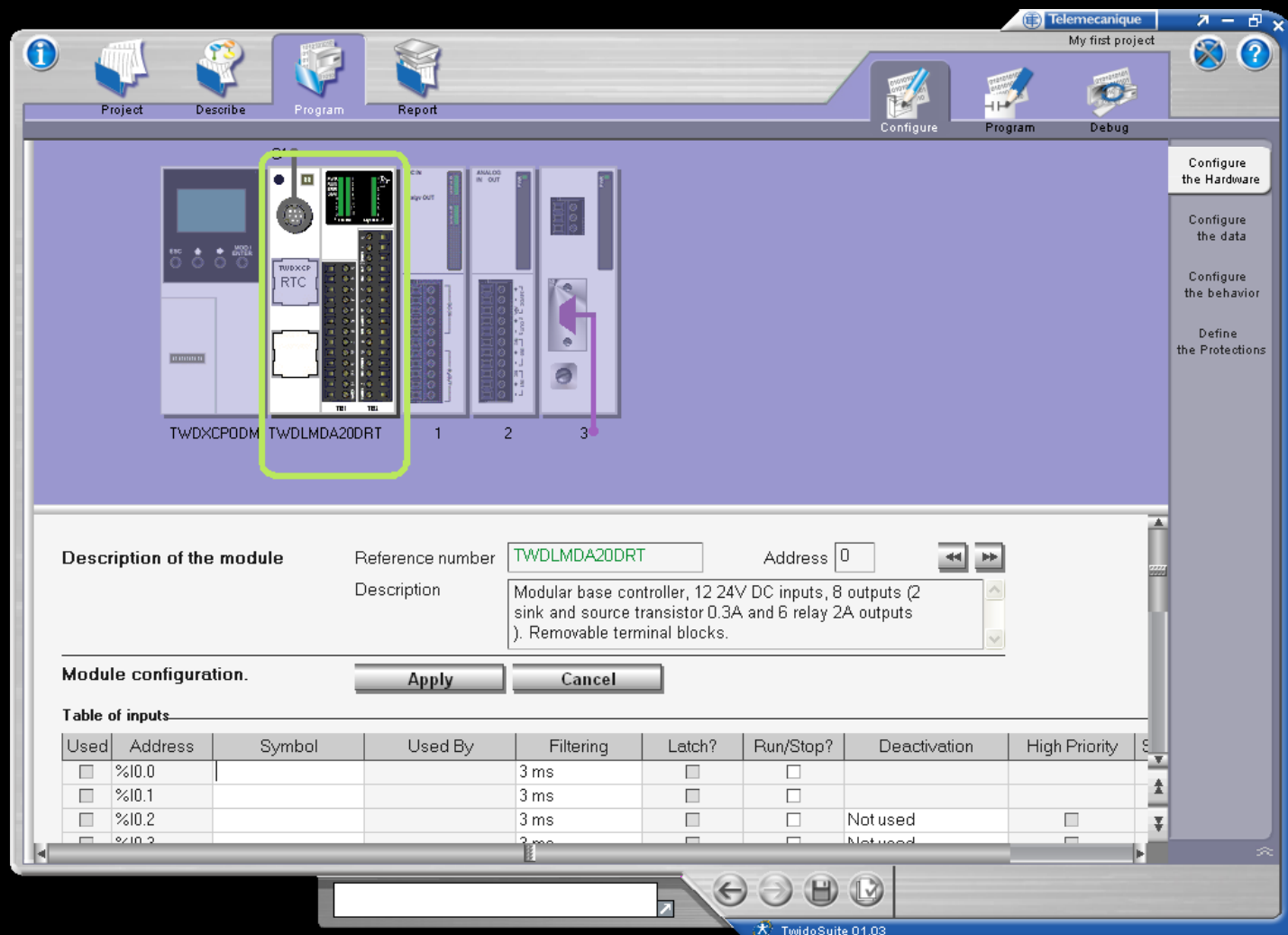
Expansion module with 4 24V DC inputs, 1 common line, 4 outputs (2A Relays, 2 common lines), removable screw terminal. (25mA)

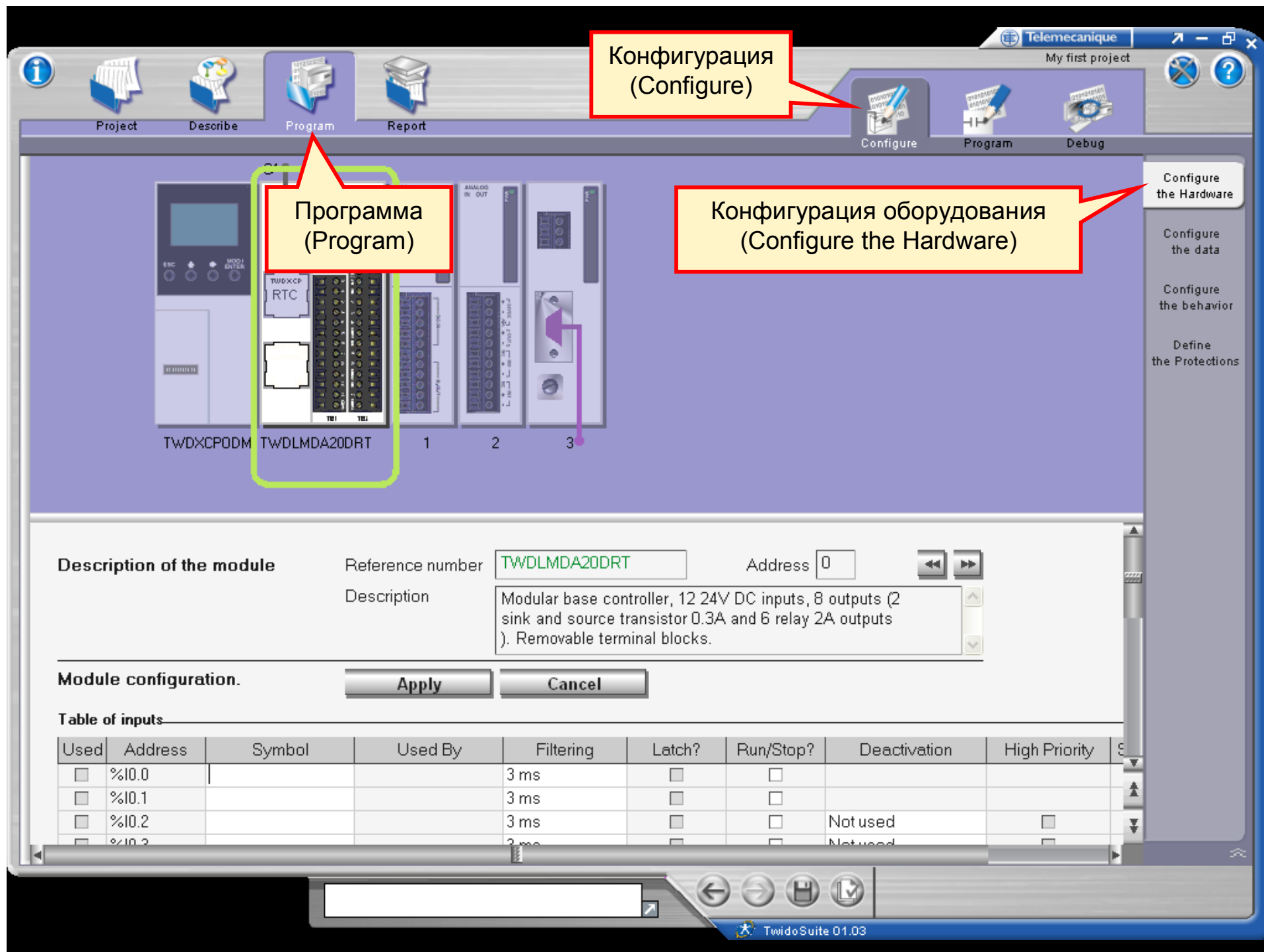


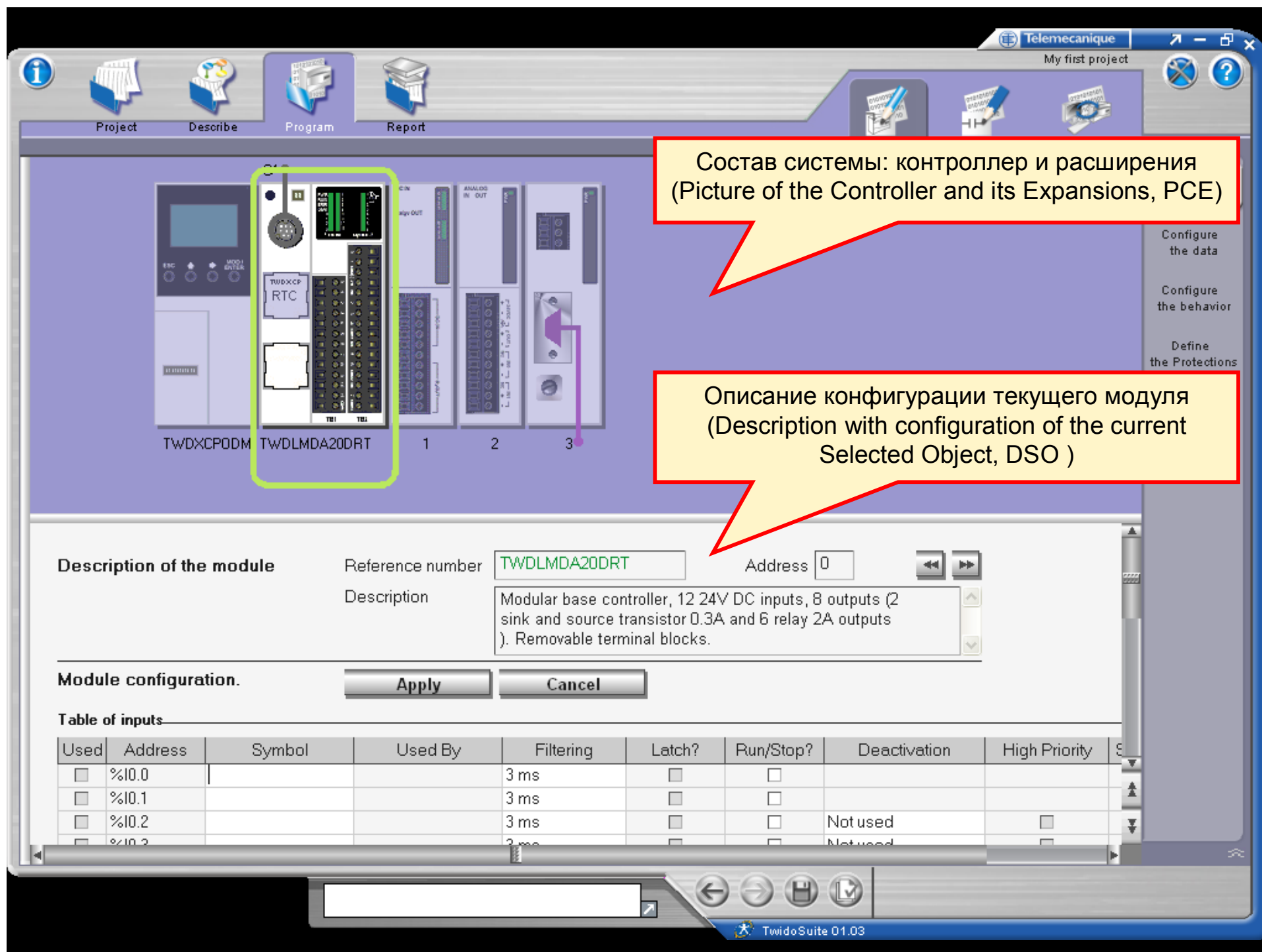
TwidoSuite 01.03



Конфигурирование оборудования







Telemecanique
My first project

Project Describe am Report

Configure Program Debug

Configure the Hardware
Configure the data
Configure the behavior
Define the Protections

Текущий модуль (Current block)

Модуль, указанный курсором манипулятора «мышь»

Наименование модуля (Reference number)

Адрес модуля (Address)

TWDXCP0DM TWDLMDA20DRT

1

3

TWDA3M3HT
Address : 2

Reference number TWDLMDA20DRT Address 0

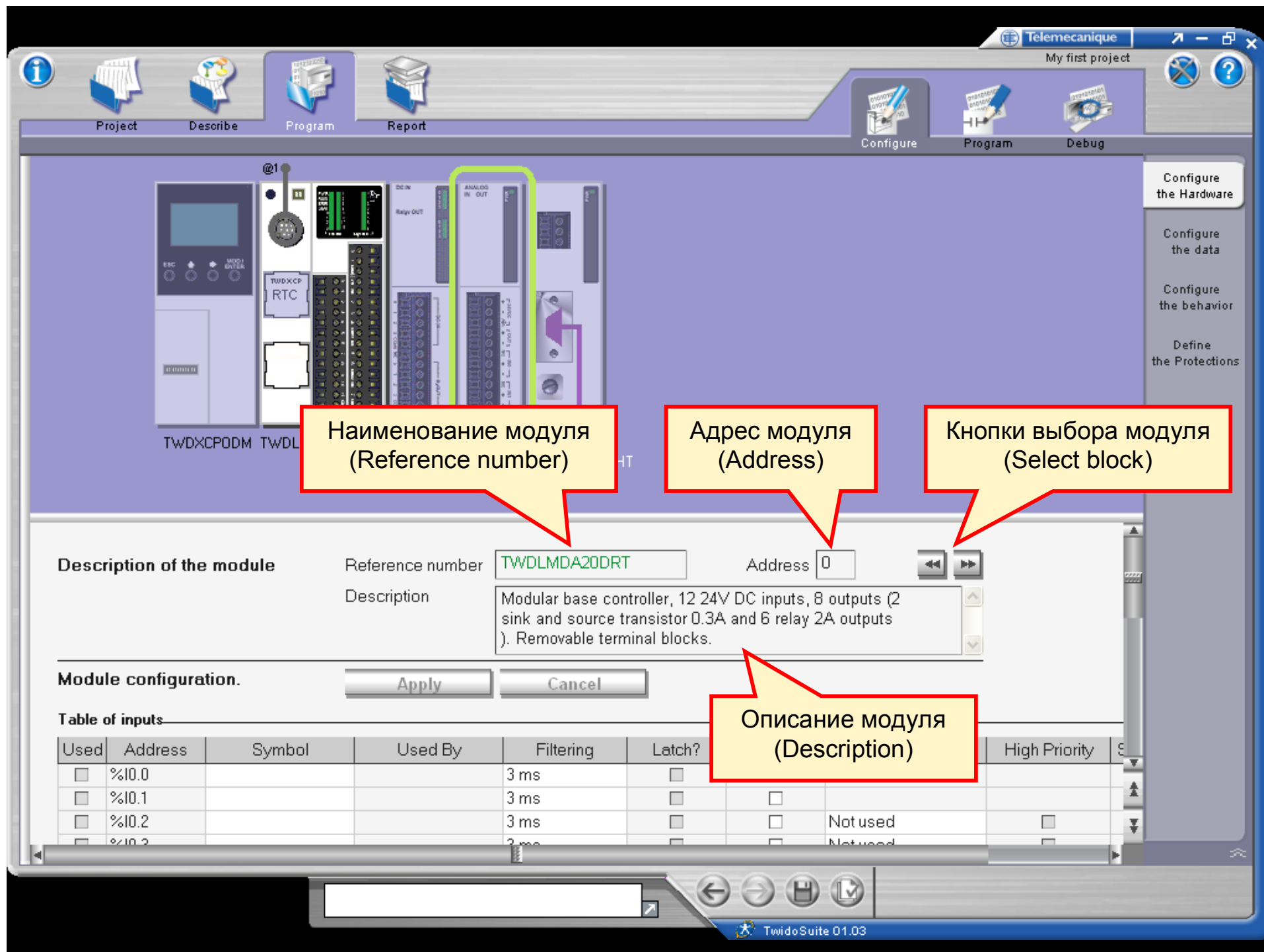
Description Modular base controller, 12 24V DC inputs, 8 outputs (2 force transistor 0.3A and 6 relay 2A outputs terminal blocks.

Module configuration.

Table of inputs

Used	Address	Symbol	Used By	Filtering	Latch?	Run/Stop?	Deactivation	High Priority
<input type="checkbox"/>	%I0.0			3 ms	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	%I0.1			3 ms	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	%I0.2			3 ms	<input type="checkbox"/>	<input type="checkbox"/>	Not used	<input type="checkbox"/>
<input type="checkbox"/>	%I0.3			2 ms	<input type="checkbox"/>	<input type="checkbox"/>	Not used	<input type="checkbox"/>

TwidoSuite 01.03



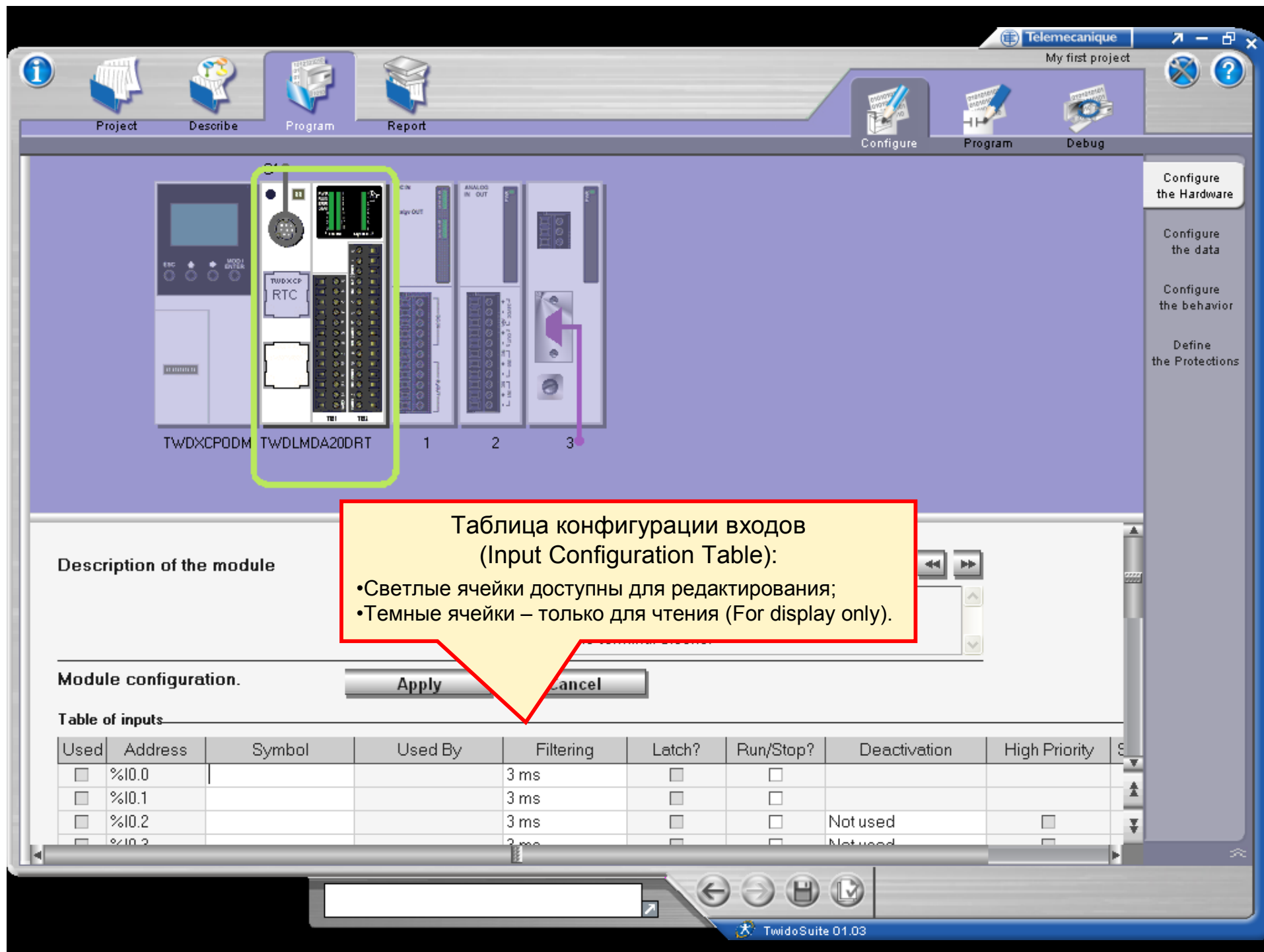


Таблица конфигурации входов (Input Configuration Table):

- Светлые ячейки доступны для редактирования;
- Темные ячейки – только для чтения (For display only).

Telemecanique
My first project

Project Describe Program Report

Configure Program Debug

Configure the Hardware
Configure the data
Configure the behavior
Define the Protections

Занятость в программе (Used)

Физический адрес входа (Address)

Символьное имя (Symbol)

Логика использования входа (Used By)

Время срабатывания входа (Filtering)

Вход с защелкой (Latch)

Пуск/останов программы (Run/Stop?)

Description of the module

Reference number TWDLMDA20DRT

Description Modular base controller, 12 24V sink and source transistor 0.3A and 6 relay 2A outputs (). Removable terminal blocks.

Module configuration.

Apply Cancel

Table of inputs

Used	Address	Symbol	Used By	Filtering	Latch?	Run/Stop?	Deactivation	High Priority	
<input type="checkbox"/>	%I0.0			3 ms	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	%I0.1			3 ms	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	%I0.2			3 ms	<input type="checkbox"/>	<input type="checkbox"/>	Not used	<input type="checkbox"/>	
<input type="checkbox"/>	%I0.3			2 ms	<input type="checkbox"/>	<input type="checkbox"/>	Not used	<input type="checkbox"/>	

TwidoSuite 01.03

Telemecanique My first project

Project Describe Program Report Configure Program Debug

Configure the Hardware
Configure the data
Configure the behavior
Define the Protections

ТWDXCP0DM ТWDLMDA20DRT 1 2 3

Номер подпрограммы (SR Number)

Высокий приоритет (High Priority)

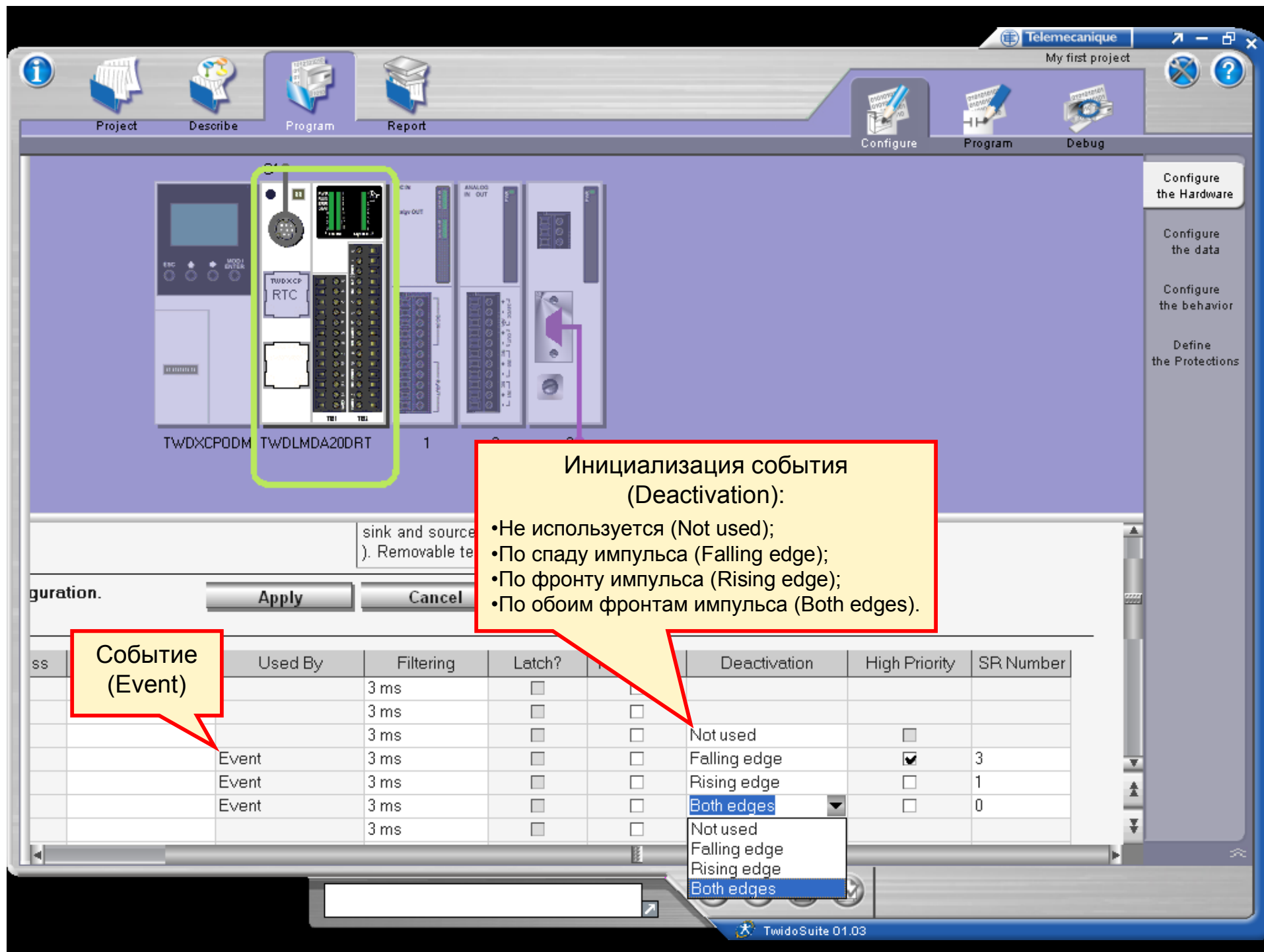
Инициализация события (Deactivation)

Description of the module

Module configuration

ss	Symbol	Used By	Filtering	Latch?	Run/Stop?	Deactivation	High Priority	SR Number
			3 ms	<input type="checkbox"/>	<input type="checkbox"/>			
			3 ms	<input type="checkbox"/>	<input type="checkbox"/>			
			3 ms	<input type="checkbox"/>	<input type="checkbox"/>	Not used	<input type="checkbox"/>	
			2 ms	<input type="checkbox"/>	<input type="checkbox"/>	Not used	<input type="checkbox"/>	

TwidoSuite 01.03



Telemecanique My first project

Project Describe Program Report Configure Program Debug

Configure the Hardware
Configure the data
Configure the behavior
Define the Protections

Таблица конфигурации выходов
(Output Configuration Table):

- Светлые ячейки доступны для редактирования;
- Темные ячейки – только для чтения (For display only).

Table of outputs

Used	Address	Symbol	Status?	Used By
<input type="checkbox"/>	%Q0.0			
<input type="checkbox"/>	%Q0.1		<input type="checkbox"/>	
<input type="checkbox"/>	%Q0.2		<input type="checkbox"/>	
<input type="checkbox"/>	%Q0.3		<input type="checkbox"/>	
<input type="checkbox"/>	%Q0.4			
<input type="checkbox"/>	%Q0.5			
<input type="checkbox"/>	%Q0.6			
<input type="checkbox"/>	%Q0.7			

TwidoSuite 01.03

Telemecanique
My first project

Project Describe Program Report

Configure Program Debug

Configure the Hardware
Configure the data
Configure the behavior
Define the Protections

Занятость в программе (Used)

Физический адрес выхода (Address)

Символьное имя (Symbol)

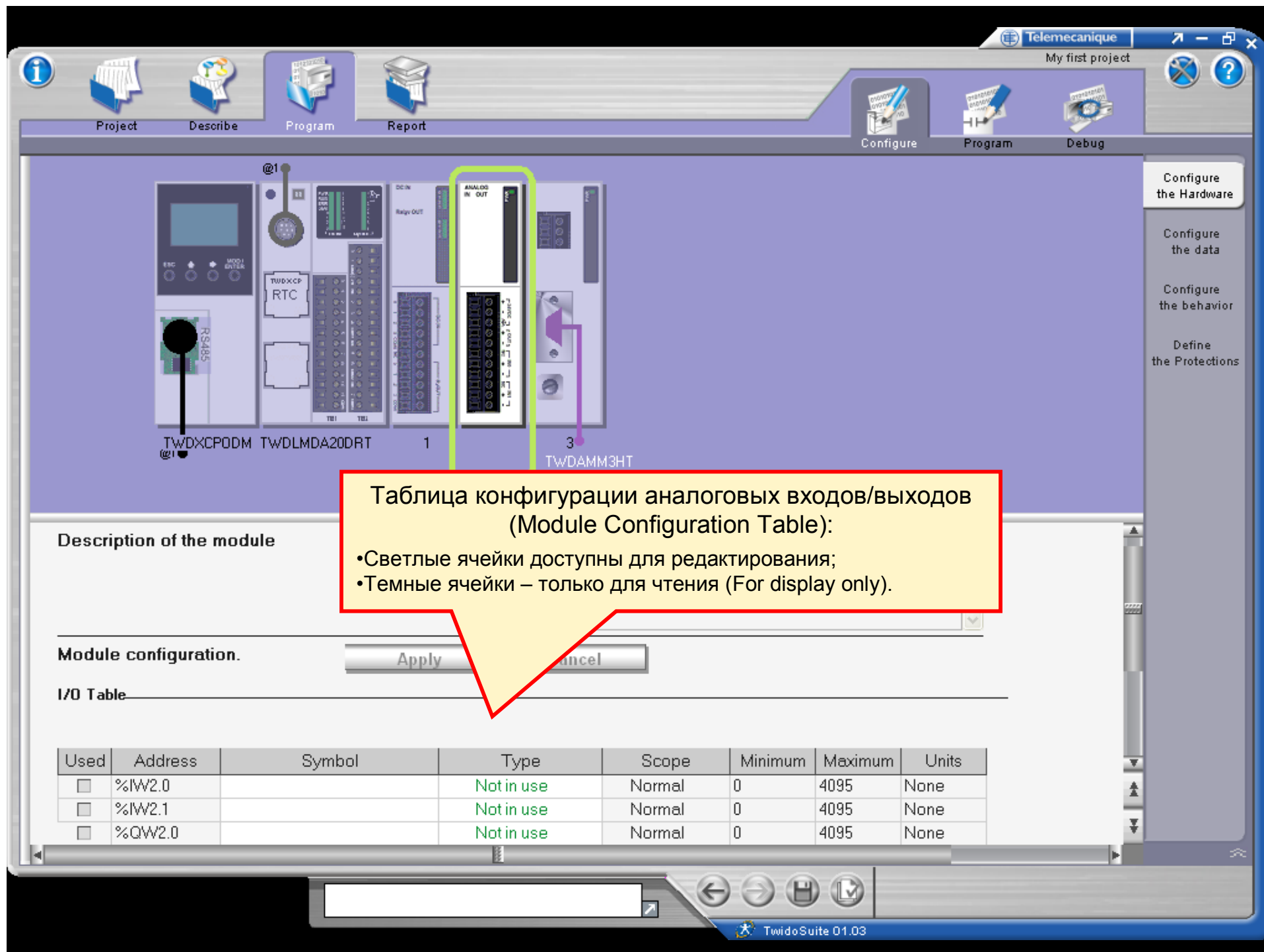
Индикация состояния контроллера (Status?)

Логика использования выхода (Used By)

Table of outputs

Used	Address	Symbol	Status?	Used By
<input type="checkbox"/>	%Q0.0			
<input type="checkbox"/>	%Q0.1		<input type="checkbox"/>	
<input type="checkbox"/>	%Q0.2		<input type="checkbox"/>	
<input type="checkbox"/>	%Q0.3		<input type="checkbox"/>	
<input type="checkbox"/>	%Q0.4			
<input type="checkbox"/>	%Q0.5			
<input type="checkbox"/>	%Q0.6			
<input type="checkbox"/>	%Q0.7			

TwidoSuite 01.03



Telemecanique
My first project

Project Describe Program Report

Configure Program Debug

Configure the Hardware
Configure the data
Configure the behavior
Define the Protections

Занятость в программе (Used)

Физический адрес входа/выхода (Address)

Символьное имя (Symbol)

Тип входа/выхода (Type):

- Не используется (Not in use);
- Вход по напряжению (0 – 10 V);
- Токковый вход (4 – 20 mA).

Description of the module

Reference number TWDXCP0DM TWDLMD420DRT 1

Description Expansion module with 2 analog inputs and 1 output (0 - 10 V, 4 - 20mA), 12 bits, removable screw terminal. (50 mA)

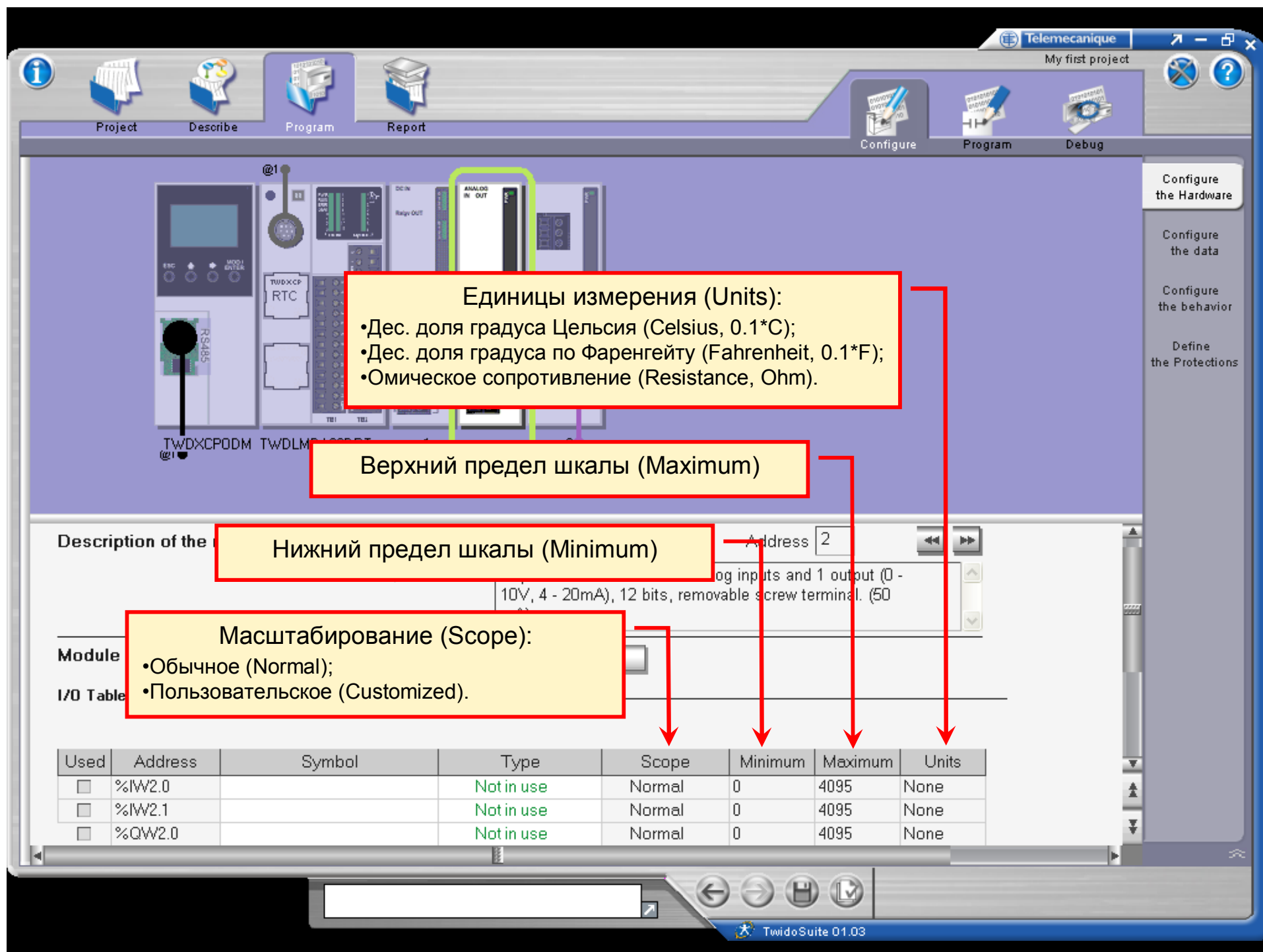
Module configuration.

Apply Cancel

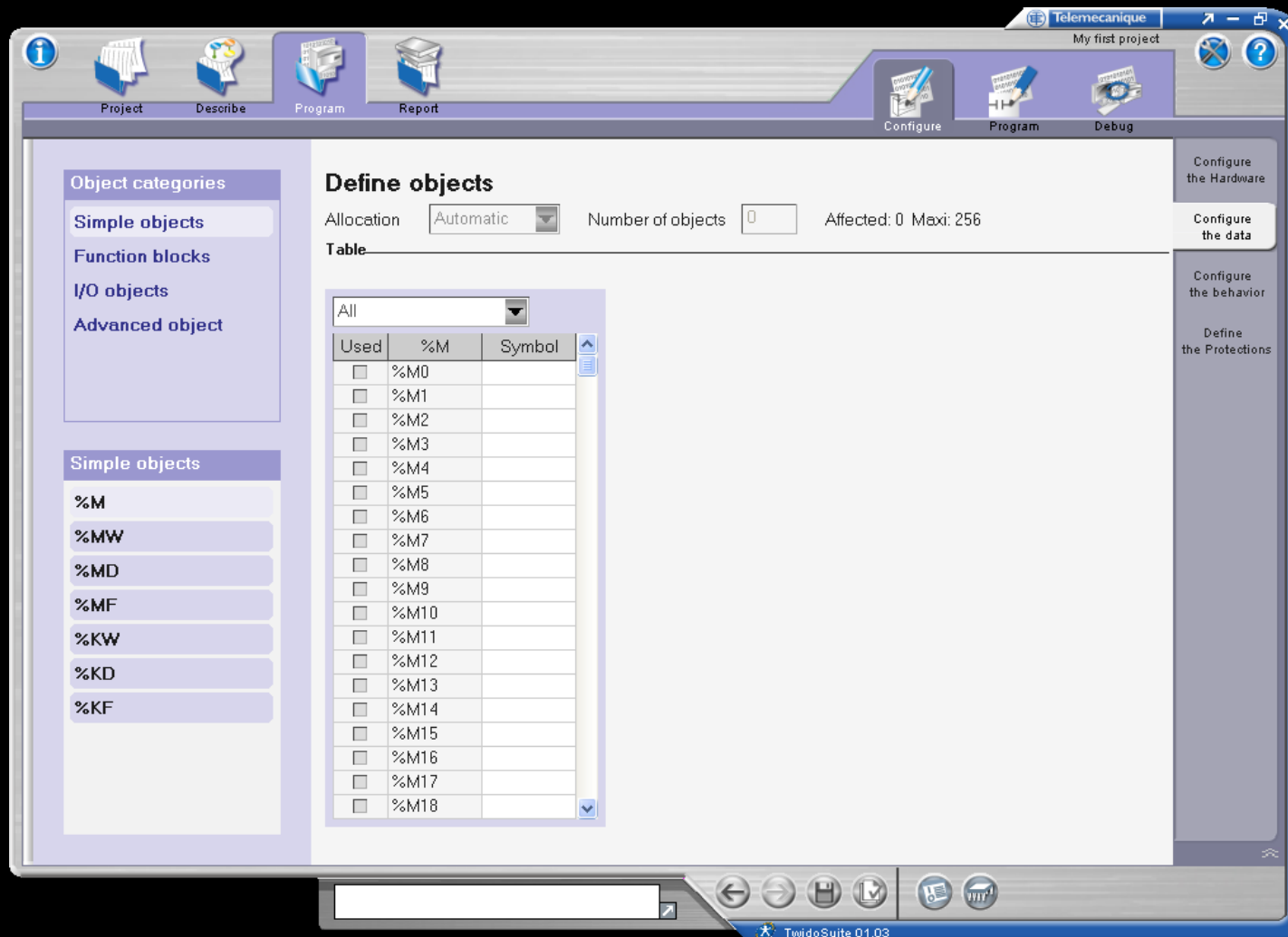
I/O Table

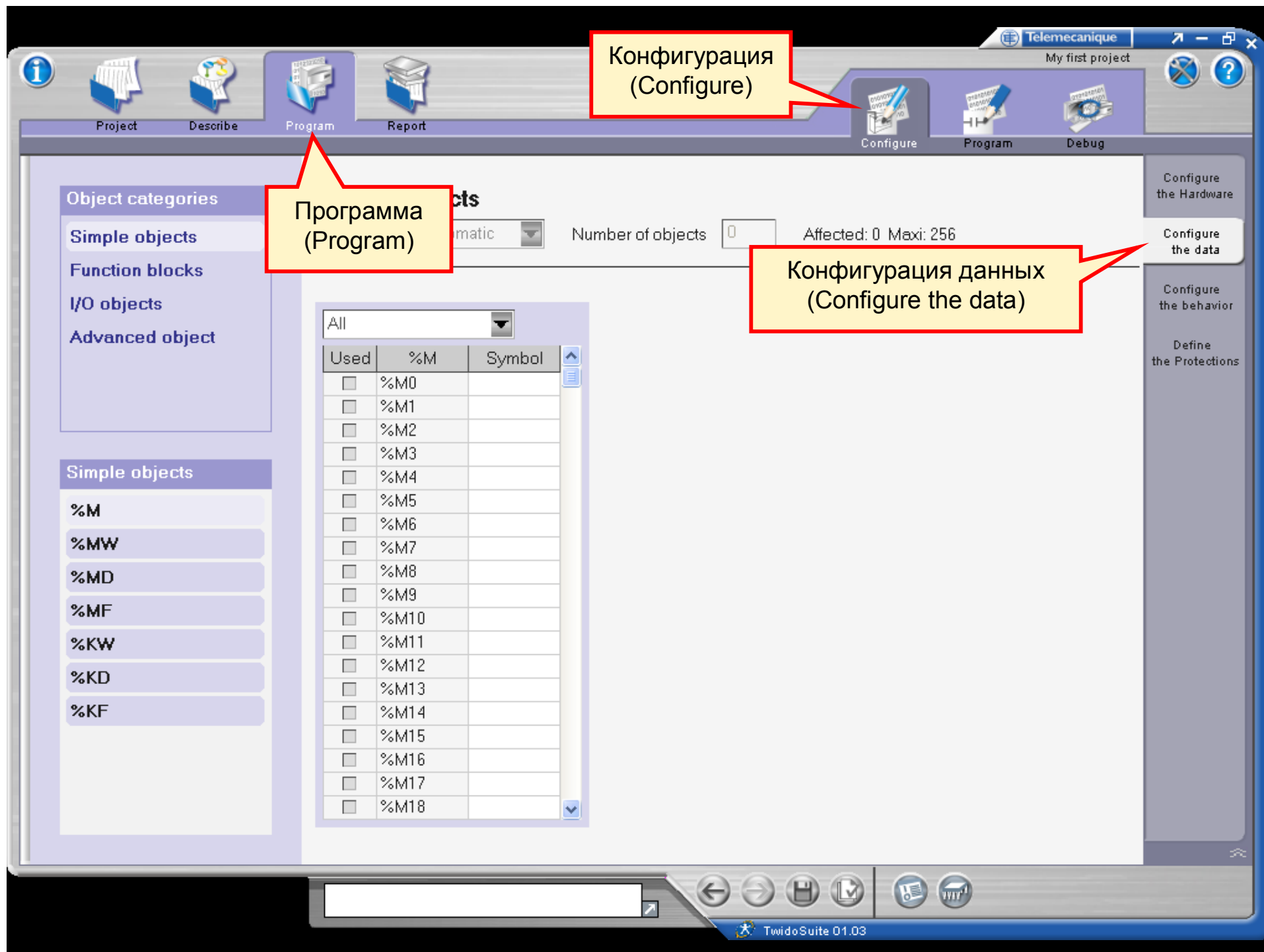
Used	Address	Symbol	Type	Scope	Minimum	Maximum	Units
<input type="checkbox"/>	%IW2.0		Not in use	Normal	0	4095	None
<input type="checkbox"/>	%IW2.1		Not in use	Normal	0	4095	None
<input type="checkbox"/>	%QW2.0		Not in use	Normal	0	4095	None

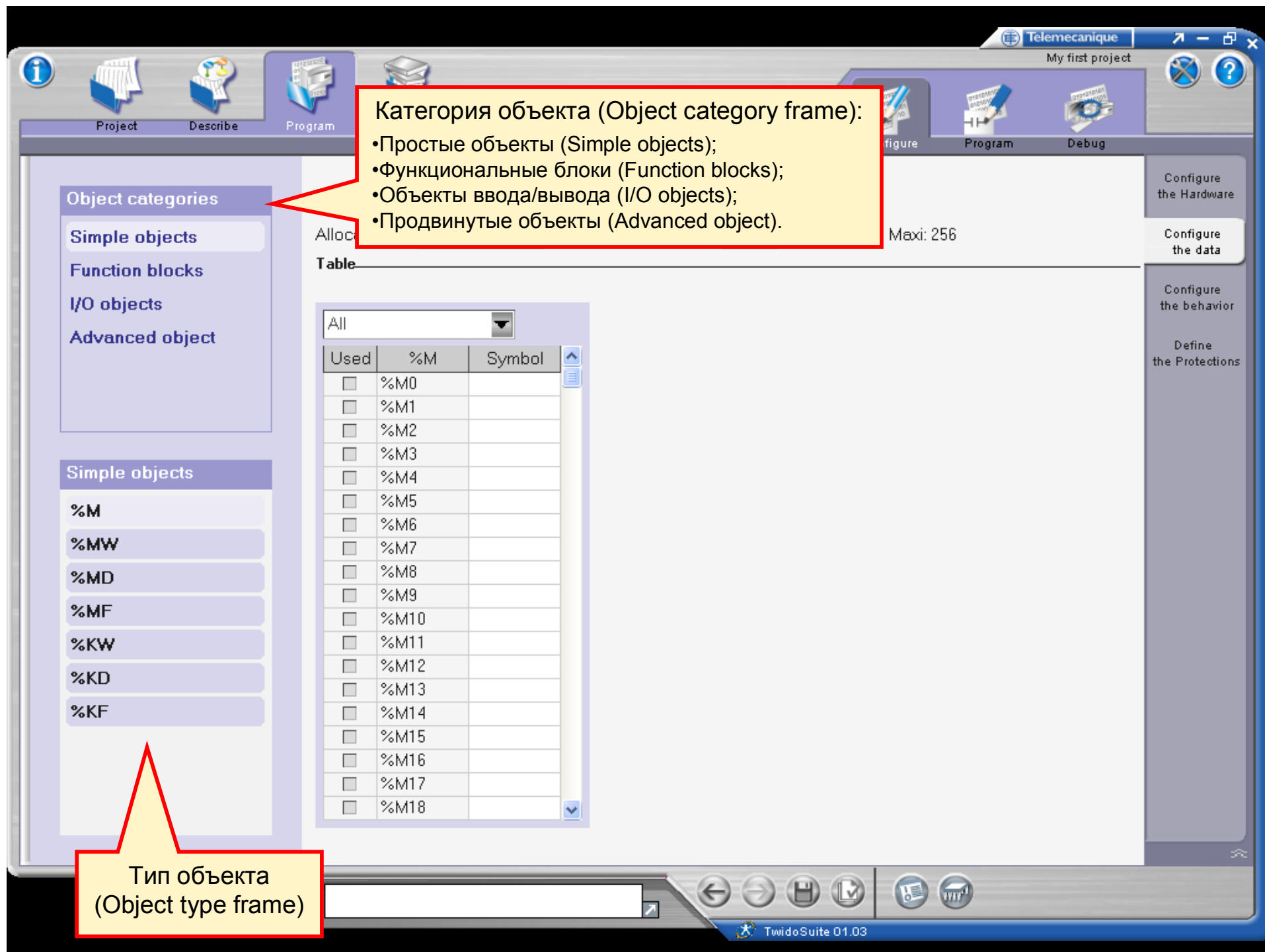
TwidoSuite 01.03

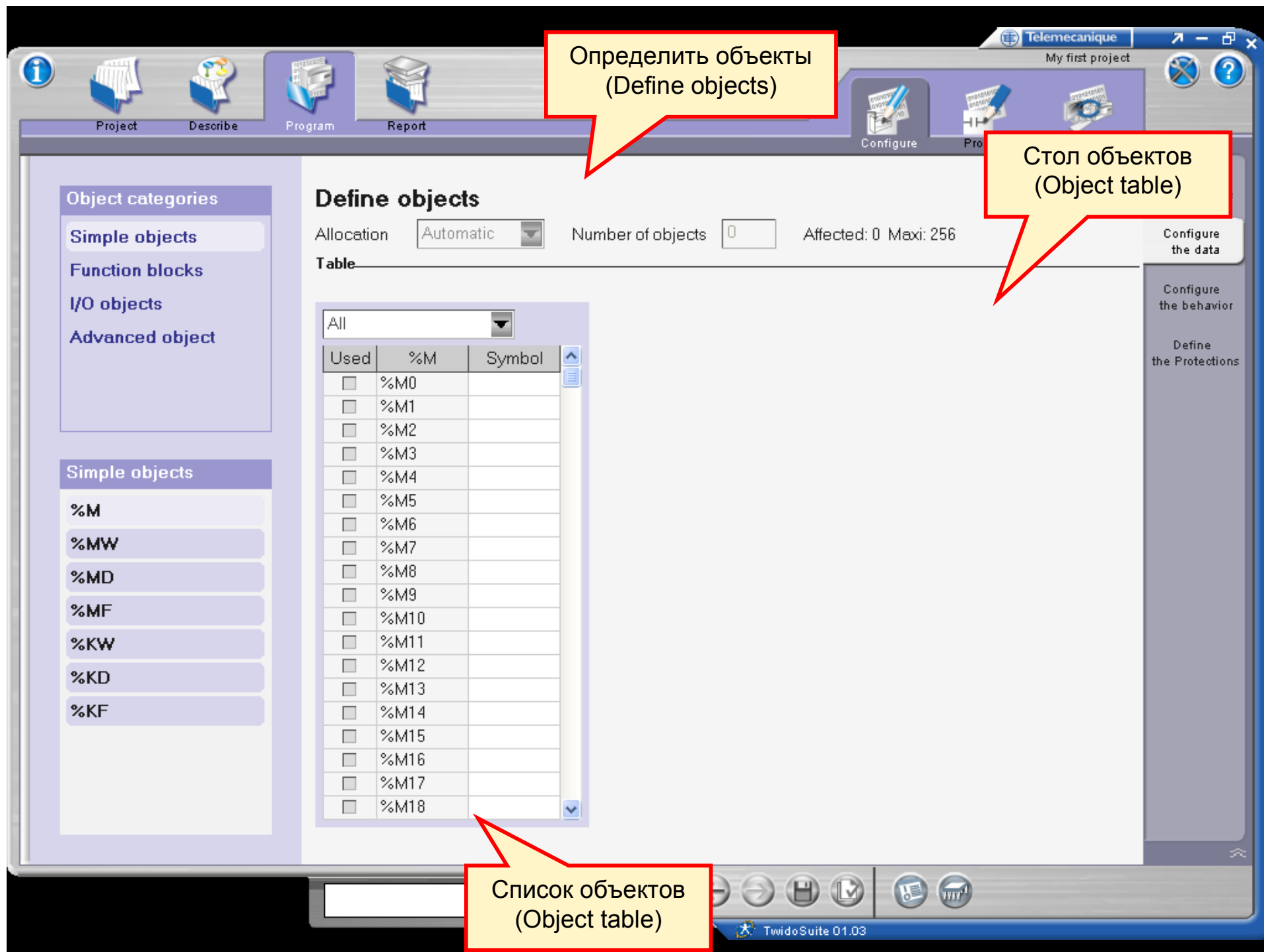


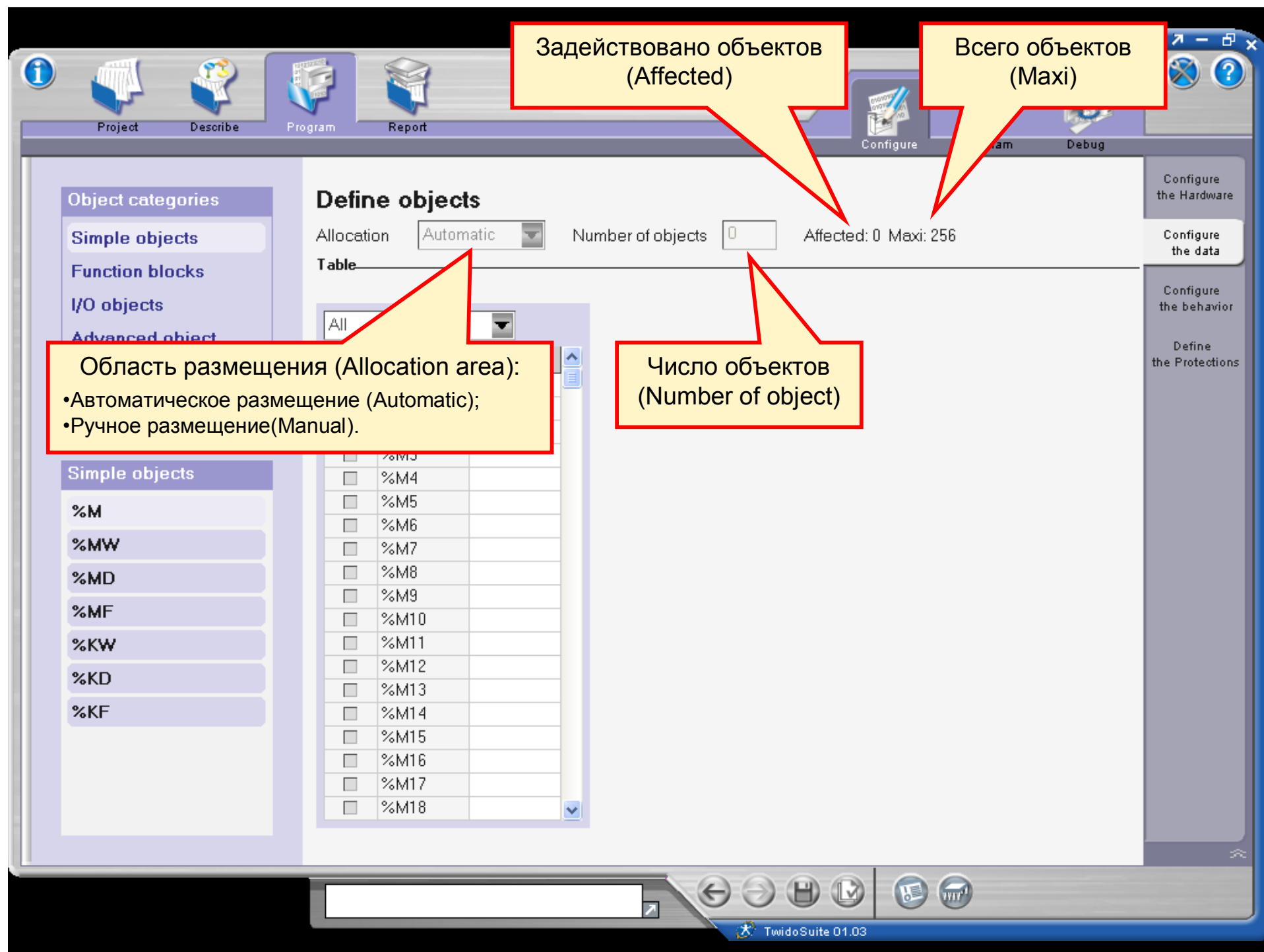
Конфигурирование данных

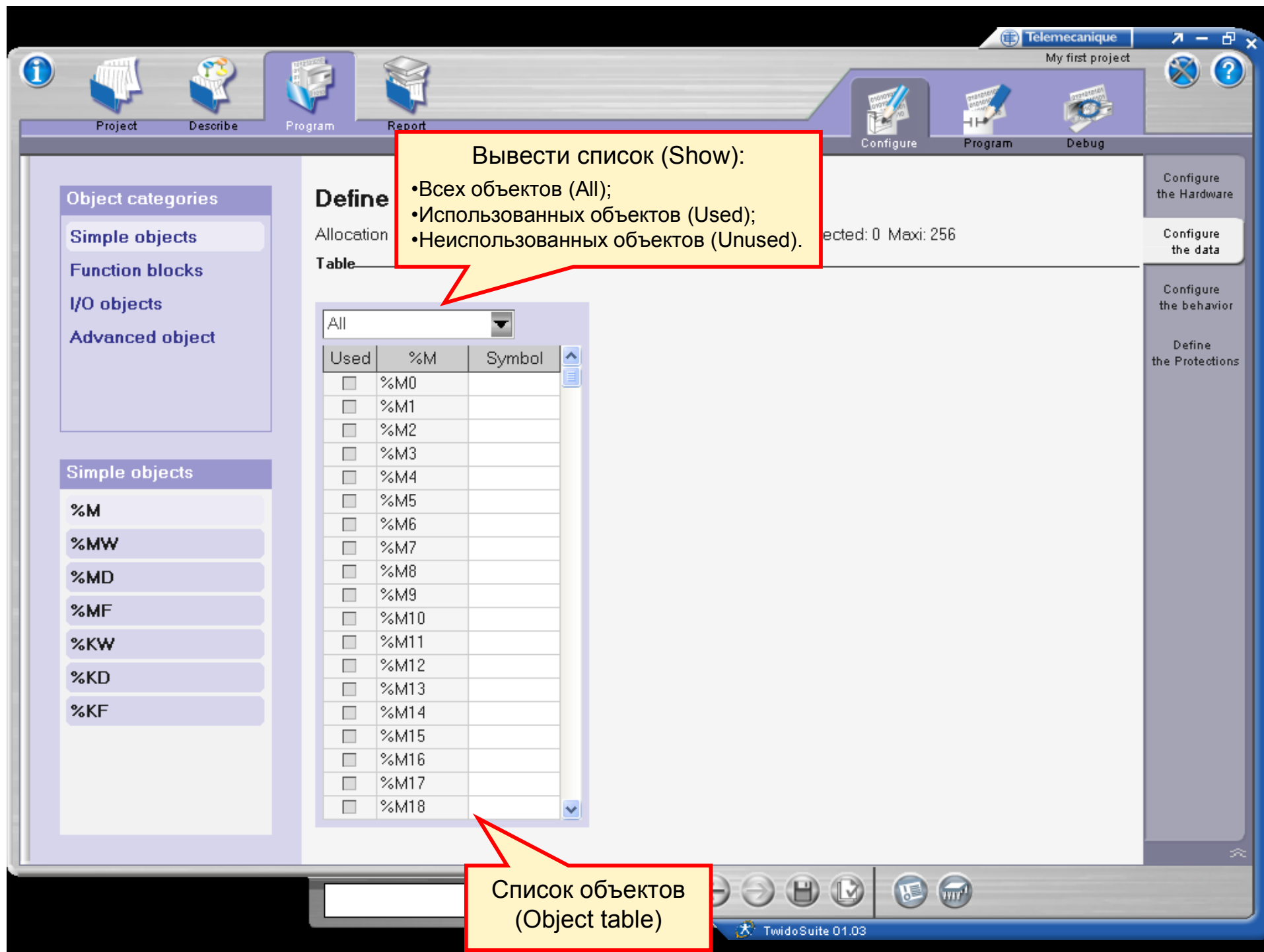


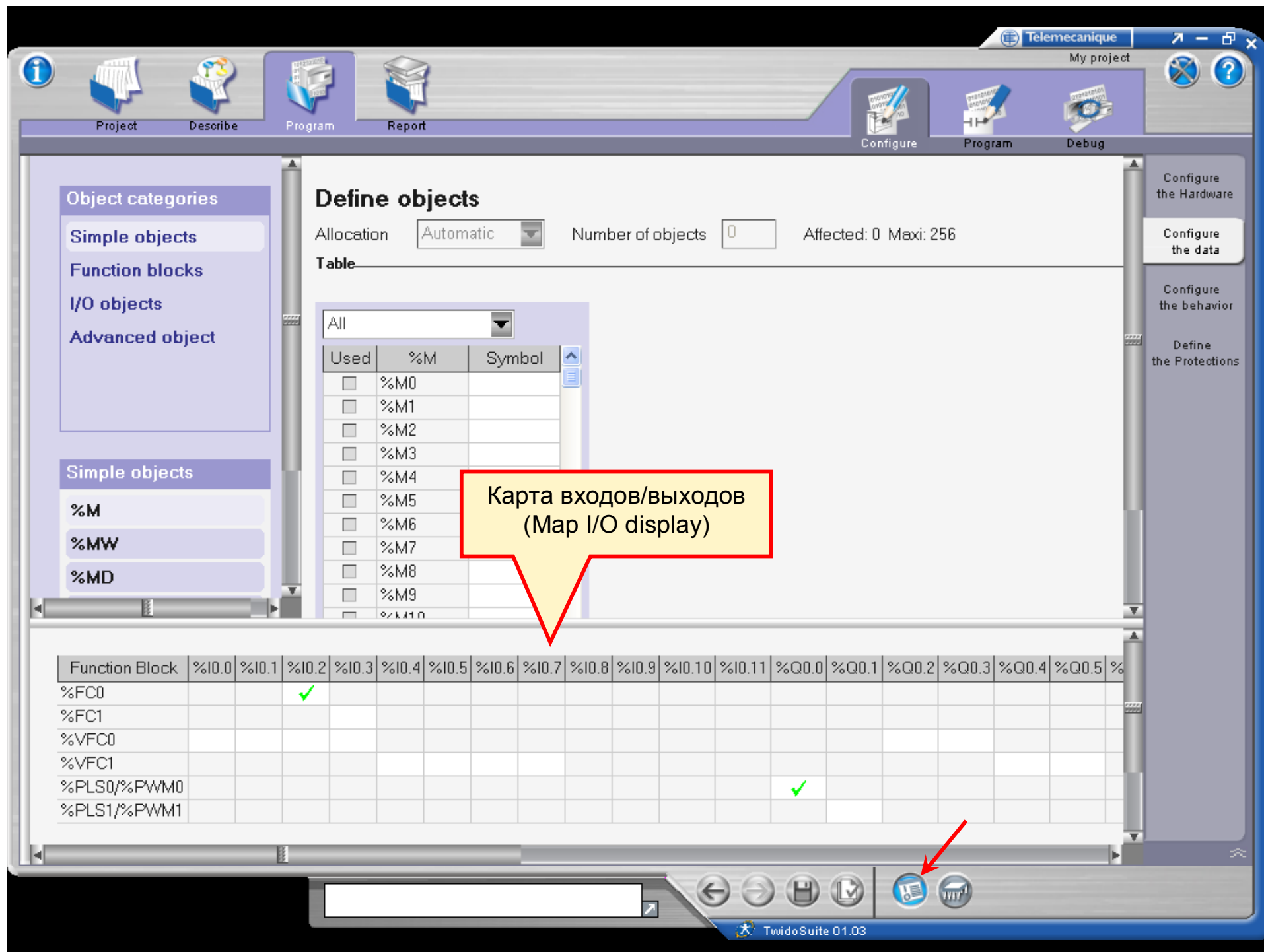












Индикатор использования памяти
(Memory usage display)

The screenshot shows the TwidoSuite 01.03 software interface. The main window is titled 'Define objects'. On the left, there is a sidebar with 'Object categories' and 'Simple objects'. The 'Define objects' section in the center has a table with columns 'Used', '%M', and 'Symbol'. The table lists memory addresses from %M0 to %M17. The 'User data' section on the right shows memory usage for various data types: Memory bits (0 Bits), Memory words (0 Words), Backed up (??? Words), RAM = EEPROM (??? Words), Constants (0 Words), Configuration (346 Words), Avail. mem. data (3018 Words), Executable code (87 Words), Prog. data (4 Words), Online modif. (0 Words), Avail. code mem. (16297 Words), and Execution data (80 Words). The 'User program' section shows memory usage for 'Mem. 1' (87.5% used, 10.1% free) and 'Mem. 2' (99.4% used). A red arrow points to the 'Memory usage display' icon in the bottom toolbar.

Object categories

- Simple objects
- Function blocks
- I/O objects
- Advanced object

Simple objects

- %M
- %MW
- %MD
- %MF
- %KW
- %KD
- %KF

Define objects

Allocation: Automatic Number of objects: 0

Table

Used	%M	Symbol
<input type="checkbox"/>	%M0	
<input type="checkbox"/>	%M1	
<input type="checkbox"/>	%M2	
<input type="checkbox"/>	%M3	
<input type="checkbox"/>	%M4	
<input type="checkbox"/>	%M5	
<input type="checkbox"/>	%M6	
<input type="checkbox"/>	%M7	
<input type="checkbox"/>	%M8	
<input type="checkbox"/>	%M9	
<input type="checkbox"/>	%M10	
<input type="checkbox"/>	%M11	
<input type="checkbox"/>	%M12	
<input type="checkbox"/>	%M13	
<input type="checkbox"/>	%M14	
<input type="checkbox"/>	%M15	
<input type="checkbox"/>	%M16	
<input type="checkbox"/>	%M17	

User data

- Memory bits: 0 Bits
- Memory words: 0 Words
- Backed up: ??? Words
- RAM = EEPROM: ??? Words
- Constants: 0 Words
- Configuration: 346 Words
- Avail. mem. data: 3018 Words

User program

- Executable code: 87 Words
- Prog. data: 4 Words
- Online modif.: 0 Words
- Avail. code mem.: 16297 Words

Other

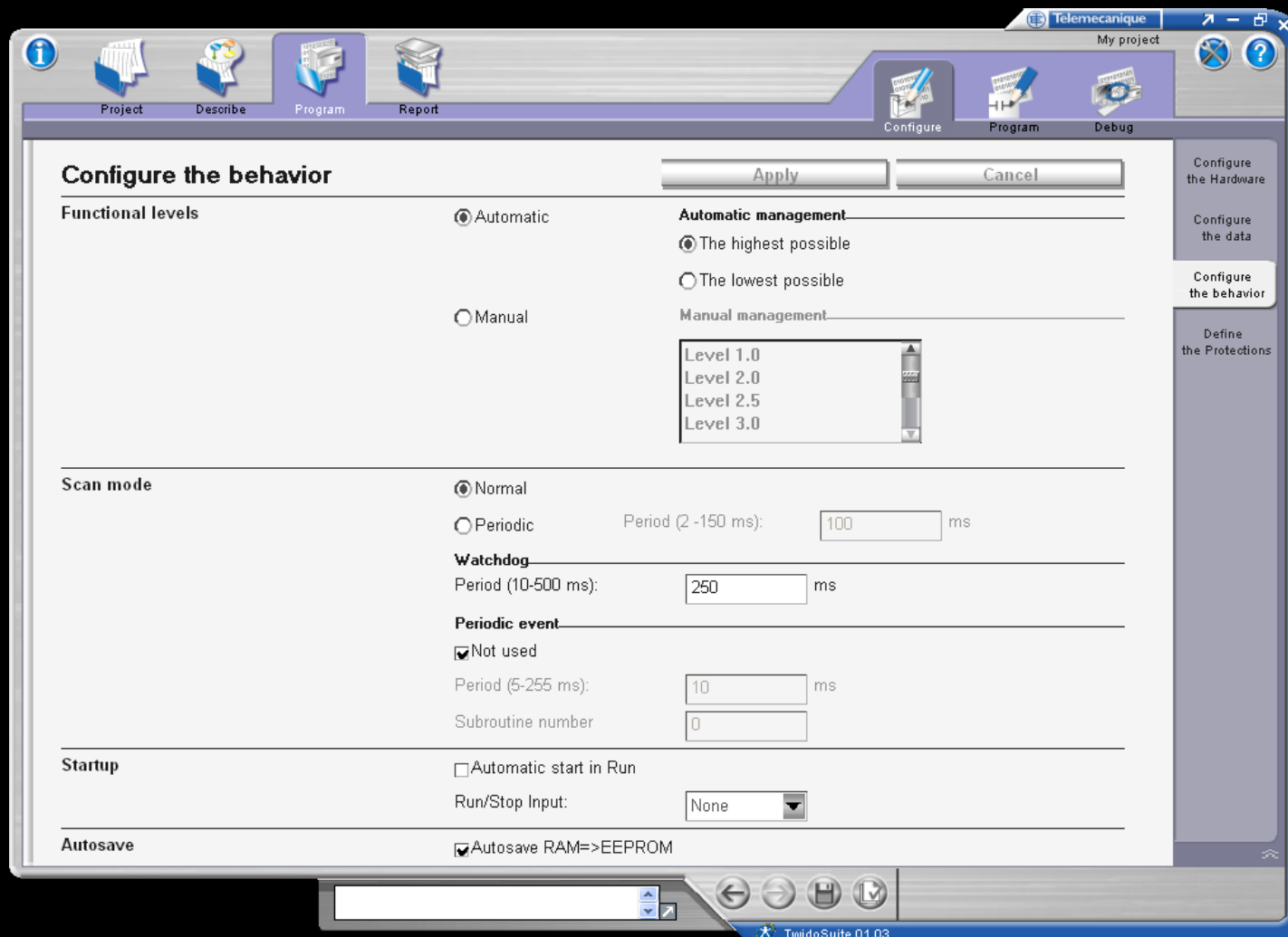
- Execution data: 80 Words

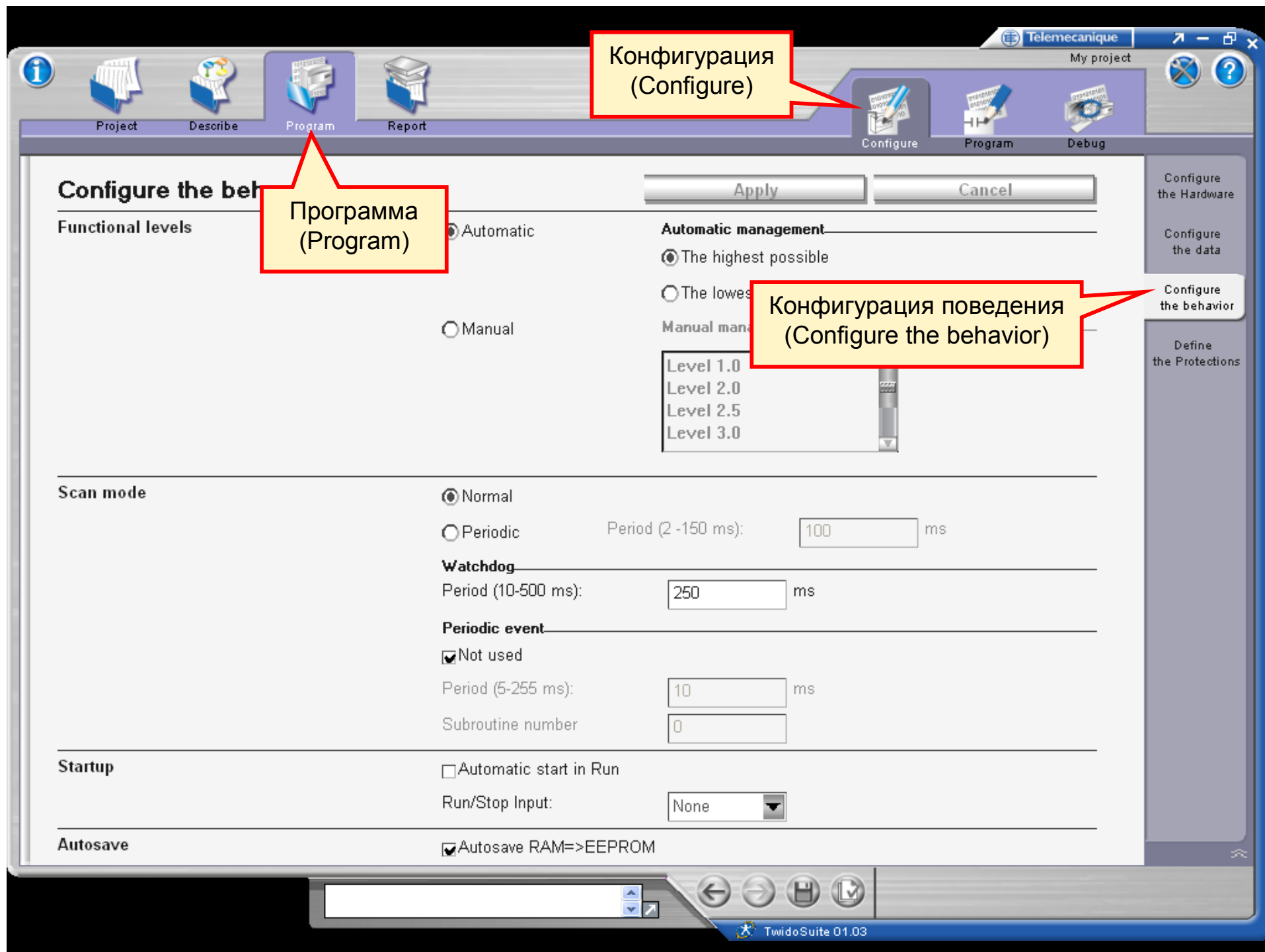
Mem. 1 87.5% 10.1%

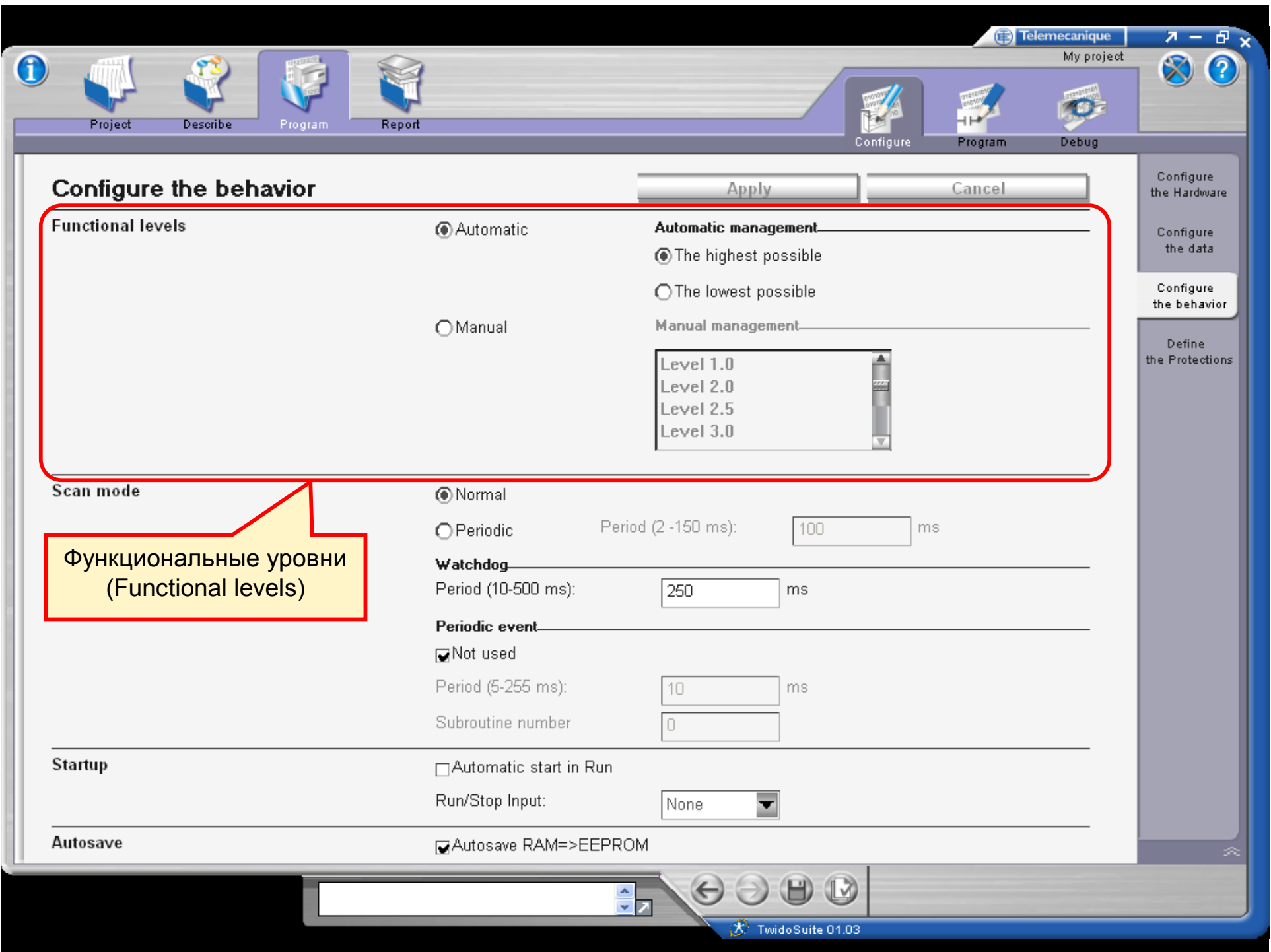
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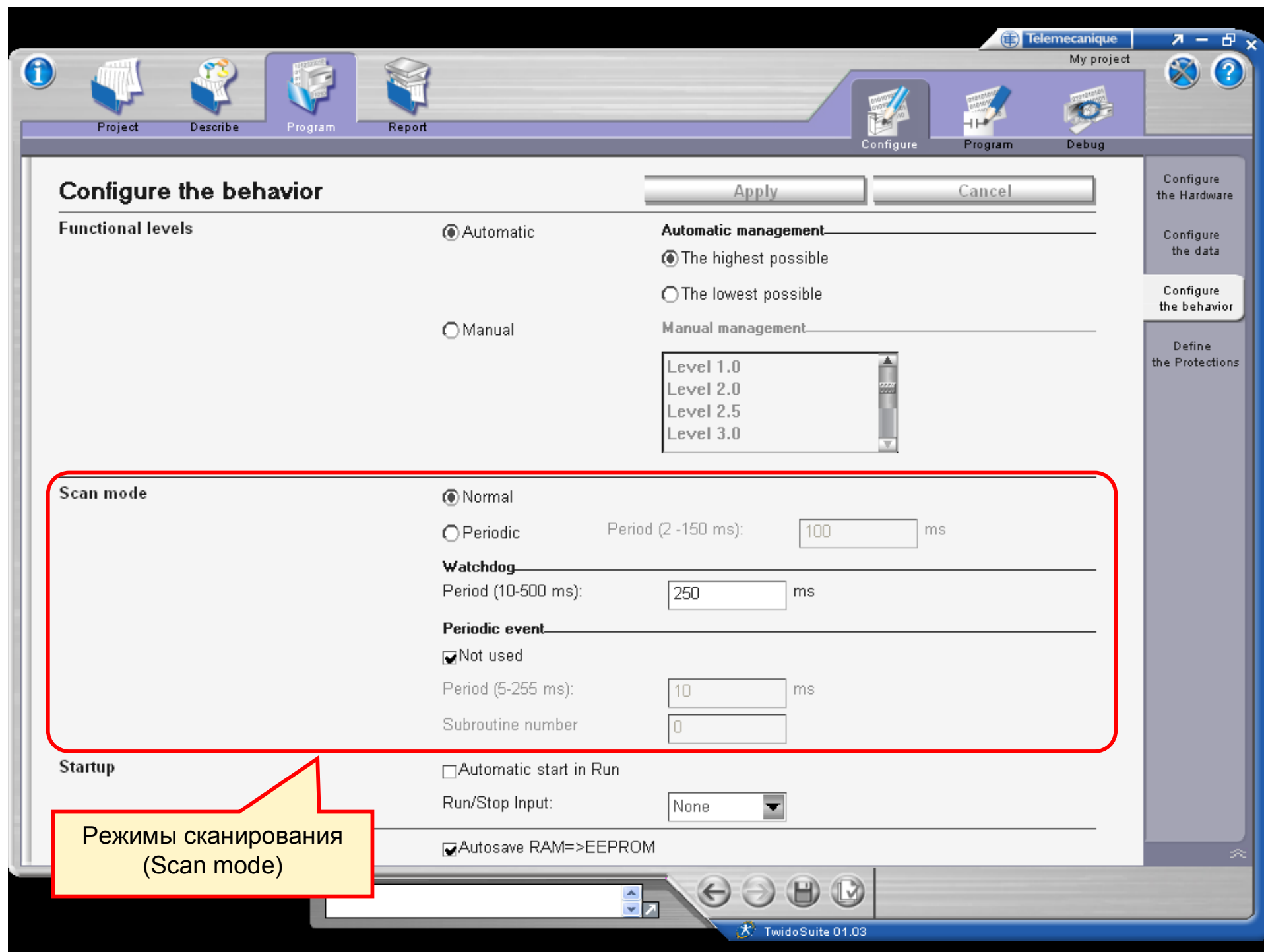
TwidoSuite 01.03

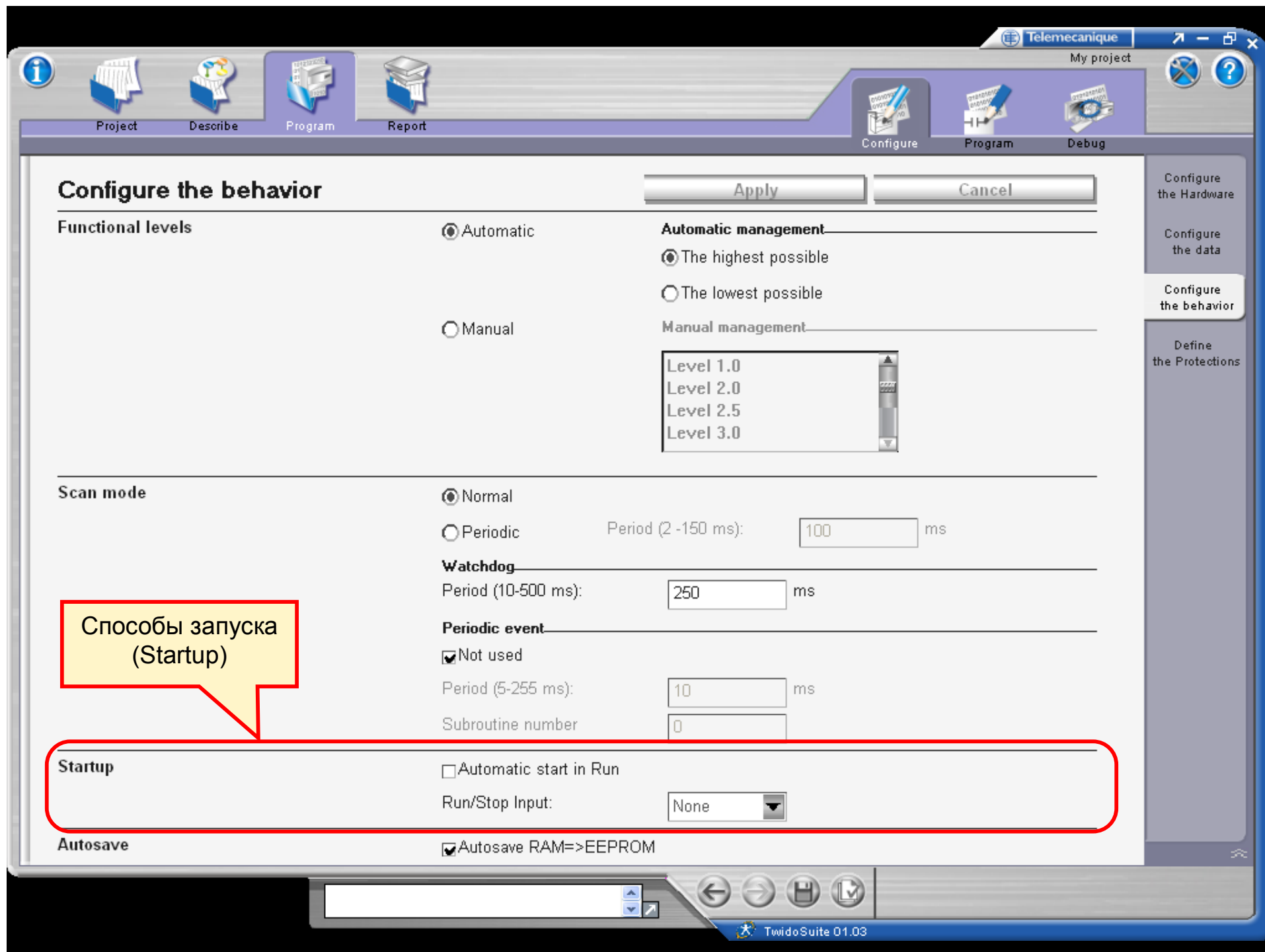
Конфигурирование поведения

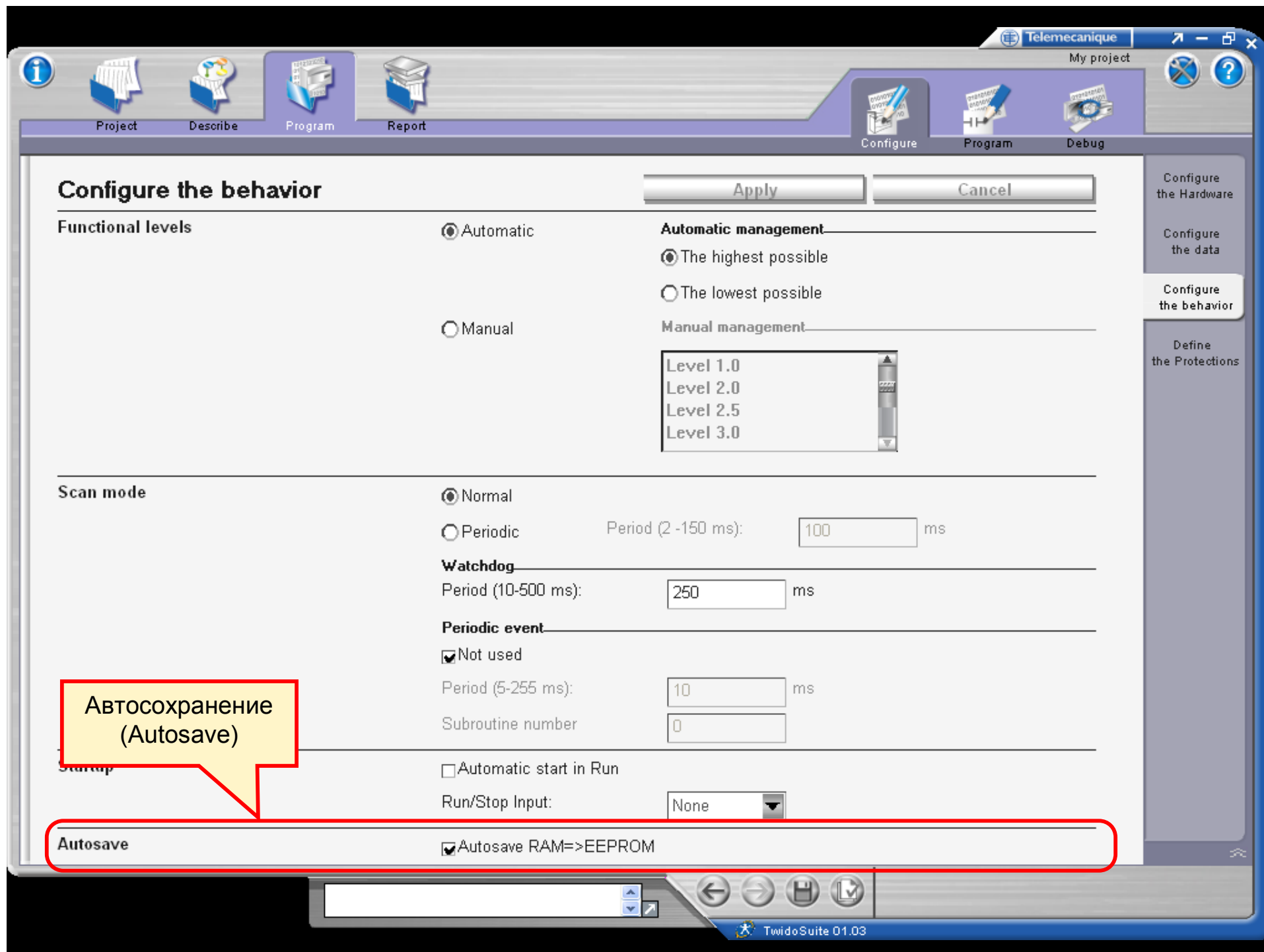


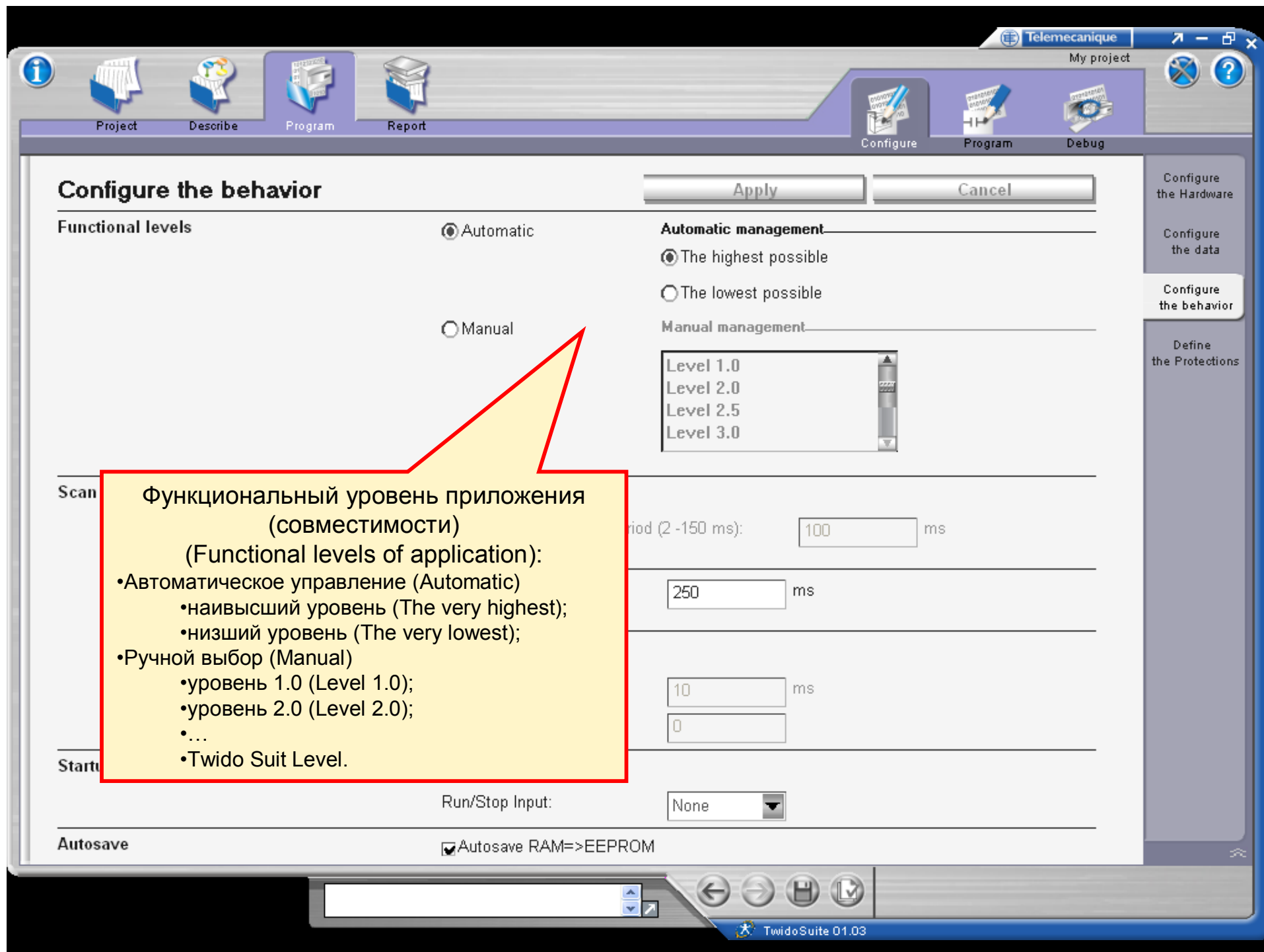


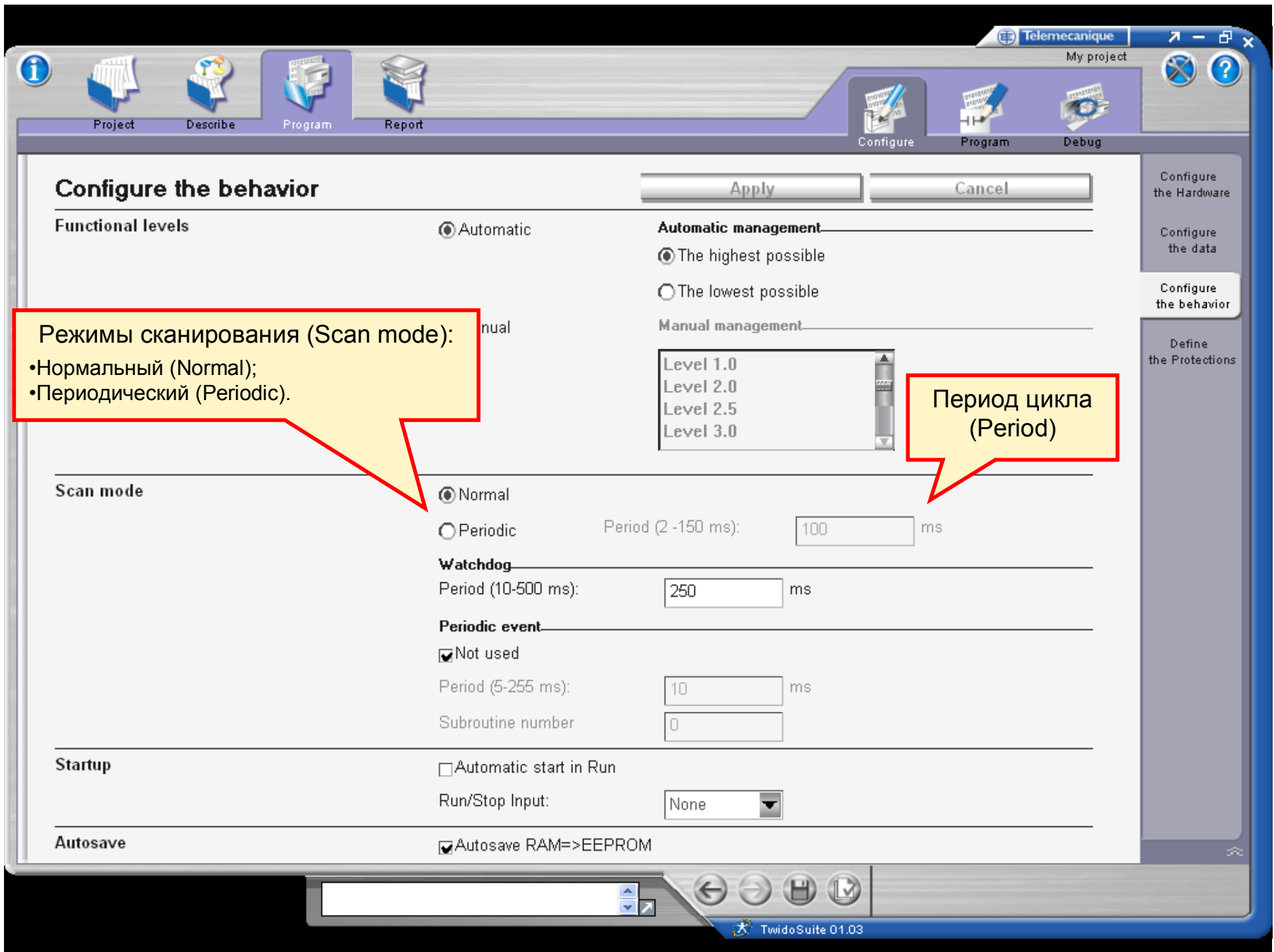


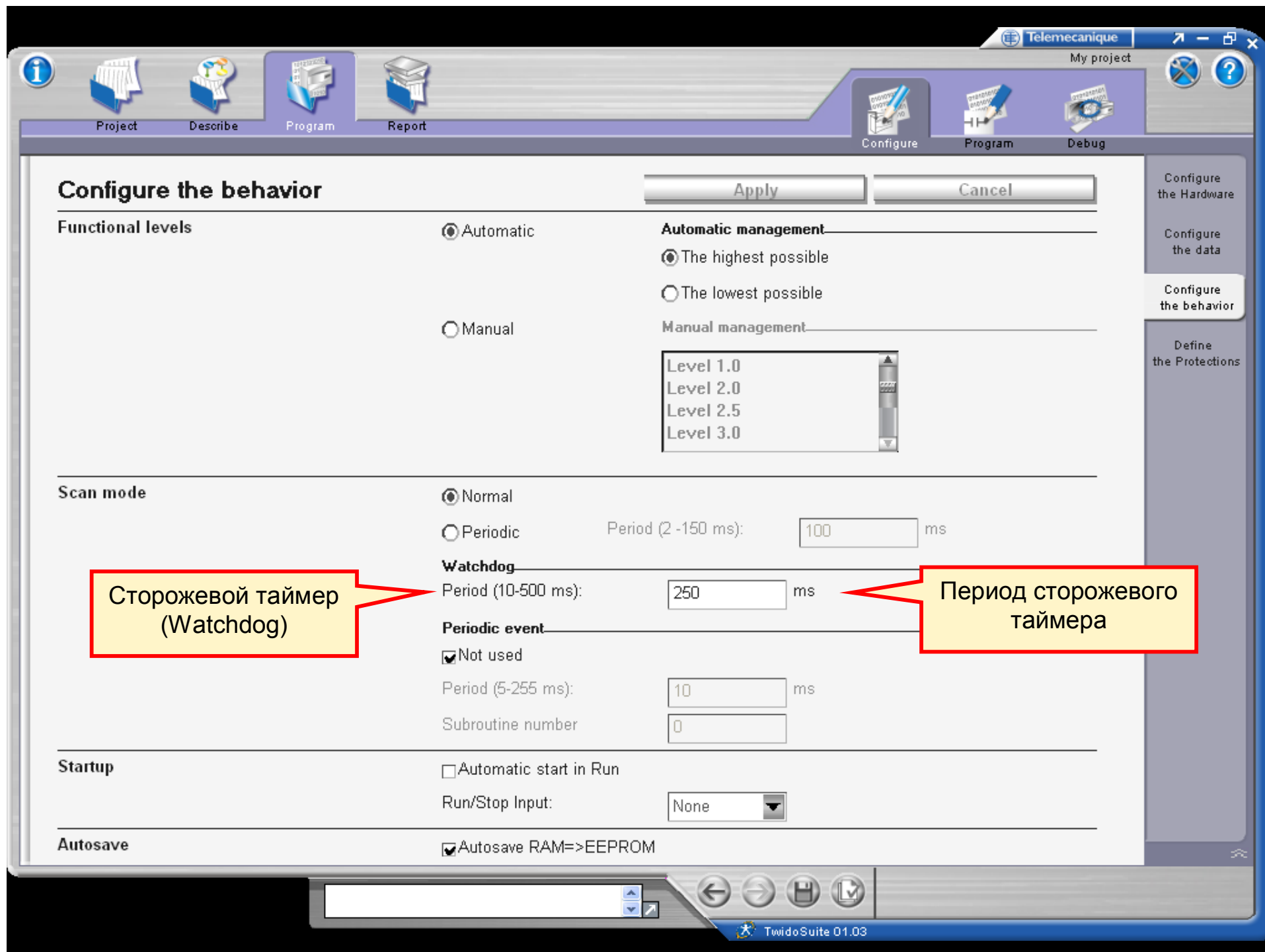


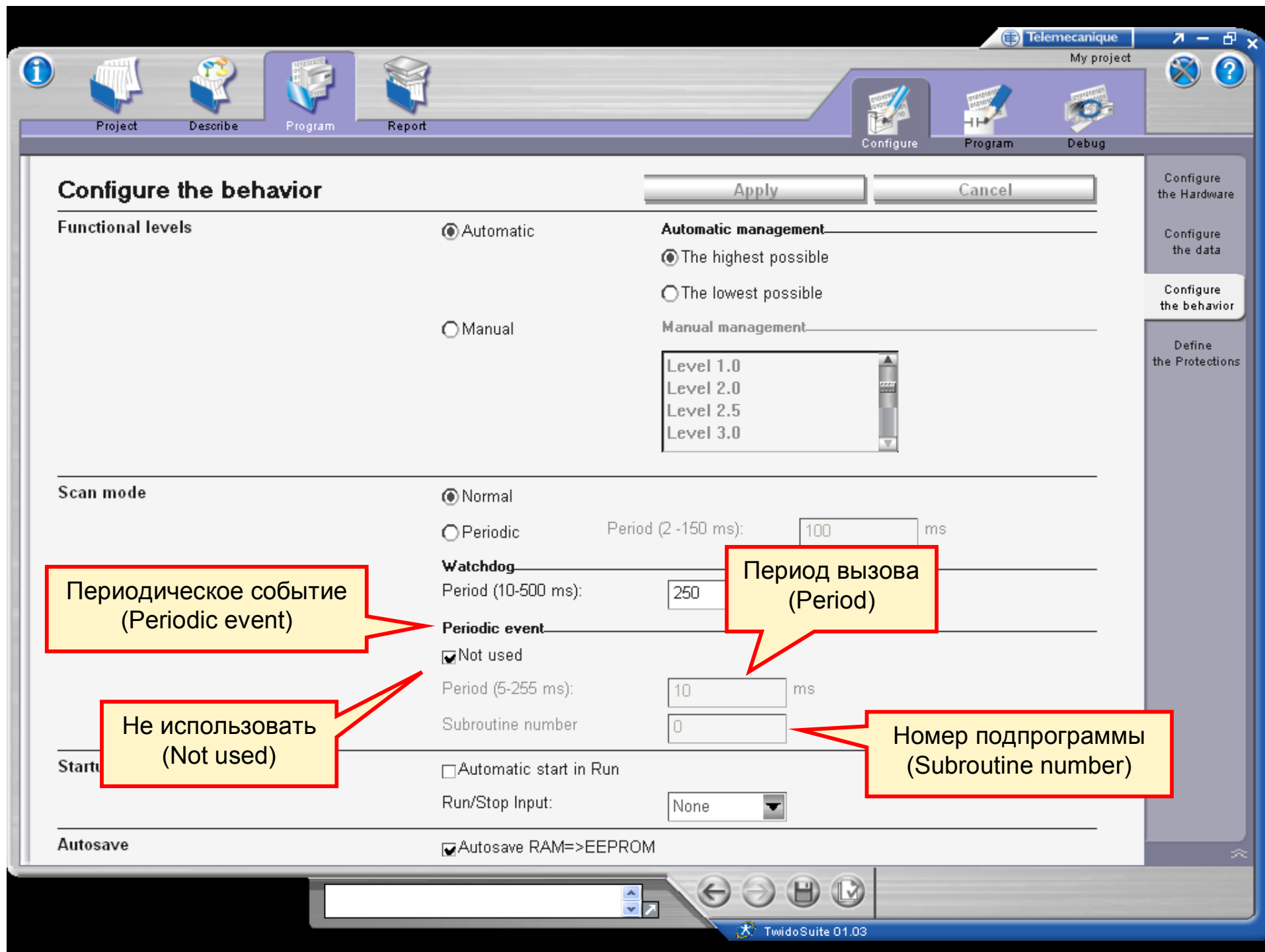


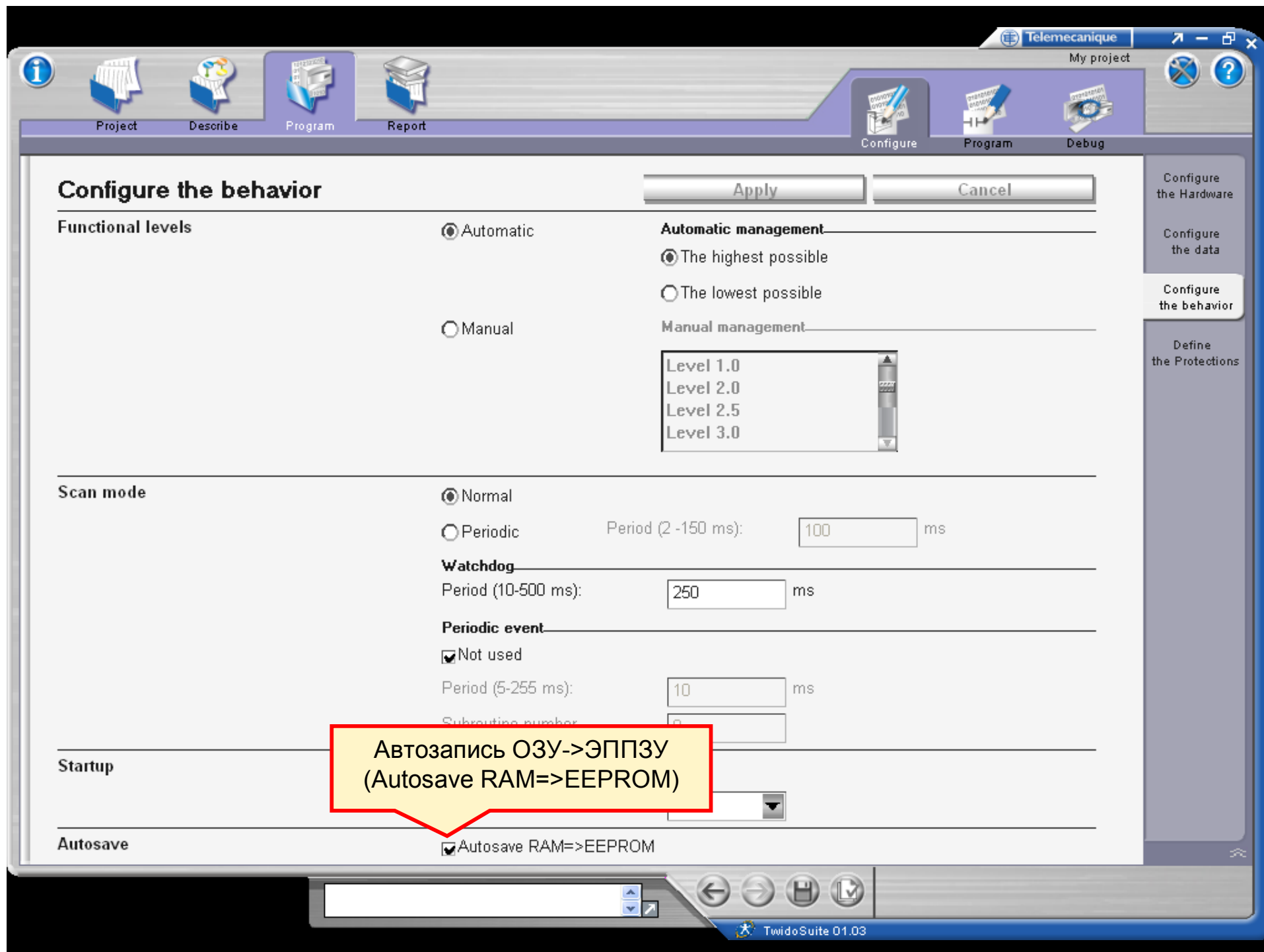




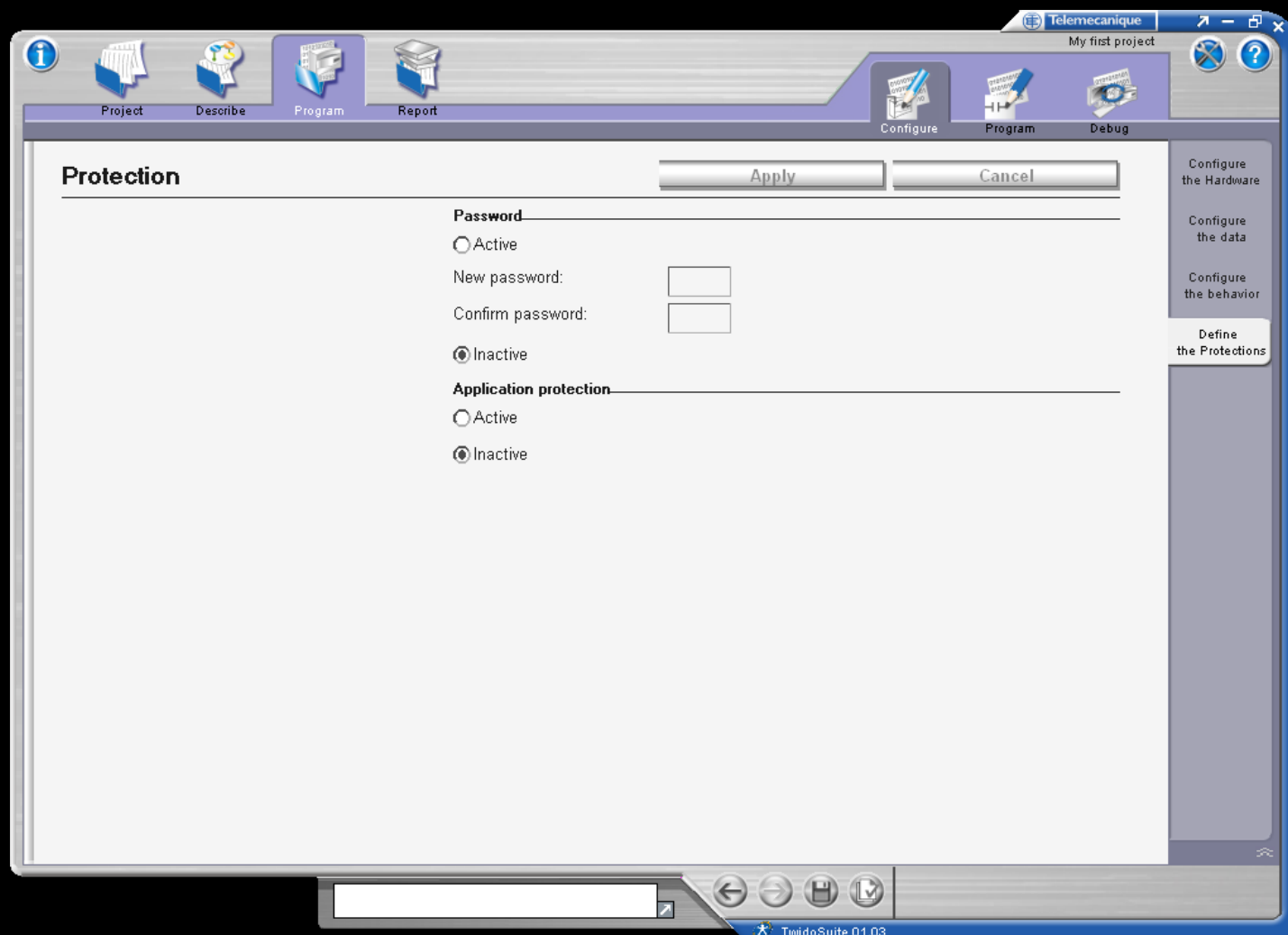


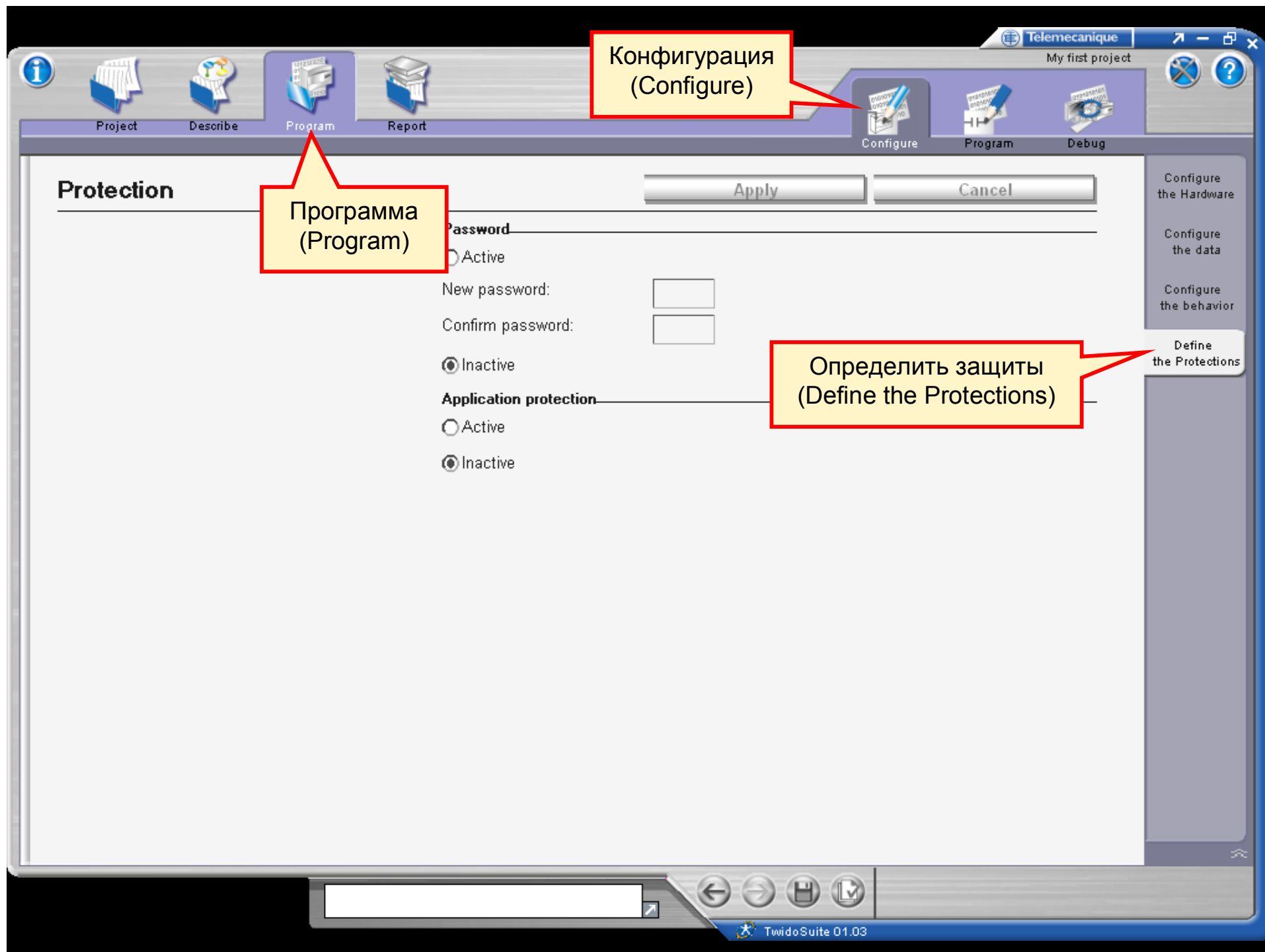


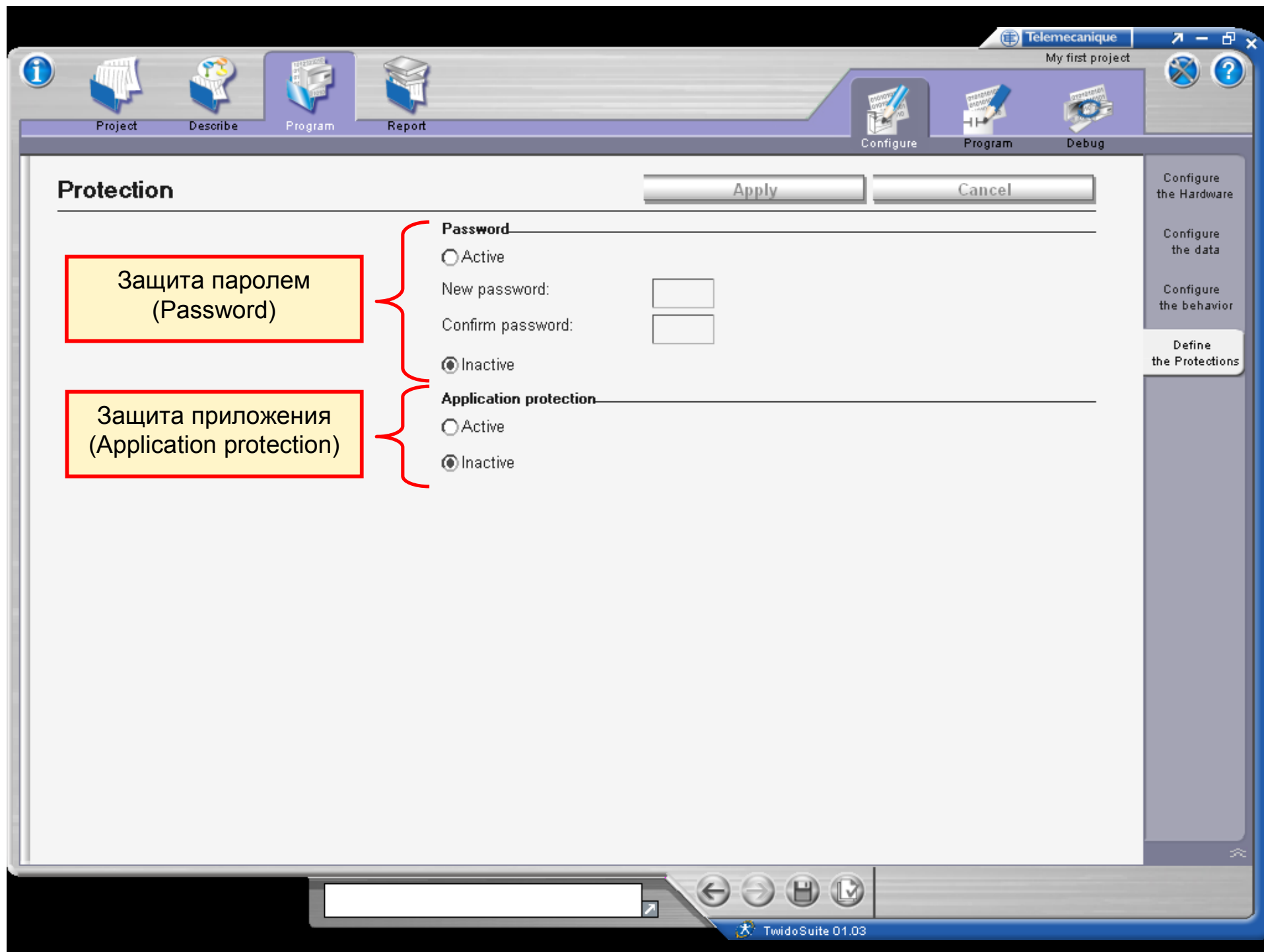


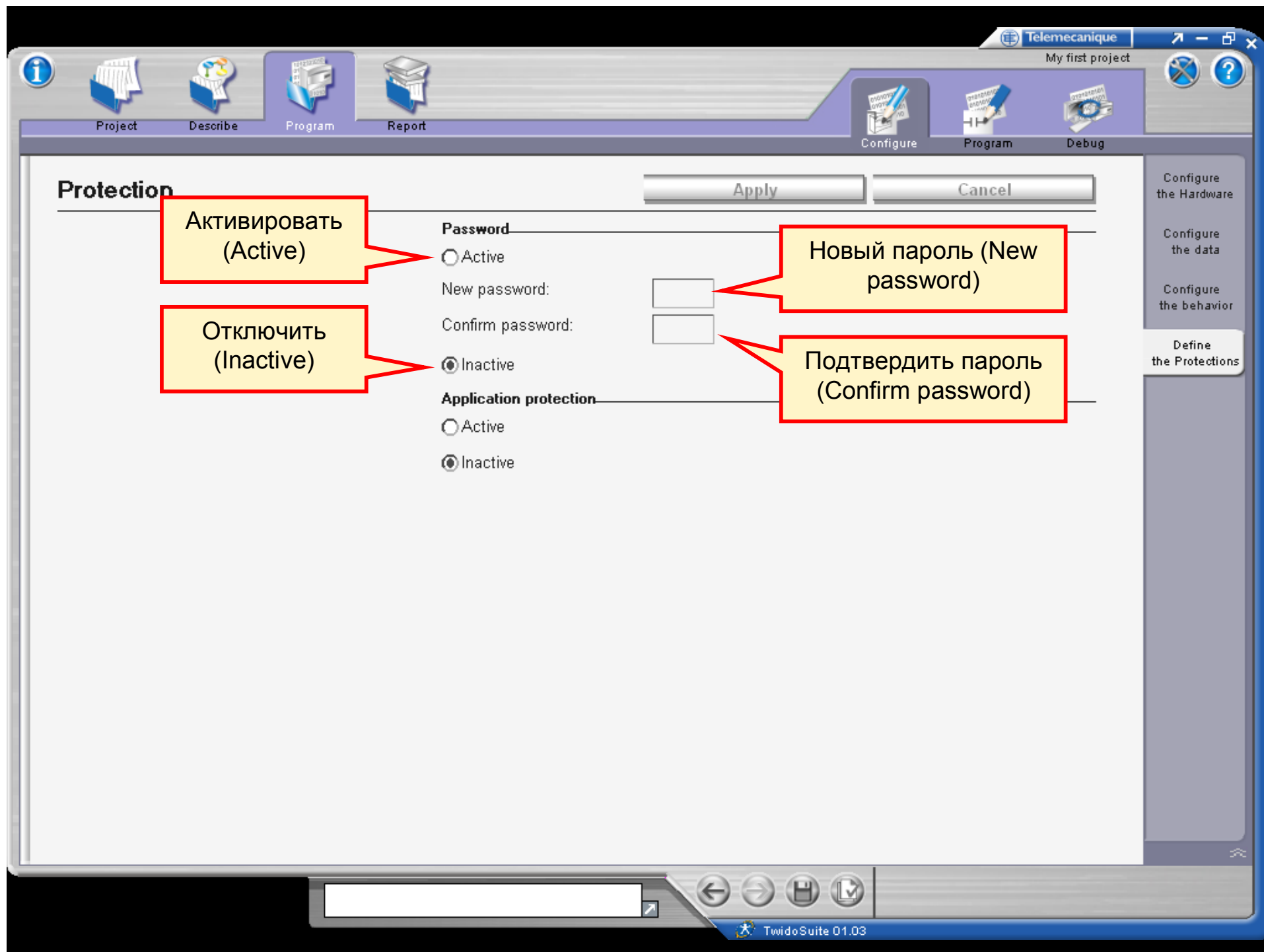


Конфигурирование защиты

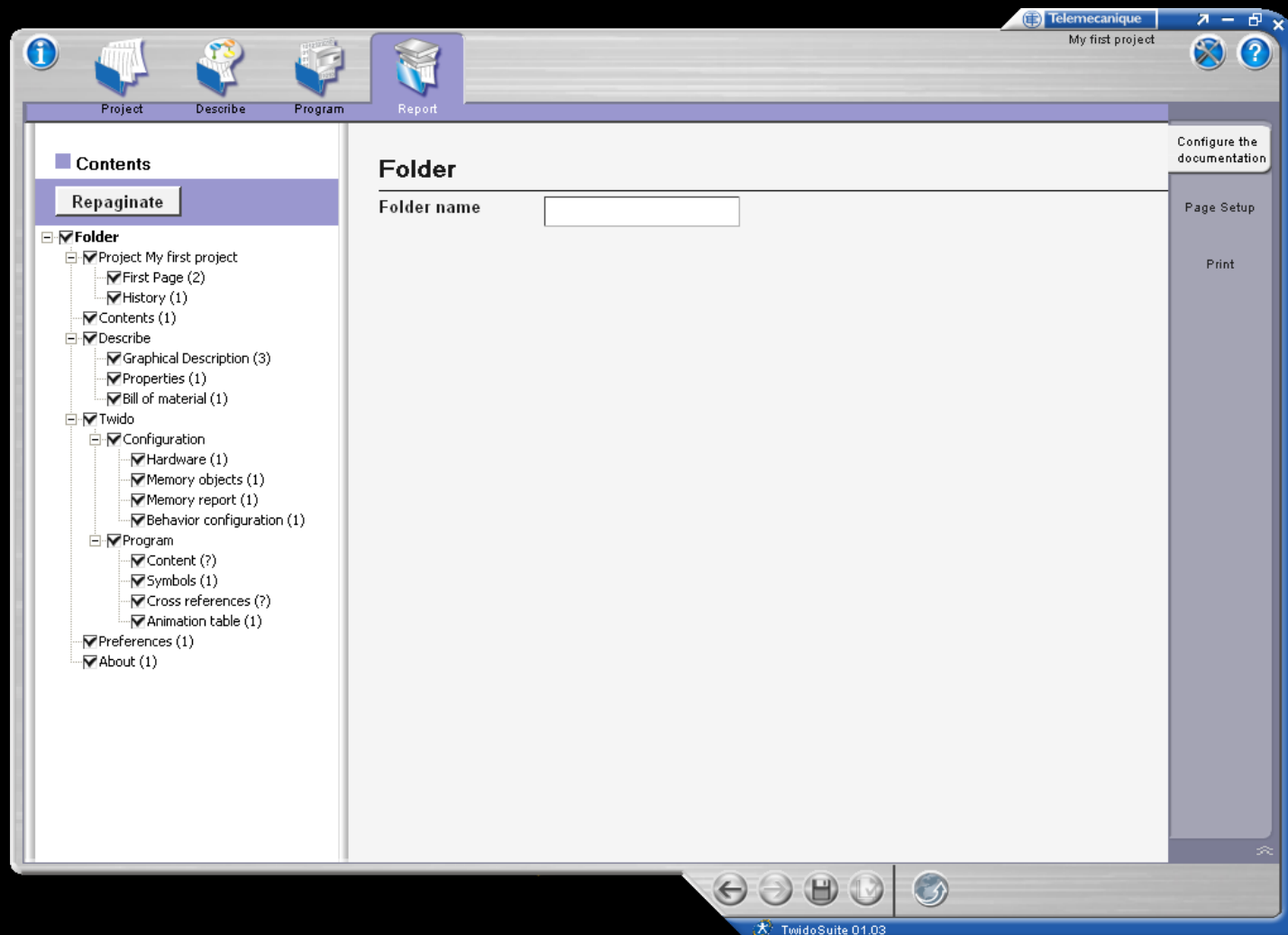


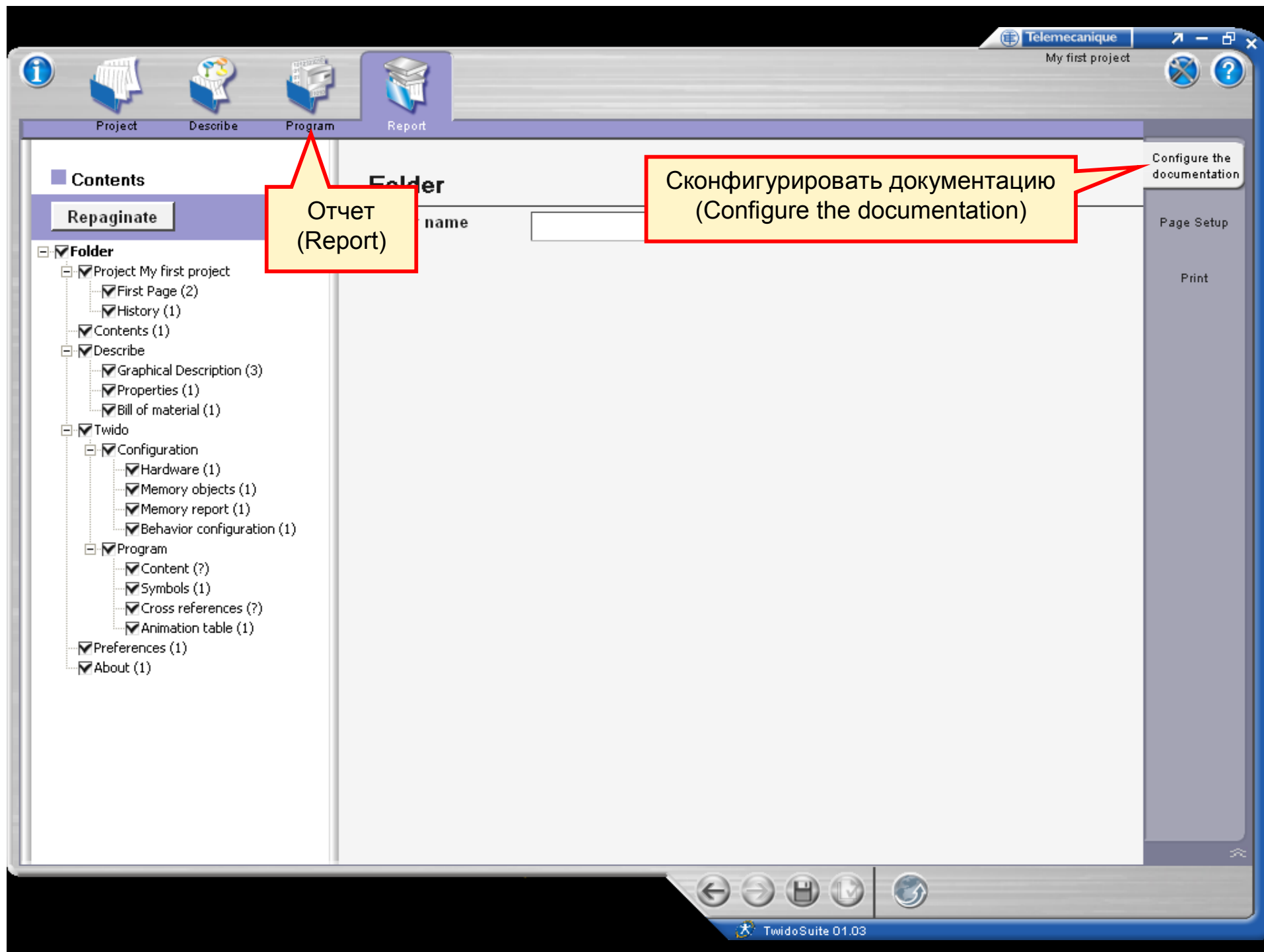


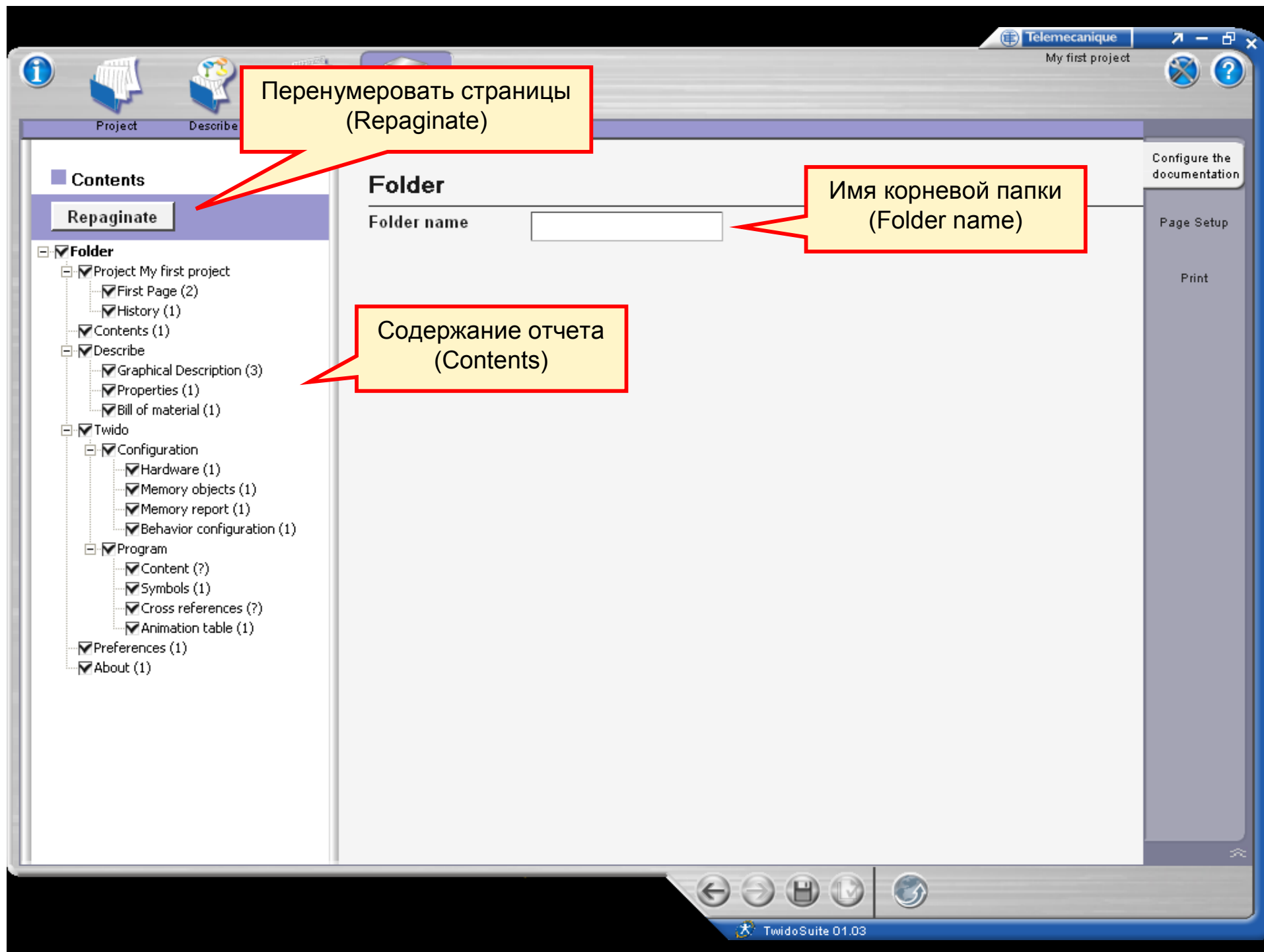


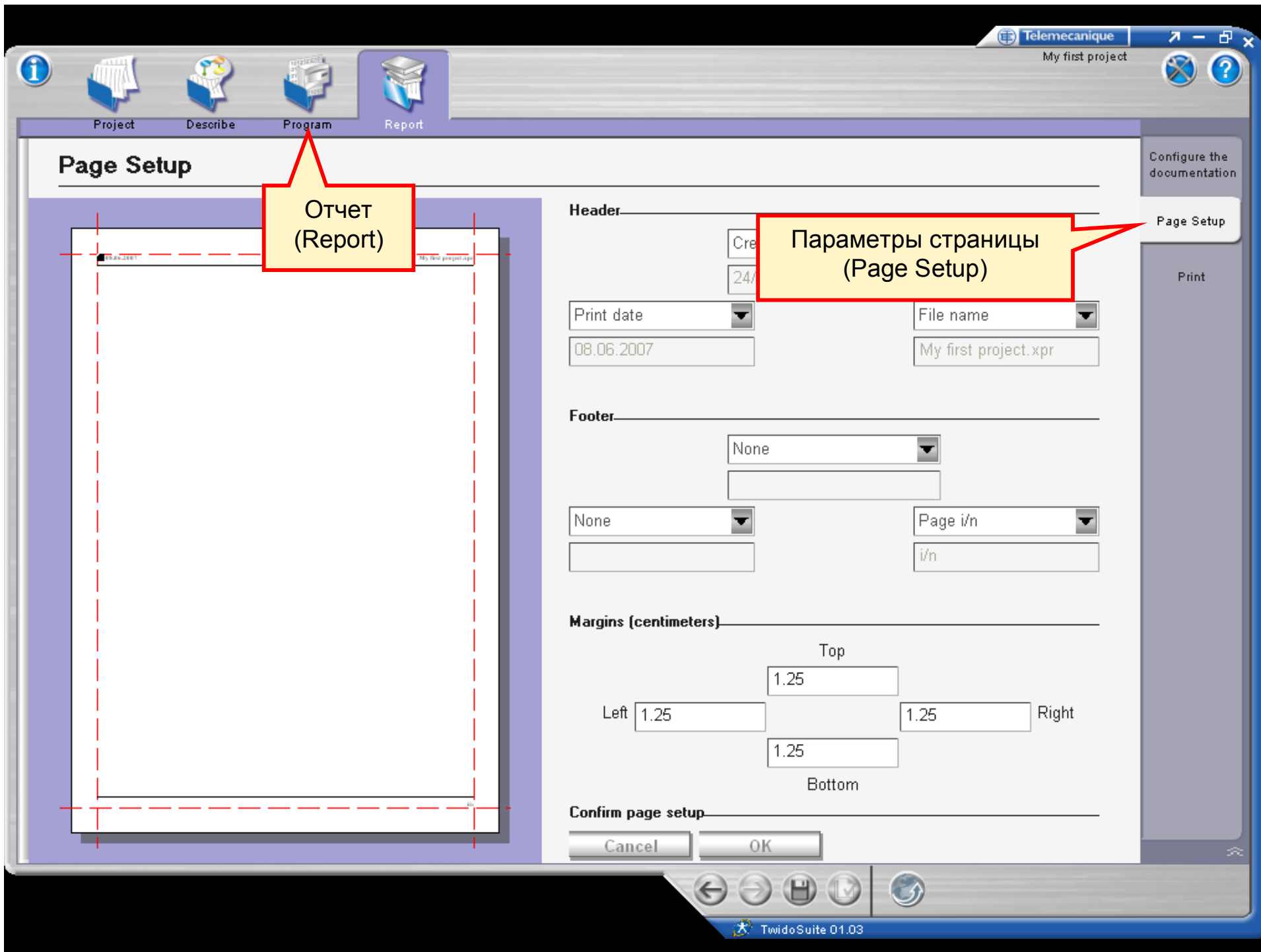


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