ACFA PSIM Installation Guide

ACFA PSIM 1.1

Last update 05/03/2024

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1 ACFA PSIM Installation Guide. Introduction

ACFA PSIM Installation Guide is a reference guide for installation and configuration specialists of the *ACFA PSIM* software package.

This Guide contains:

1. General information about *ACFA PSIM* software package.
2. Installing of *ACFA PSIM* software package.
3. Changing of *ACFA PSIM* software package.
4. Repairing of *ACFA PSIM* software package.
5. Updating of *ACFA PSIM* software package.
6. Removing of *ACFA PSIM* software package.

To get detailed information on how to configure and work with any *ACFA PSIM* integration module see the corresponding document of this integration module.

2 Hardware and software requirements

The hardware and software requirements for *ACFA PSIM* correspond to the similar requirements for *Axxon PSIM* (basic) (see Requirements for base PCs).

3 General information about ACFA PSIM software package

3.1 Structure of the ACFA PSIM software package

ACFA PSIM software package contains following subsystems:

1. AxACFA.
2. Security Fire Systems (FSA).
3. Access Control Systems (ACS).
4. Combined AC/FA Systems.
5. Perimeter Intrusion Detection Systems (PIDS).
6. Control readers.
7. Application software (Service modules).
8. Geotracking systems.
9. Other detectors.
10. Security equipment.
11. Obsolete.

Each subsystem includes integration modules of corresponding devices. Service modules are modules designed to facilitate operation of integration modules.

3.2 Purpose of ACFA PSIM FSA, ACS and PIDS integration modules

Each FSA/ACS/PIDS system is a combination of software and hardware. The hardware is represented by a third-party manufacturer FSA/ACS/PIDS system integrated into the *ACFA PSIM* software package. The software consists of the integration modules which allow configuring the interaction between the *ACFA PSIM* software and the hardware.

The FSA, ACS and PIDS integration modules perform the following functions:

1. Configuring the interaction between the *ACFA PSIM* software and the FSA/ACS/PIDS hardware.
2. Processing the information incoming from the security panels, alarm sensors and other notifiers (if FSA functions are integrated).
3. Processing the information incoming from the readers, electromechanical locks and other tools of access control (if ACS functions are integrated).
4. Processing the information incoming from perimetral security sensors and sensors mounted on the object entry (if the PIDS functions are integrated).
5. Managing the alarm actuators and firefighting-related actuators, i.e. sound and light notifiers (if the FSA functions are integrated).
6. Managing the actuators – security lighting tools, tools of entry control, i.e. turnstiles, turnpikes, etc. (if the PIDS functions are integrated).
7. Managing the access-related actuators – devices for locking and unlocking gates (if the FSA functions are integrated).

3.3 Purpose of ACFA PSIM service modules

ACFA PSIM service modules are designed to facilitate operation of integration modules. The following modules are included:

1. *Access Manager.*
2. *Data Bridge.*
3. *Event Manager.*
4. *Temporary Access Levels Support.*
5. *User Import.*
6. *Time & Attendance.*

7. *Virtual Access Server.*

The detailed information about each module is presented in the corresponding documentation sections.

3.4 Operational architecture schemes available for some service modules

> **Note**
>
> The operational architecture schemes are available only for the following *ACFA PSIM* service modules:
> - Time and Attendance;
> - Event Manager;
> - Access Manager.

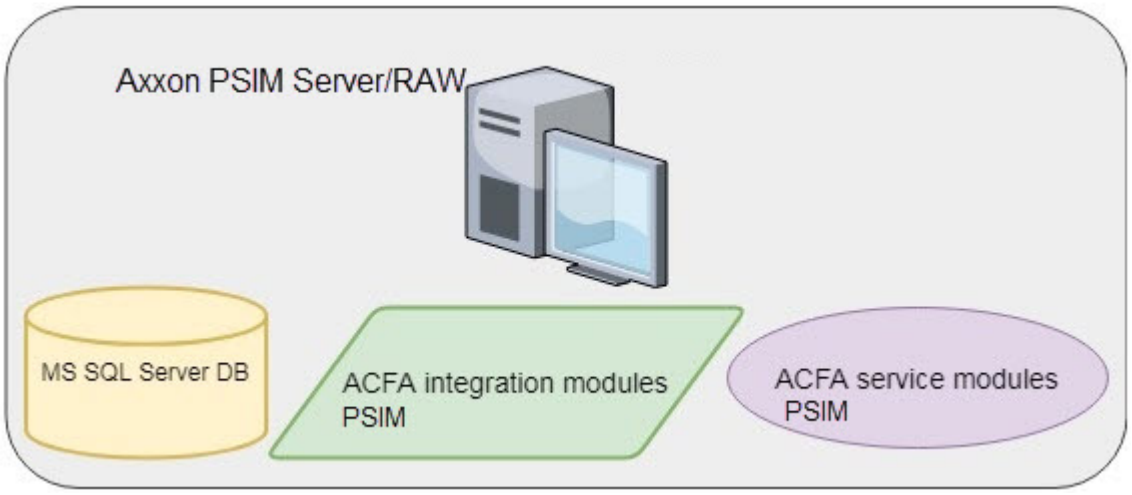
Three basic architectural schemes can be used:

1. Server with a local client – a single Server/RAW with the *ACFA PSIM* integration modules and service modules installed on it.
2. Multi-server architecture – several Servers/RAWs with the *ACFA PSIM* integration modules and service modules installed on each of them. In this case, service modules can be used on any of the Servers/RAWs.
3. Server with a remote client – one or more Servers/RAWs and Remote Clients. In this case, service modules are usually used on the Remote Client, and their primary configuration is performed on the Server/RAW.

3.4.1 Server with a local client

The 'Server with a local client' architectural scheme is a single Server/RAW with the *ACFA PSIM* integration modules and service modules installed on it. The data source is the MS SQL Server database. This architectural scheme is the easiest to set up, because service modules are created and configured only on one Server/RAW.

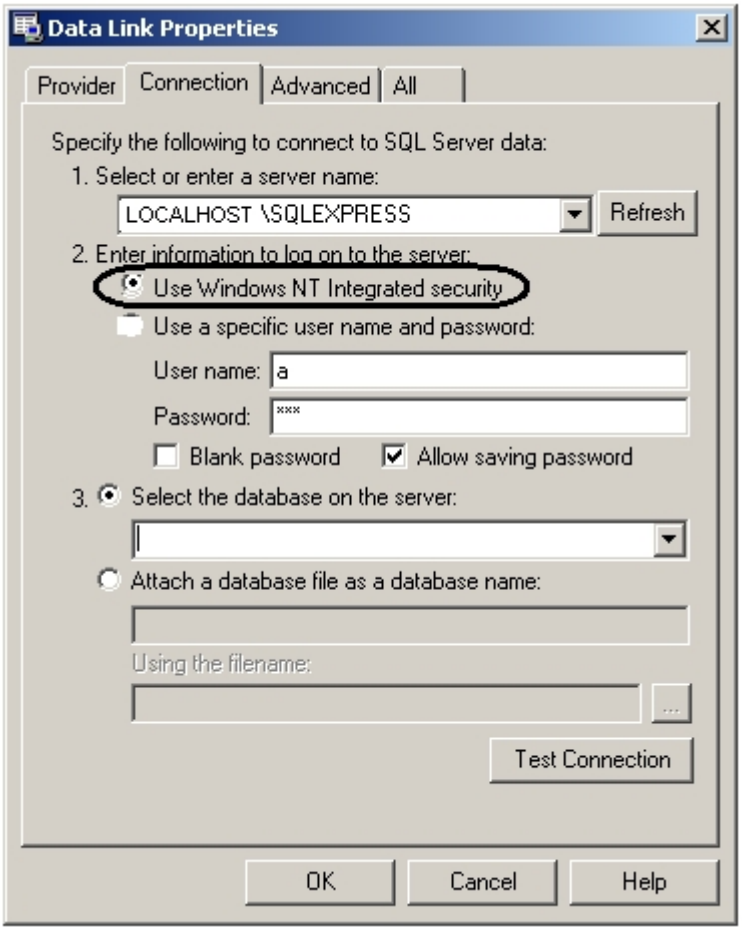
The model of the architectural scheme is presented below.



> **Note**
>
> This operational architecture scheme is available only for the following *ACFA PSIM* service modules:
> - Time and Attendance;
> - Event Manager;

- Access Manager.

If the 'Server with a local client' architectural scheme is used, then it is not necessary to specify a username and password when setting up a data source — the **Use Windows NT Integrated security** can be selected to log in to the Server.



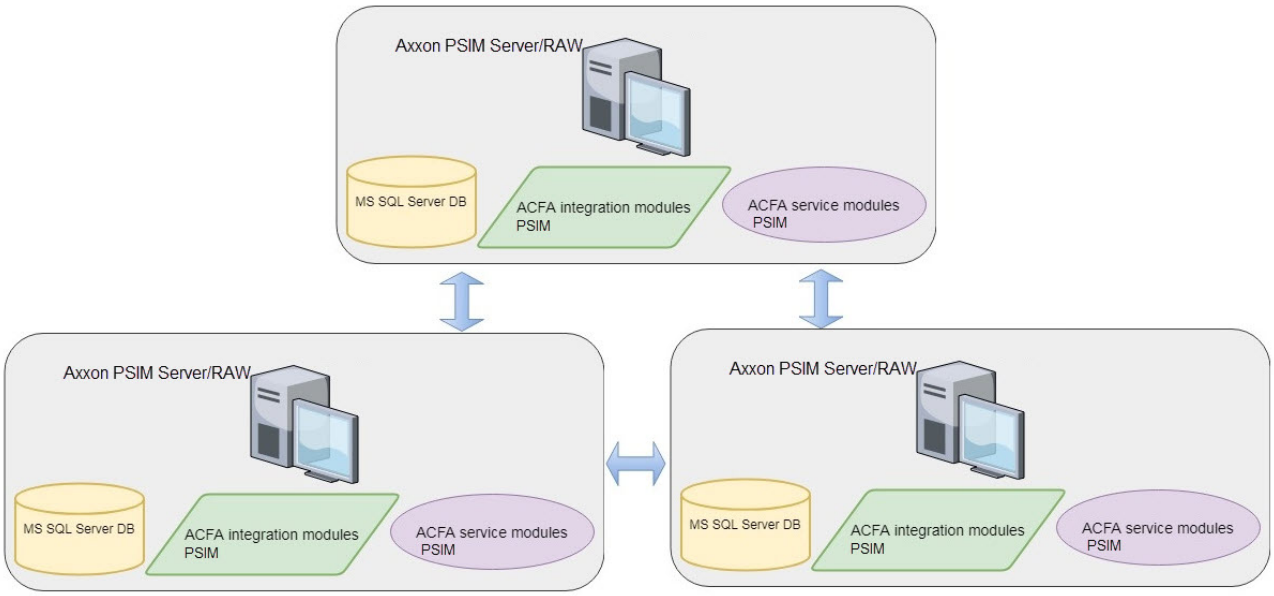
3.4.2 Multi-server architecture

The *'Multi-server architecture'* scheme includes several Servers/RAWs with the *ACFA PSIM* integration modules and service modules installed on each of them. In this case, service modules can be used on any of the Servers/RAWs.

The scheme includes the following necessary components:

1. A Server with the *ACFA PSIM* integration modules and service modules installed on it.
2. RAWs with the *ACFA PSIM* integration modules and service modules installed on each of them.
3. The MS SQL Server database.

The model of the architectural scheme is presented below.

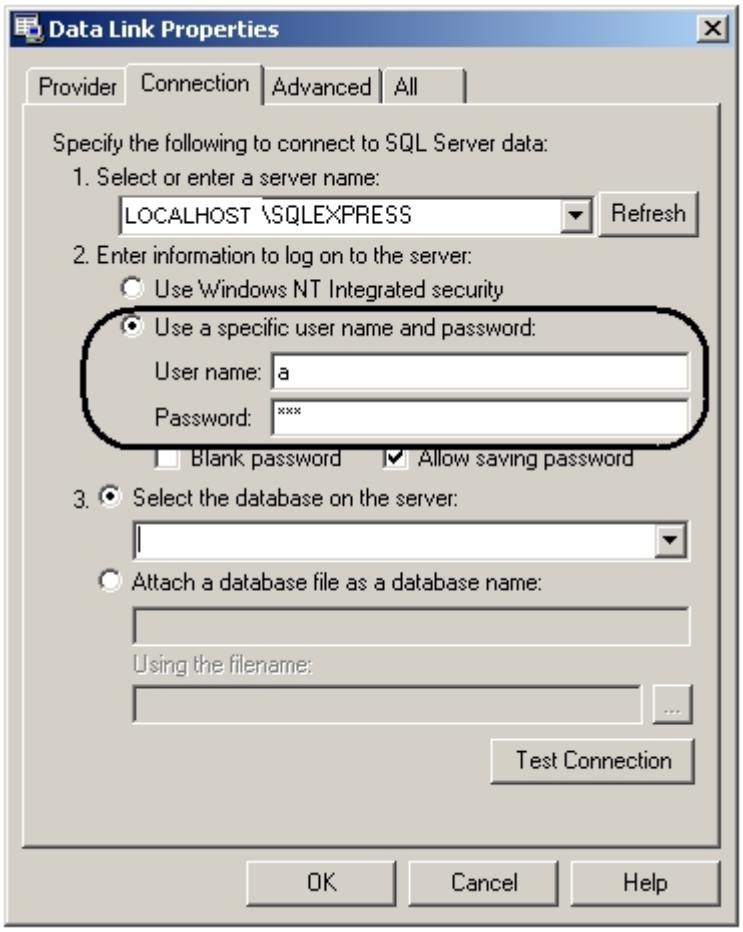


Note

This operational architecture scheme is available only for the following *ACFA PSIM* service modules:

- Time and Attendance;
- Event Manager;
- Access Manager.

When configuring the *Axxon PSIM* Server, it is necessary to specify a username and password to configure the database server login.



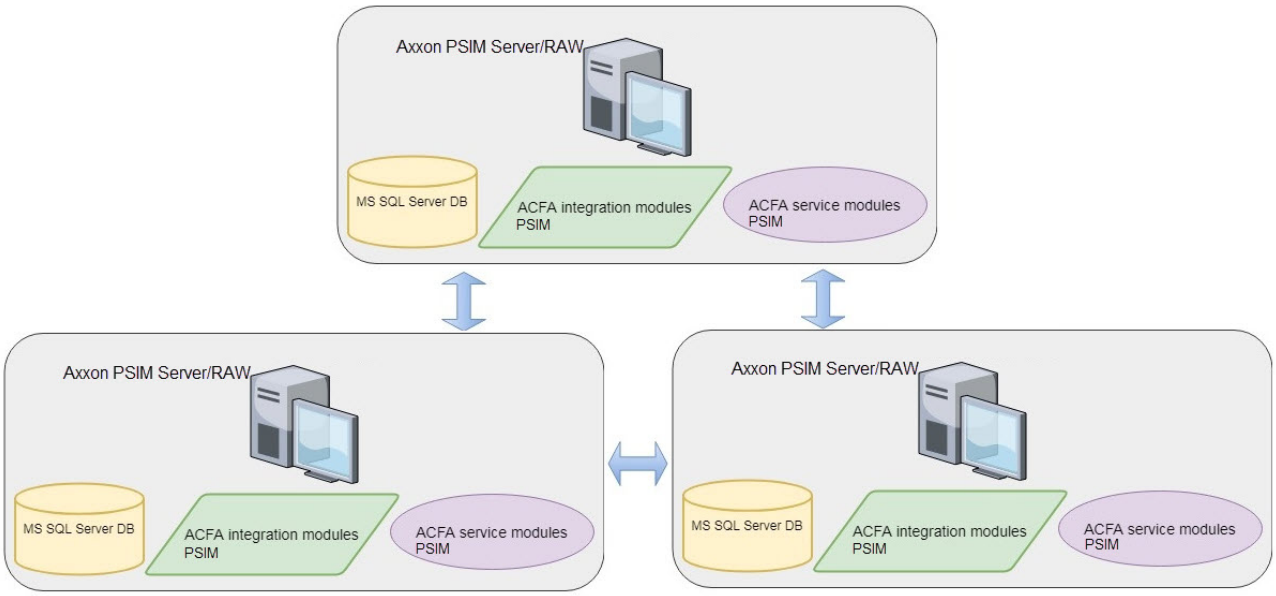
3.4.3 Server with a remote client

The *'Server with a remote client'* architectural scheme includes one or more Servers/RAWs and Remote Clients. In this case, service modules are usually used on the Remote Client, and their primary configuration is performed on the Server/RAW.

The scheme includes the following necessary components:

1. A Server with the *ACFA PSIM* integration modules and service modules installed on it.
2. RAWs and Remote Clients with the *ACFA PSIM* integration modules and service modules installed on each of them.
3. The MS SQL Server database.

The model of the architectural scheme is presented below.



Note

This operational architecture schemes is available only for the following ACFA PSIM service modules:

- Time and Attendance;
- Event Manager;
- Access Manager.

When configuring the *Axxon PSIM* Server, it is necessary to specify a username and password to configure the database server login in the same way as for the *'Multi-server architecture'* scheme (see Multi-server architecture).

4 Installing, removing and changing of ACFA PSIM software package

4.1 General description of ACFA PSIM distribution kit

ACFA PSIM is supplied as a software installation package (distribution kit). The current version of the distribution kit can be downloaded from the official AxxonSoft website.

The distribution kit contains all the necessary software components for installing *ACFA PSIM* on a base computer.

The distribution kit allows you to install, restore, and remove *ACFA PSIM*.

Attention!

- Prior to installing, restoring or removing *ACFA PSIM*, the *Axxon PSIM* operation should be shut down.
- Administrator rights are required for installing, restoring or removing *ACFA PSIM*.

4.2 Installation of ACFA PSIM

ACFA PSIM is installed as a part of *Axxon PSIM*.

Attention!

ACFA PSIM should be installed on both the **Server/Remote Administrator's workstation (RAW)** and the **Client** (for details, see Axxon PSIM software. Administrator's Guide).
In a distributed security system, both integration and service modules of *ACFA PSIM* should be installed on all computers where they will be used and configured (Server, RAW, Client). *ACFA PSIM* versions must be the same on all computers within the distributed system. For more details on how to install and configure base *Axxon PSIM* software for distributed architecture, refer to Axxon PSIM software. Administrator's Guide.

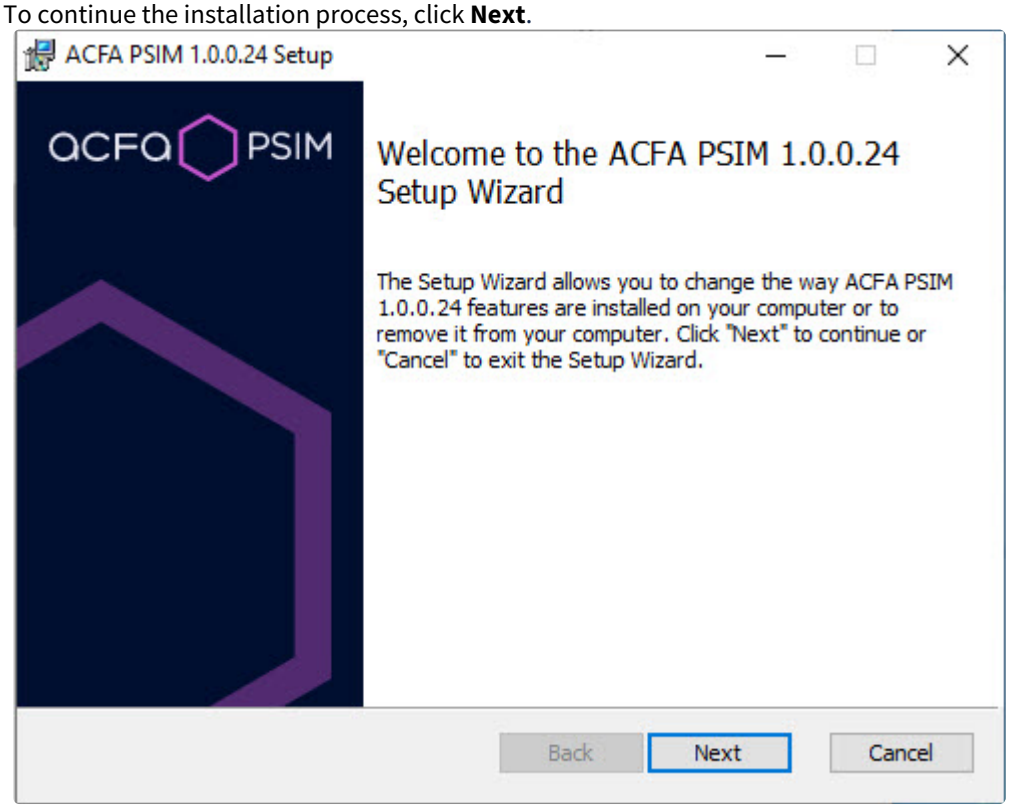
Note

When installed on Server or RAW, *ACFA PSIM* provides functions for configuration, control and monitoring. On the Client the modules are required for control and monitoring.

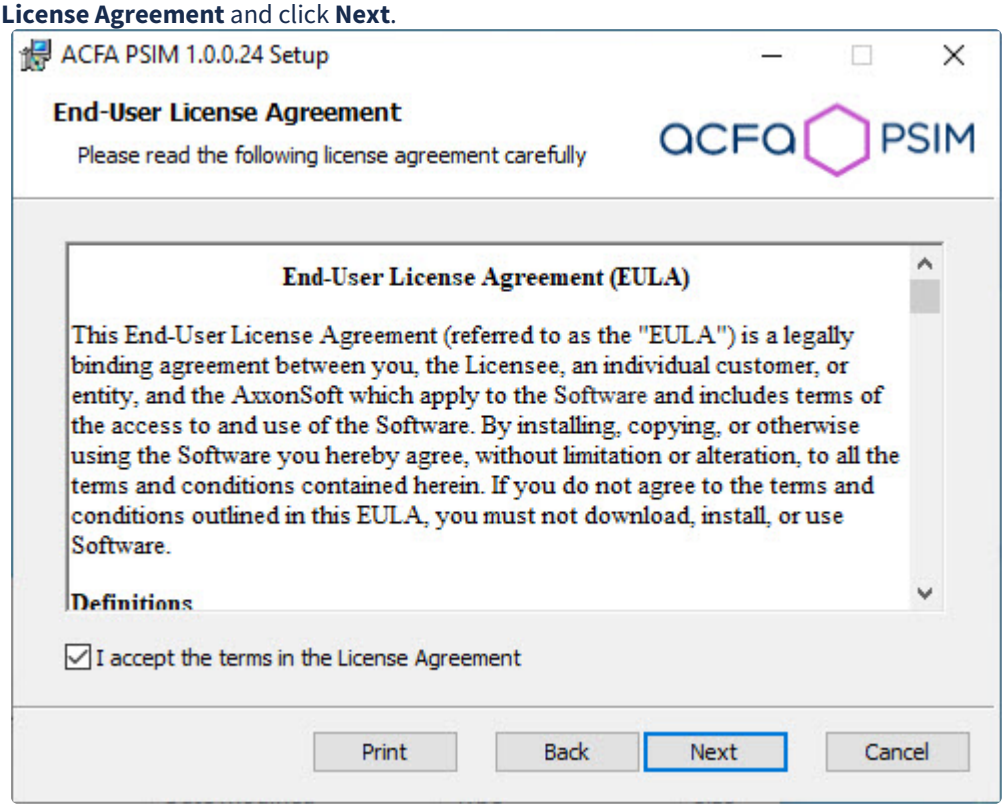
To install *ACFA PSIM*, do the following:

1. In the root directory of the distribution package, run the setup.exe executable file.

2. To continue the installation process, click **Next**.

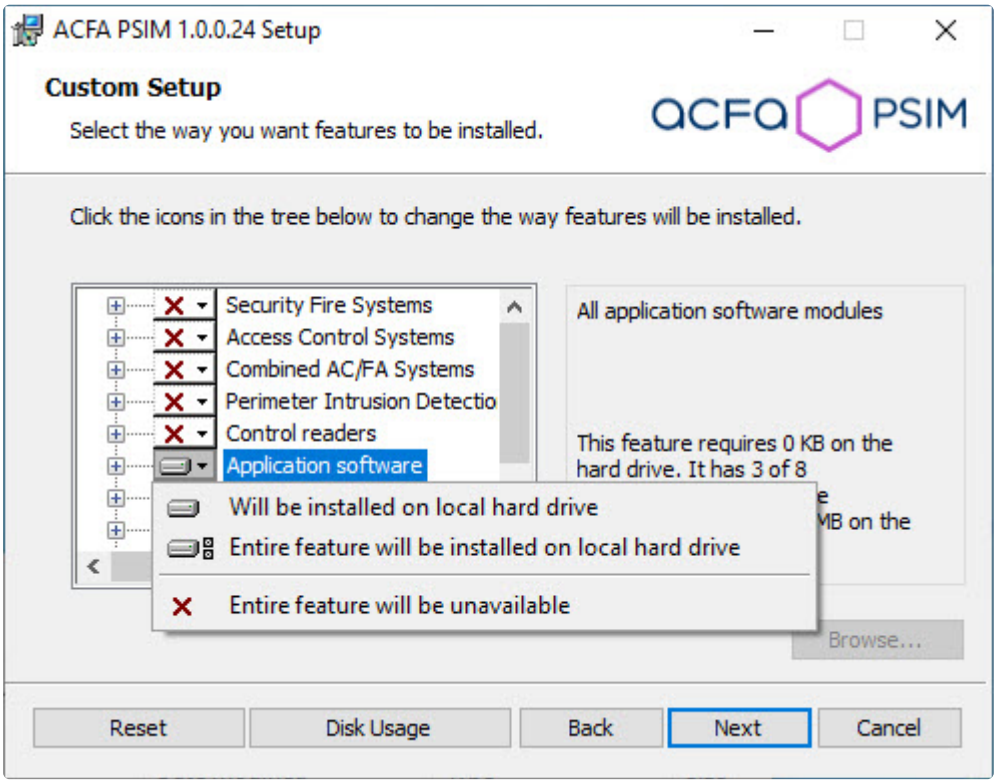


3. Read the terms of the license agreement carefully. Then set the radio button to **I accept the terms of the License Agreement** and click **Next**.

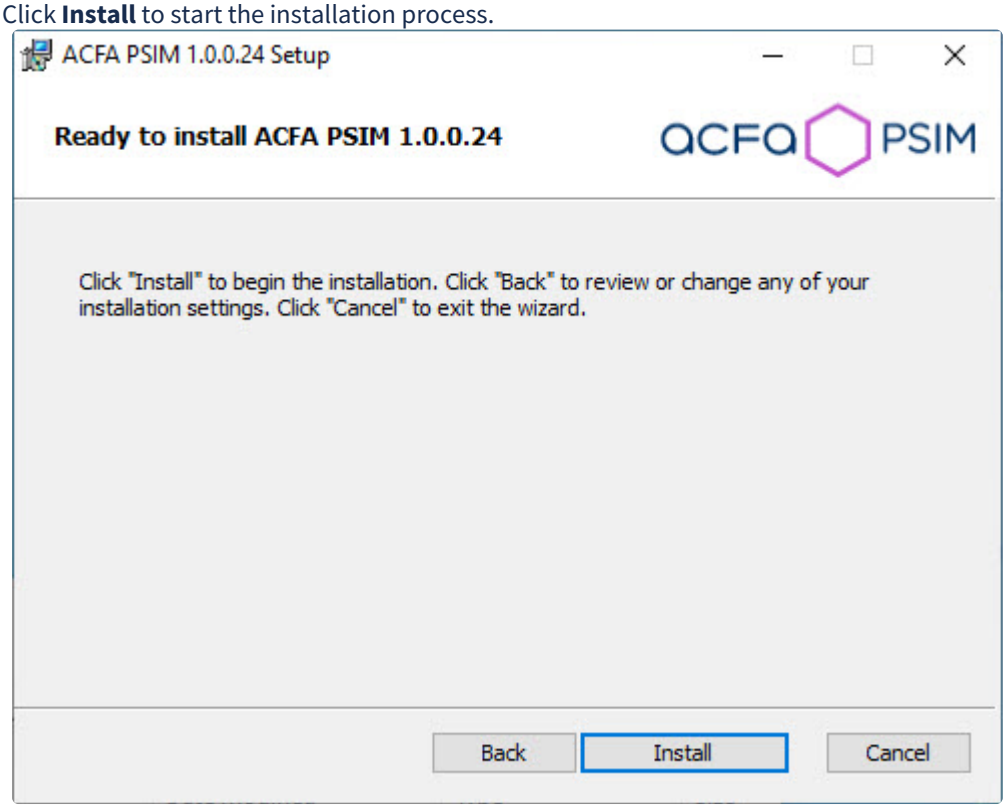


4. In the **Custom Setup** dialog window, select modules which are to be installed. To install module or *ACFA PSIM* subsystem, select the **Entire feature will be installed on local hard drive** item. To accept all changes and continue installation process, click the **Next** button.

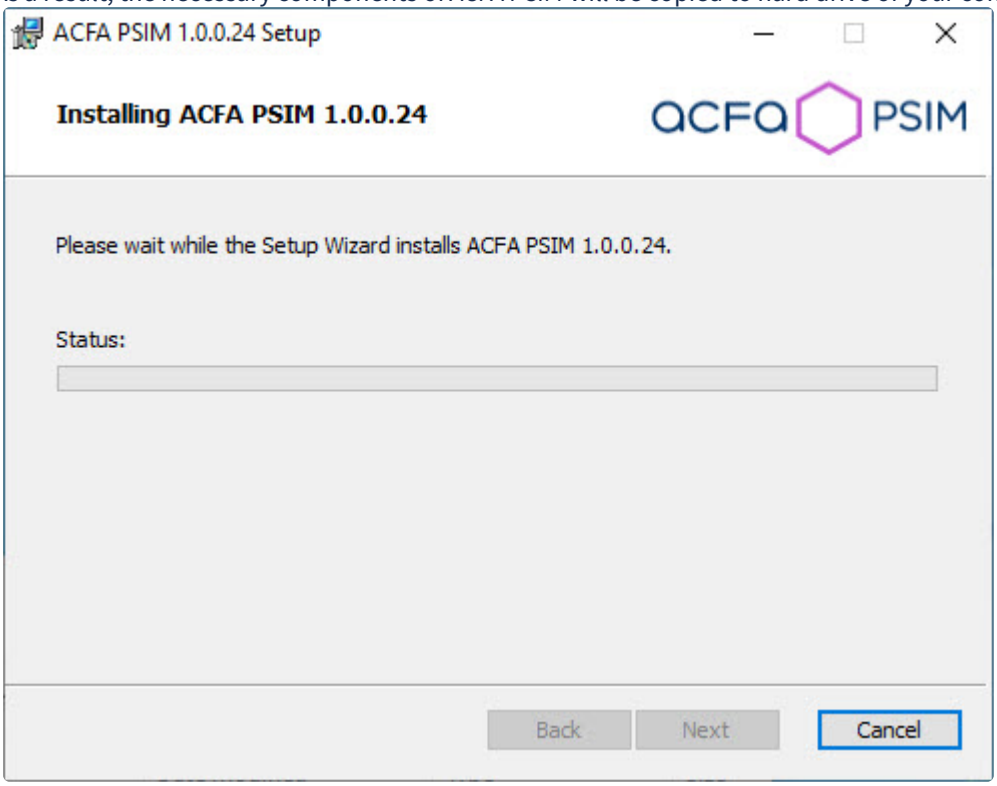
> **Note**
>
> When you select a component in the list, the area on the right displays information about this component and the amount of disk space required to install it.



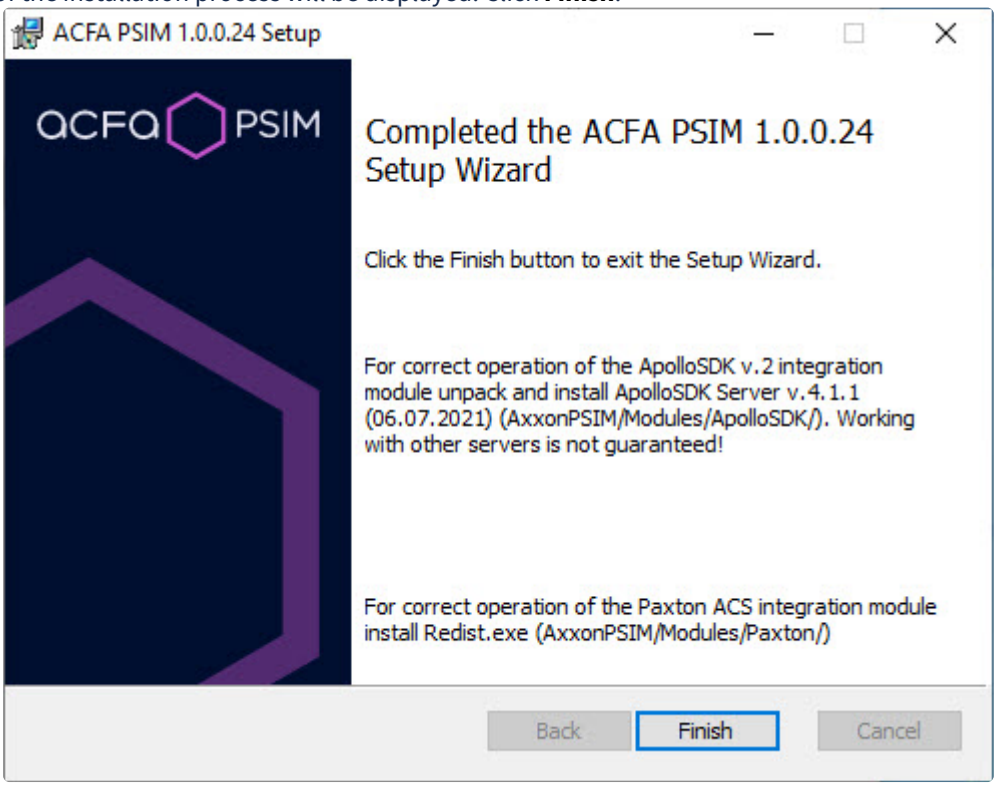
5. Click **Install** to start the installation process.



6. As a result, the necessary components of *ACFA PSIM* will be copied to hard drive of your computer.



7. After all software components are successfully copied on your hard drive, the message about the completion of the installation process will be displayed. Click **Finish**.



ACFA PSIM installation is finished.

> **Note**
>
> After the *ACFA PSIM* is installed it is recommended to update the DB structure using the idb.exe utility located in the *Axxon PSIM* software directory. Database updating is performed by clicking the **Update database** button in the utility window.

After *ACFA PSIM* is installed, some modules may require additional actions or installation of additional software. A description of the installation features for such modules is given in the subsections below.

> **Attention!**
>
> To use the integration modules that are included in the **Security Equipment** component, it is necessary to install the following software:
> - The *Drivers Pack* driver package (download the distribution package here: Drivers Pack);
> - The Internet Explorer browser version 11 or higher.

4.2.1 Installation of the Time and Attendance module

The *Time and Attendance* module is a part of the *ACFA PSIM* software. For the correct module operation, after the *ACFA PSIM* installation, it is necessary to update the database using the updateDB.exe utility (for details see the page Appendix 2. The UpdateDB Utility).

Help

Configuring the Worktime subsystem
Working with the Time and Attendance subsystem

4.2.2 Installation of the ORC Wrapper integration module

The *ORC Wrapper* integration module is a part of the *ACFA PSIM* software. For the correct module operation, after the *ACFA PSIM* installation, do the following:

1. Go to the *Axxon PSIM* software installation directory\Modules\ORCServer.
2. Start the setup.exe executive file and install the required components.

The *ORC Wrapper* integration module is installed.

4.2.3 Installation of the ApolloSDK integration module

Installation of the *ApolloSDK* integration module is performed after completion the installation of the *ACFA PSIM* software package. To install the *ApolloSDK* integration module, do the following:

1. Unpack the **ApolloSDK v.4.1.1 (14.09.2023) Installer** archive which is located in the *Axxon PSIM* software installation directory\Modules\ApolloSDK.
2. Run the **ApolloSDK v.4.1.1 (14.09.2023) Installer\ApolloSDKSetup.exe** executive file to install the *Apollo* server.

Attention!

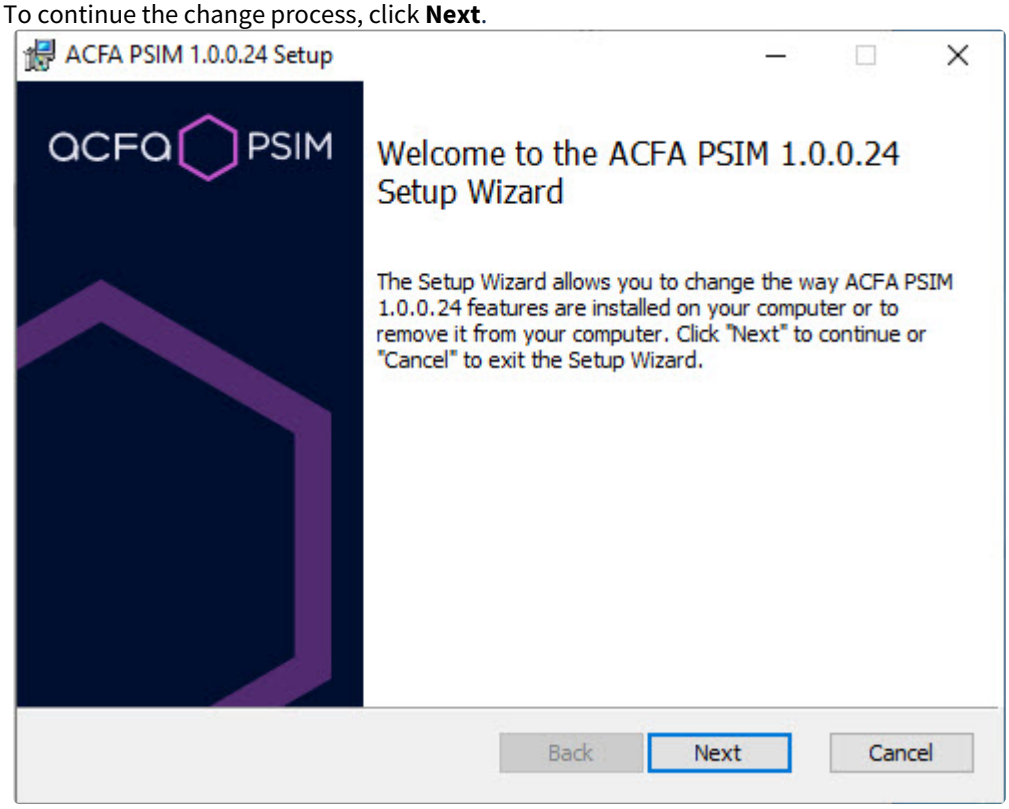
Functioning of the *ApolloSDK* with other servers is not guaranteed.

4.3 Changing the ACFA PSIM software package

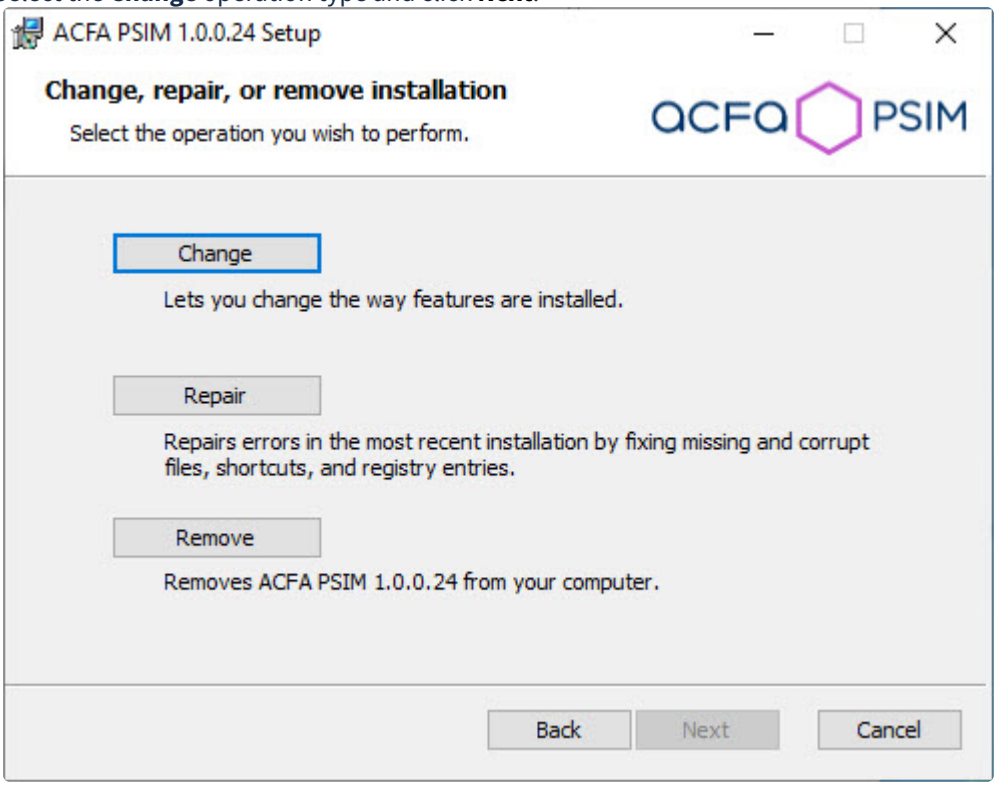
To add or remove some *ACFA PSIM* components, do the following:

1. In the root directory of the distribution package, run the setup.exe executable file

2. To continue the change process, click **Next**.



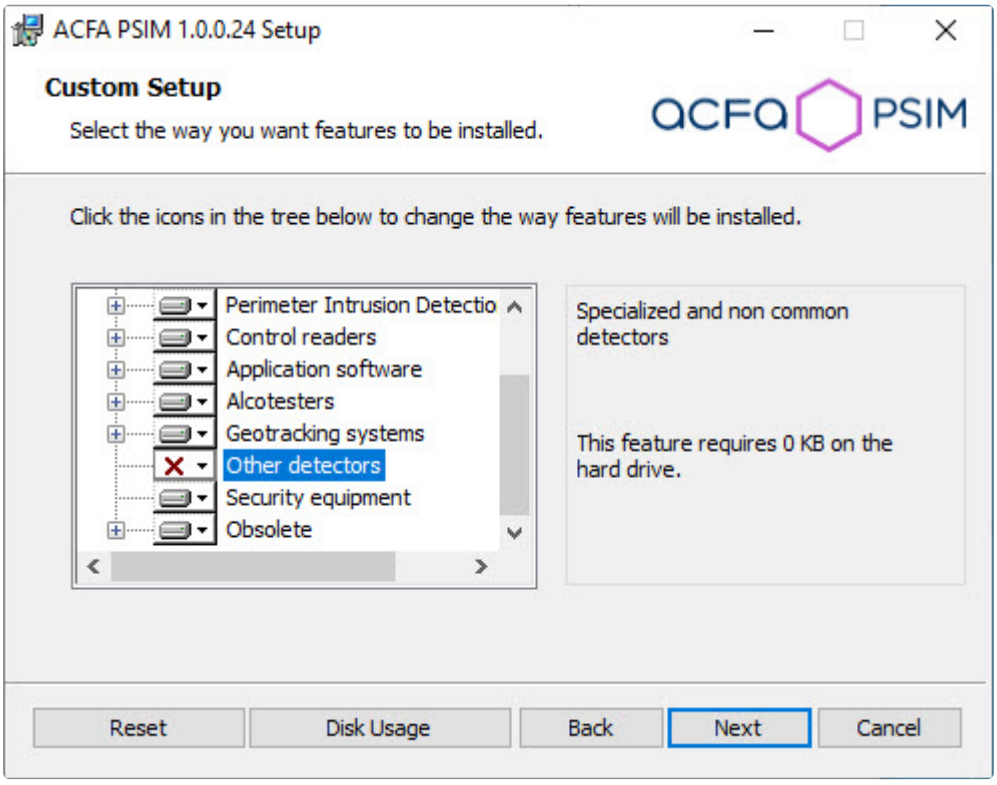
3. Select the **Change** operation type and click **Next**.



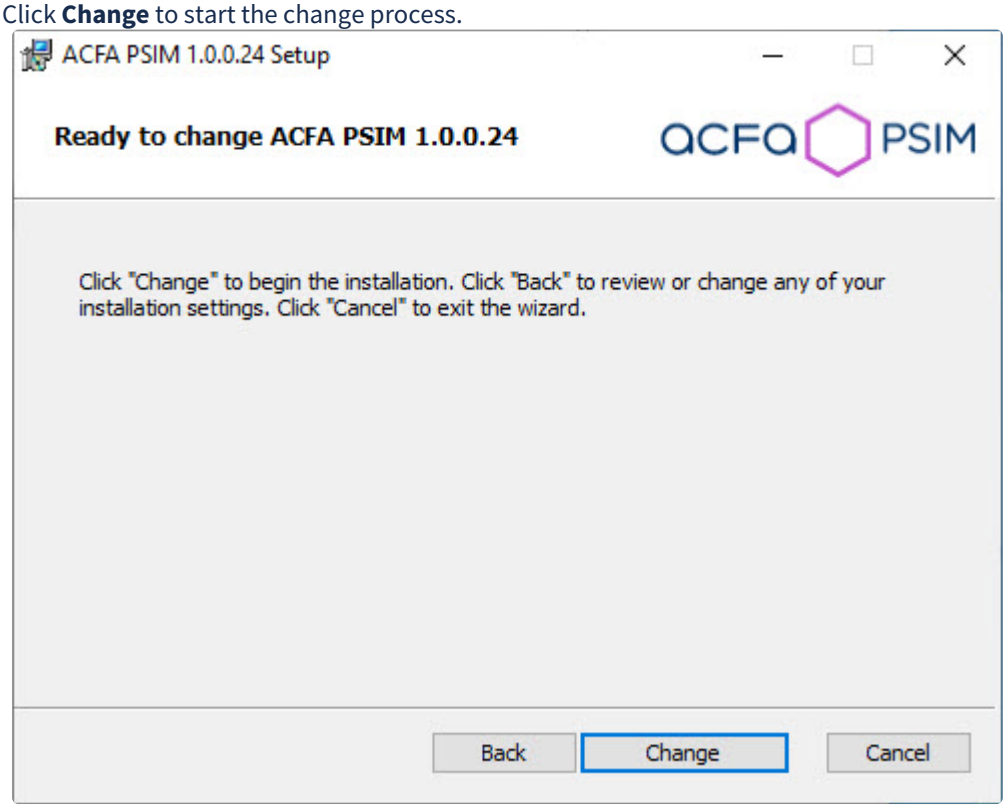
4. In the opened **Custom Setup** window, select components which are to be installed or removed. To install module or *ACFA PSIM* subsystem, select the **Entire feature will be installed on local hard drive** item. To

remove component, select the **Entire feature will be unavailable** item. When all required components are selected, click the **Next** button.

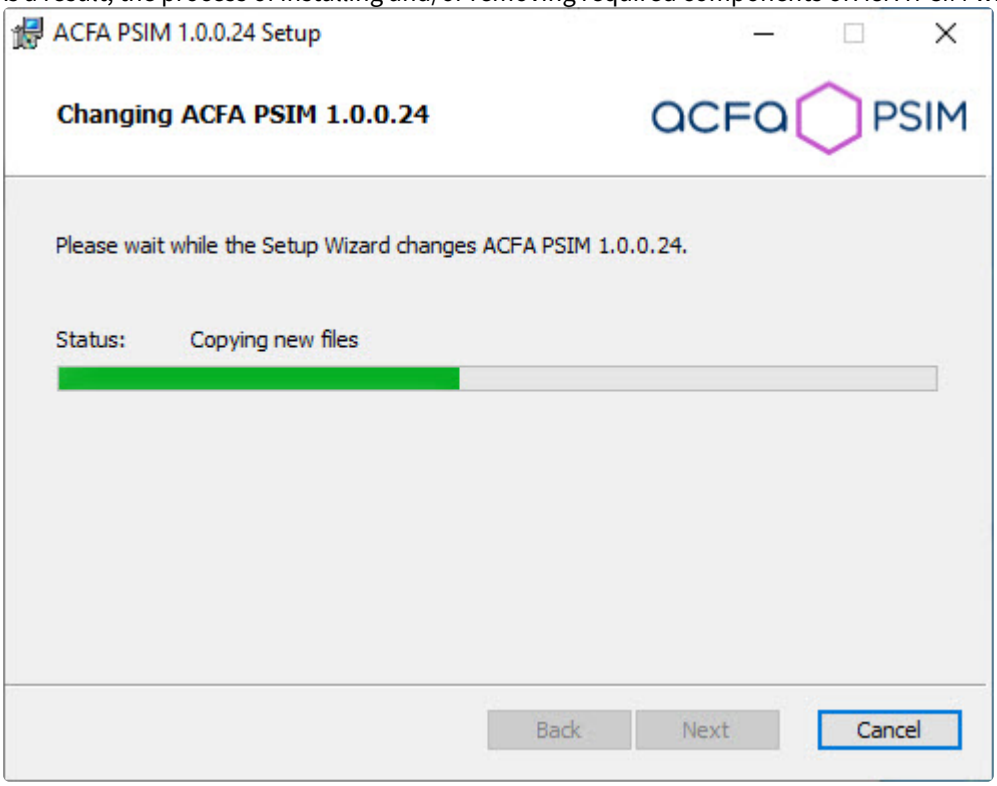
> **Note**
>
> When you select a component in the list, the area on the right displays information about this component and the amount of disk space required to install it.



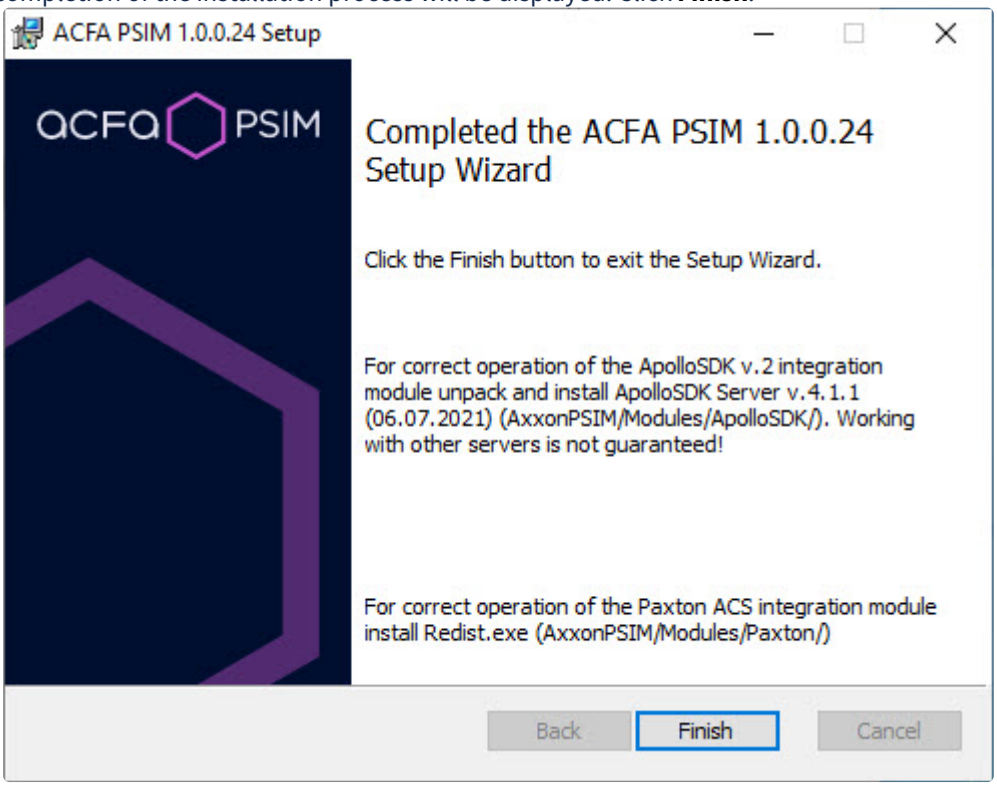
5. Click **Change** to start the change process.



6. As a result, the process of installing and/or removing required components of *ACFA PSIM* will start.



7. After all software components are successfully copied/removed on your hard drive, the message about the completion of the installation process will be displayed. Click **Finish**.



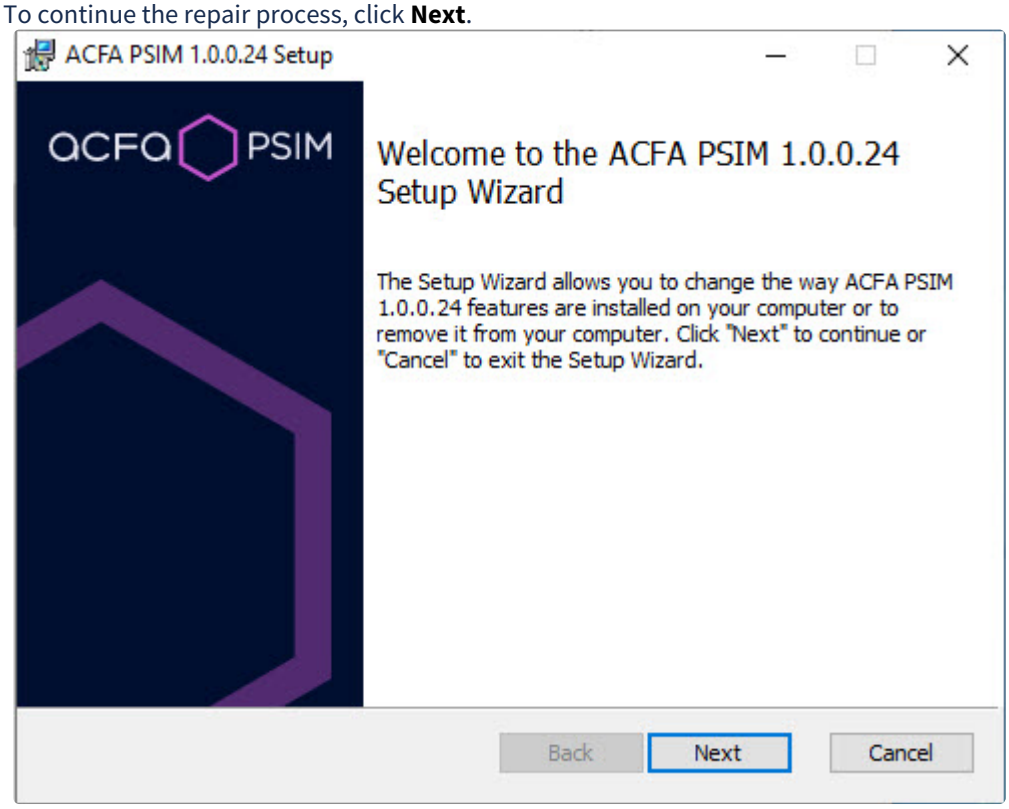
Change of *ACFA PSIM* software package is completed.

4.4 Repairing of the ACFA PSIM software package

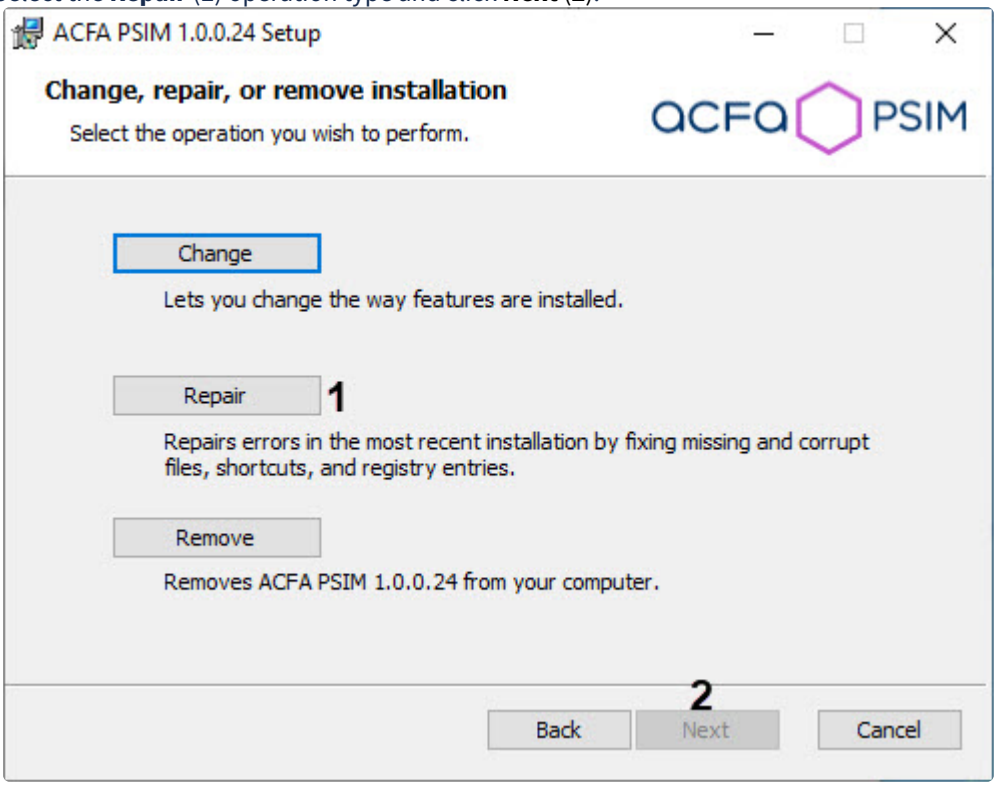
To correct mistakes occurred after the *ACFA PSIM* installation by repair failing files, tags and registry entries, do the following:

1. In the root directory of the distribution kit, run the setup.exe file.

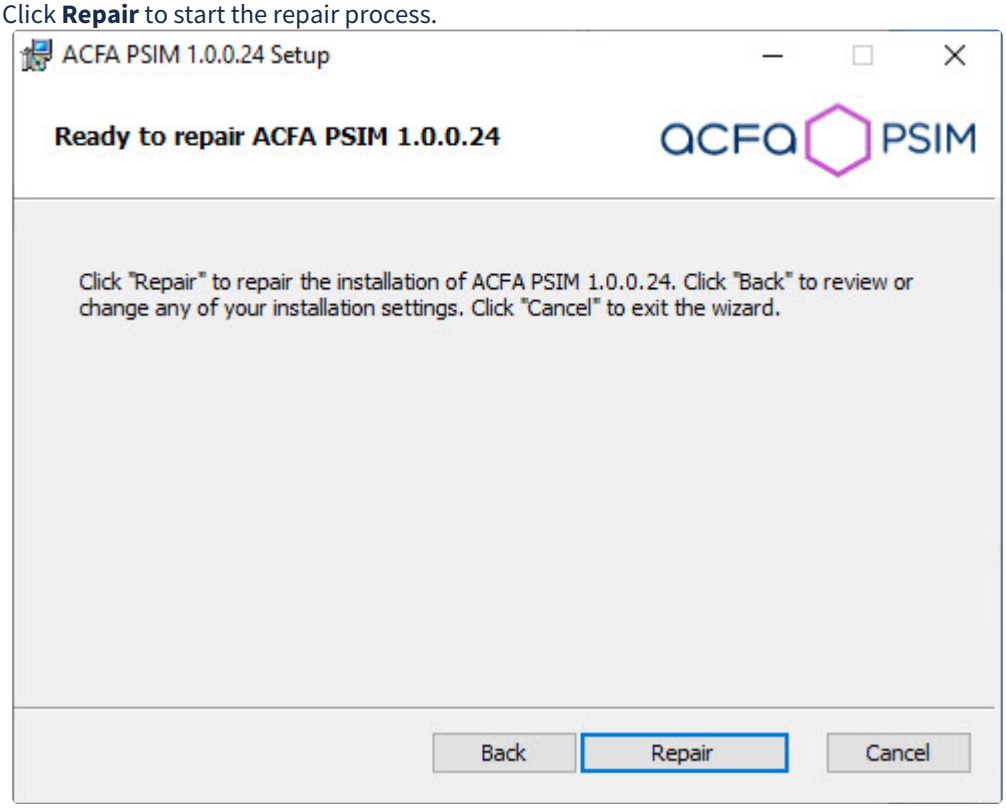
2. To continue the repair process, click **Next**.



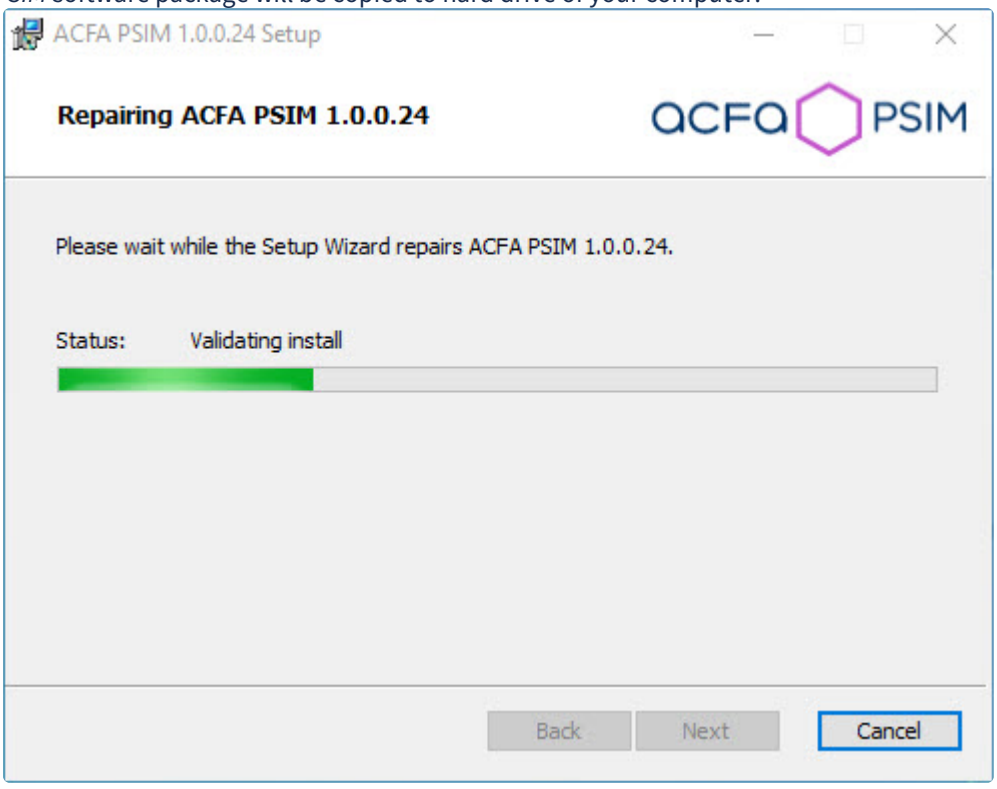
3. Select the **Repair** (**1**) operation type and click **Next** (**2**).



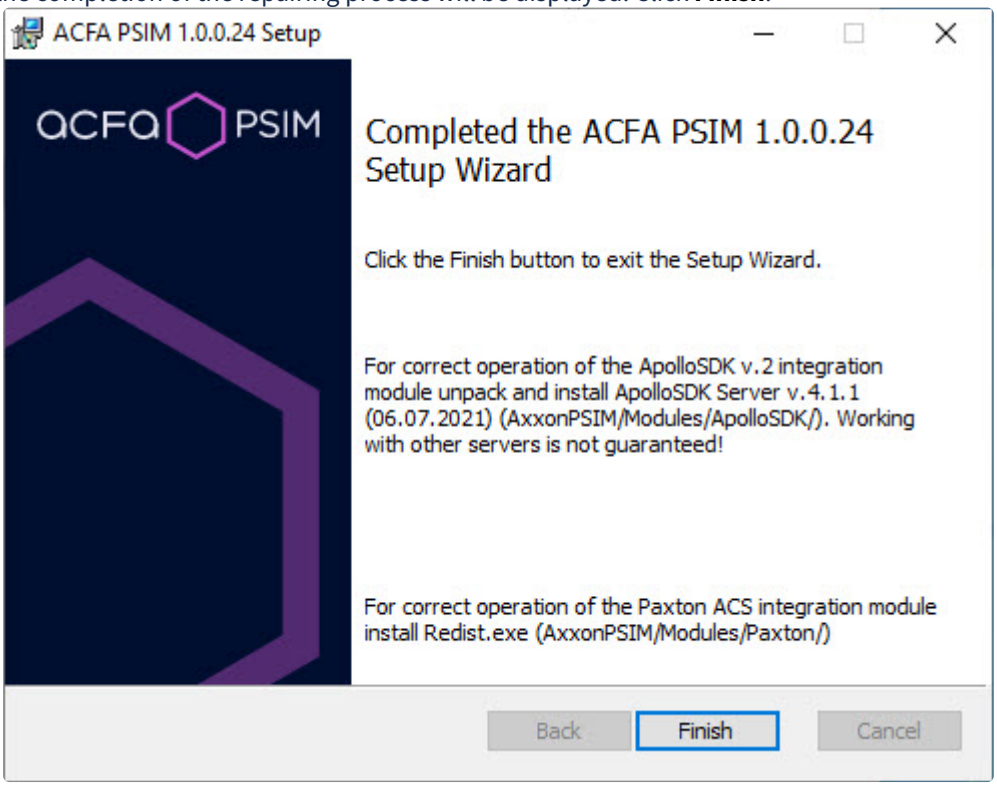
4. Click **Repair** to start the repair process.



5. As a result, the installed components will be checked and the necessary components of the *ACFA PSIM* software package will be copied to hard drive of your computer.



6. After all software components are successfully copied on your hard drive, the message about the completion of the repairing process will be displayed. Click **Finish**.



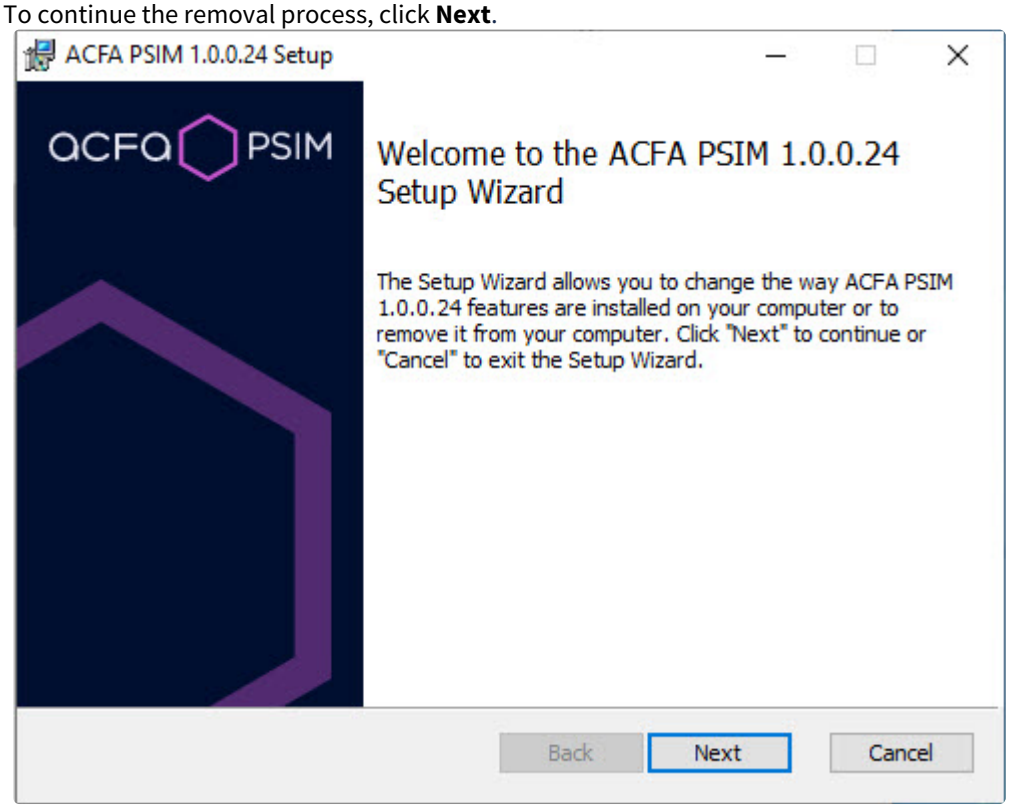
Repairing of the *ACFA PSIM* software package is completed.

4.5 Removing of the ACFA PSIM software package

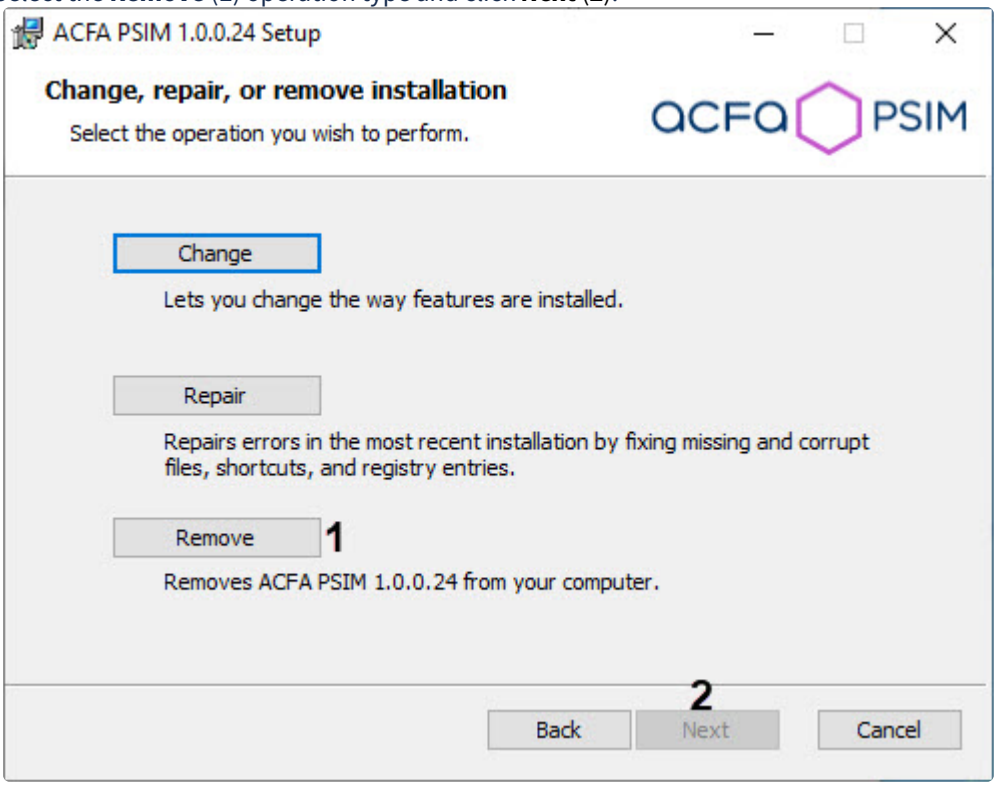
To remove *ACFA PSIM* software package, do the following:

1. In the root directory of the distribution package, run the setup.exe executable file

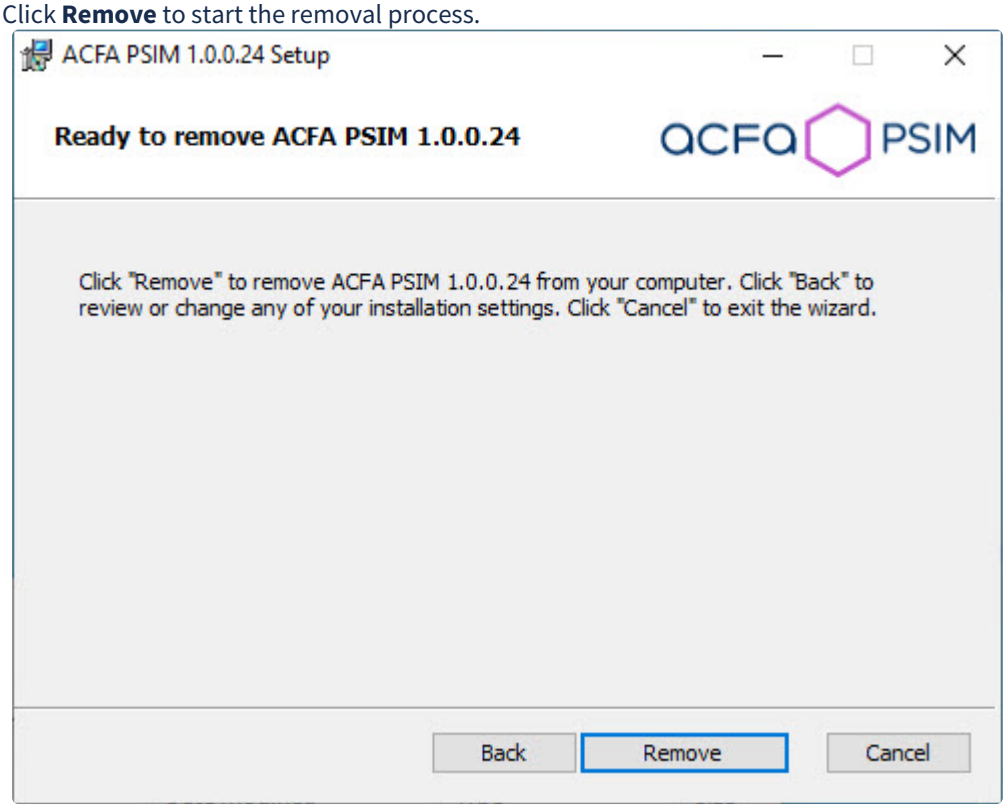
2. To continue the removal process, click **Next**.



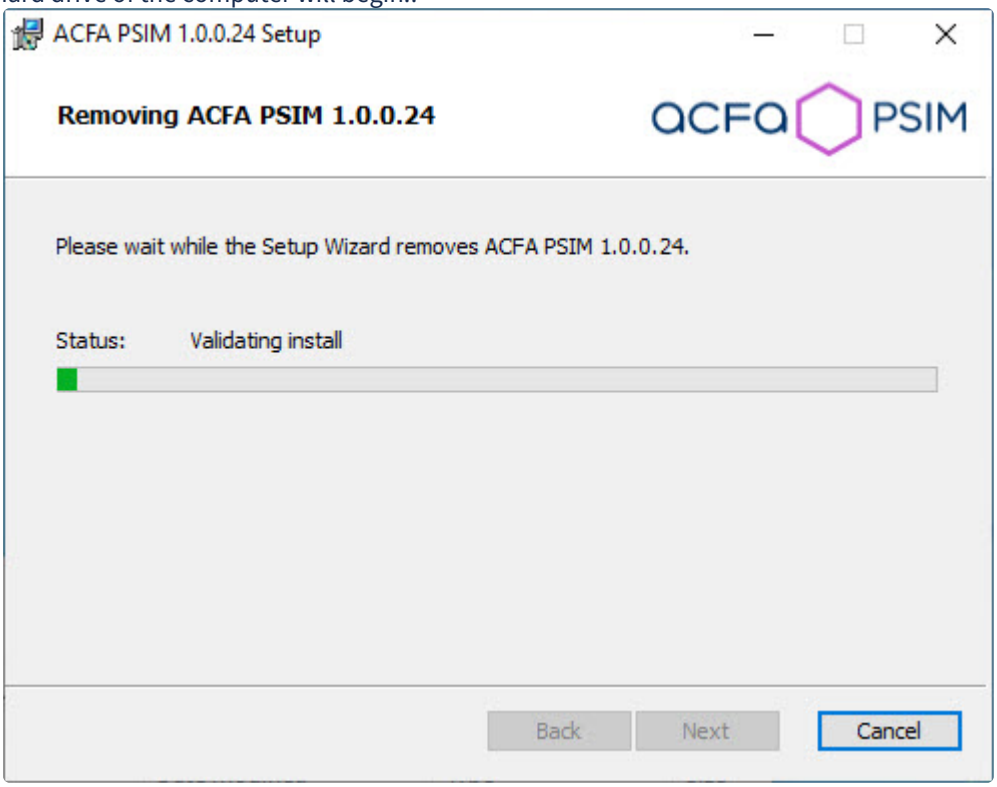
3. Select the **Remove** (**1**) operation type and click **Next** (**2**).



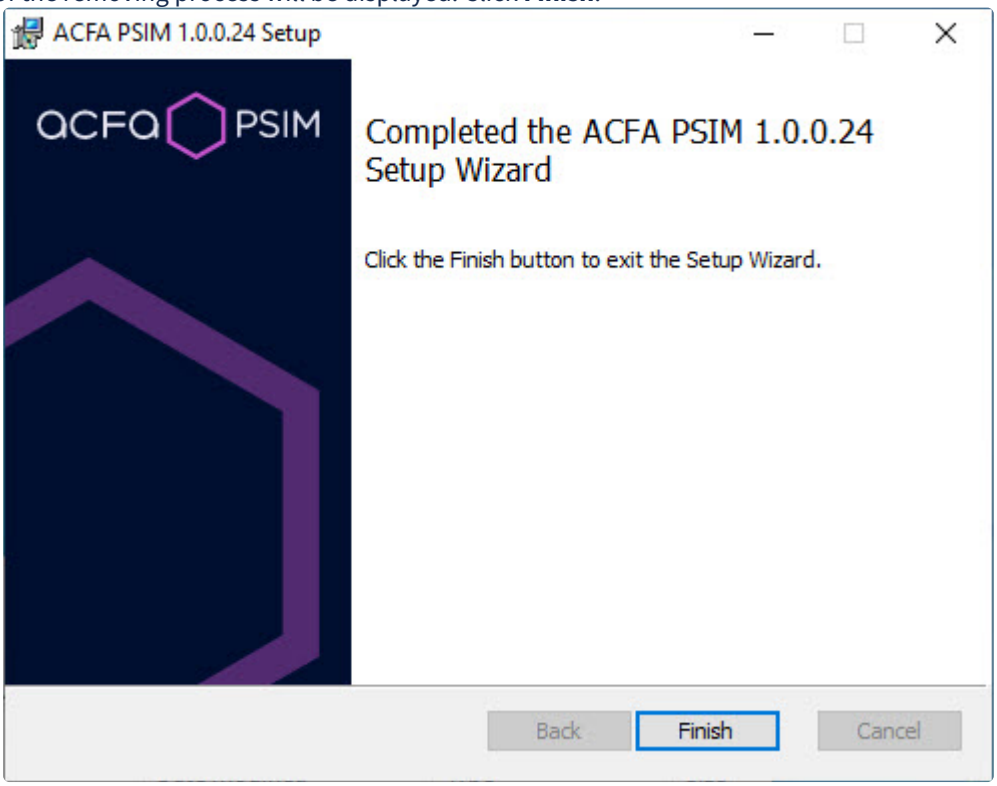
4. Click **Remove** to start the removal process.



5. As a result, the process of removing the installed components of the *ACFA PSIM* software package from the hard drive of the computer will begin..



6. After all software components are successfully removed from hard drive, the message about the completion of the removing process will be displayed. Click **Finish**.



Removing of the *ACFA PSIM* is completed.

4.6 Installation of the ACFA PSIM software package in the silent mode

On the page:

It is possible to run *ACFA PSIM* in the silent mode (without user interface).

This type of installation is performed by setting the parameters of the Product.msi installation file in the Windows command line.

4.6.1 Install

The command to install all modules:

```
msiexec /i Product.msi /quiet INSTALLLEVEL=2
```

or

```
msiexec /i Product.msi /qn INSTALLLEVEL=2
```

By default menu icons and further *ACFA PSIM* installation are in English. To select Spanish add the TRANSFORMS="Languages\Setup\es\es.mst" parameter. For instance:

```
msiexec /i Product.msi /quiet INSTALLLEVEL=2
TRANSFORMS="Languages\Setup\es\es.mst
```

To install only the required *ACFA PSIM* components use the request that looks like this:

```
msiexec /i Product.msi /quiet
ADDLOCAL="base,ravelin_en,account_manager_en,event_manager_en,worktime_en"
TRANSFORMS="Languages\Setup\en\en.mst"
```

where all required components are listed in the ADDLOCAL parameter. The full list of available components is given in the table.

> **Note**
>
> The module language is set with **en** or **es** indication at the end of the component name.

Component	**Module**
base	Required component, service modules
axacfa_en	AxACFA
Security Fire Systems	
aritech_en	Aritech FP2000
bacnetwrapper_en, bacnetwrapper_es	BACnet wrapper
boschape_en	BoschAPE
cerberuspro_en	CerberusPRO
detectomat_en	Detectomat
dsc_en	DSC
esser_en	Esser

fsg_en	FSG
modbuswrapper_en	Modbus Wrapper
opc_wrapper_en	OPC Wrapper
pl_en	Polon 4000
satel2_en	Satel INTEGRA
senstar_en	Senstar
cerberus_en	Siemens Cerberus ECO
risco_en	RISCO
snmpwrapper_en	SNMP Wrapper
texecom_en	Texecom
unipos7000_en	UniPos 7000M
unipos_en	UniPos 7002
vanderbilt_en	Vanderbilt SPC
Access Control Systems	
bas_ip_en	BAS-IP
bsveins_en	BioSmart
bosch_bis_en	Bosch BIS
castle_en	Castle
control_id_en	Control ID
dahua_en	Dahua

rakinda_en	Rakinda
ravelin_en	Gate Parking
hikvision_en	Hikvision
kaba_exos_en	Kaba exos 9300
keywatcher_en	KeyWatcher
microengine_en	MicroEngine
morpholite_en	MorphoAccess SIGMA Lite
nc_en	Honeywell N-1000
nedap_aeos_en	Nedap AEOS
noderee12_en	Noder EE12/EWE4
noderew2_en	Noder EW2/EWE2
safekey_en	SafeKey
salto_en, salto_es	Salto
schindler_en	Schindler
sigur_en	Sigur
stx1000_en	STX1000
suprema2_en	Suprema 2
symmetry_en	Symmetry
unicard_en	Unicard
velocity_en	Velocity

virdi_en	Virdi
zk_en	ZK Teco
AC/FA Systems	
apl2_en	Apollo SDK v.2
foxsec_en	FoxSec
hid_en, hid_es	HID Edge/VertX
glx2_en	Honeywell Galaxy Dimension v.2
lenelog_en	OnGuard
paradox_en	Paradox
winpak_en	WinPak
Perimeter Intrusion Detection Systems	
elfar_en	El-Far
fft_en	FFT CAMS3
fibersensys_en	Fiber SenSys
forteza_en	Forteza
intrepid2_en	Intrepid Grunt
intrepid3_en	Intrepid II System
optex_en	Optex
Control readers	
hundure_im1000_en	Hundure IM1000

noder_desctop_reader_en	Noder desctop reader
pcscwrapper_en	PCSC Wrapper
suprema_cr_en	Suprema BioMini control reader module
suprema_rs_en	Suprema RealScan control reader module
textreader_en	Text reader
bolid_cr_en	USB HID reader
Application software	
account_manager_en	Access Manager
data_bridge_en	Data Bridge
event_manager_en, event_manager_es	Event Manager
support_temp_level_en	Temporary Access Levels Support module
dbimport2_en	User Import
worktime_en, worktime_es	Time & Attendance
virtual_acs_server_en	Virtual Access Server
Geotracking systems	
teltonika_en	Teltonika
Other detectors	
Security equipment	
an_en	Security equipment
Obsolete	

suprema_en	Suprema

4.6.2 Remove

Use this command in order to remove all installed modules:

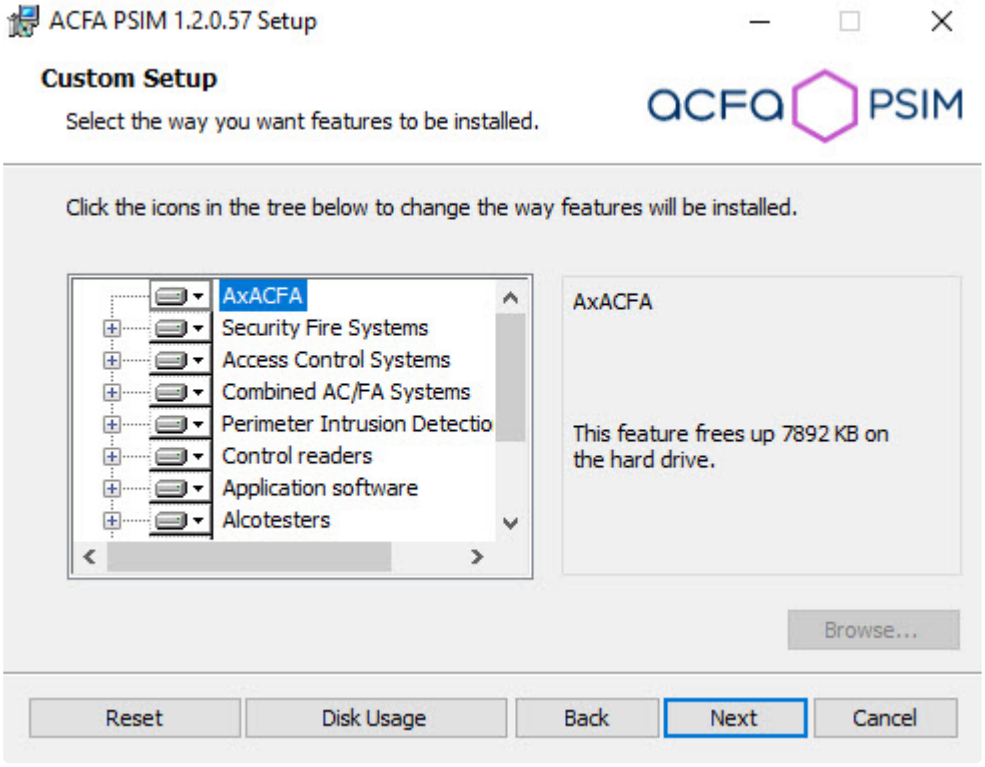
```
msiexec /x Product.msi
```

4.7 Connecting and configuring the AxACFA feature

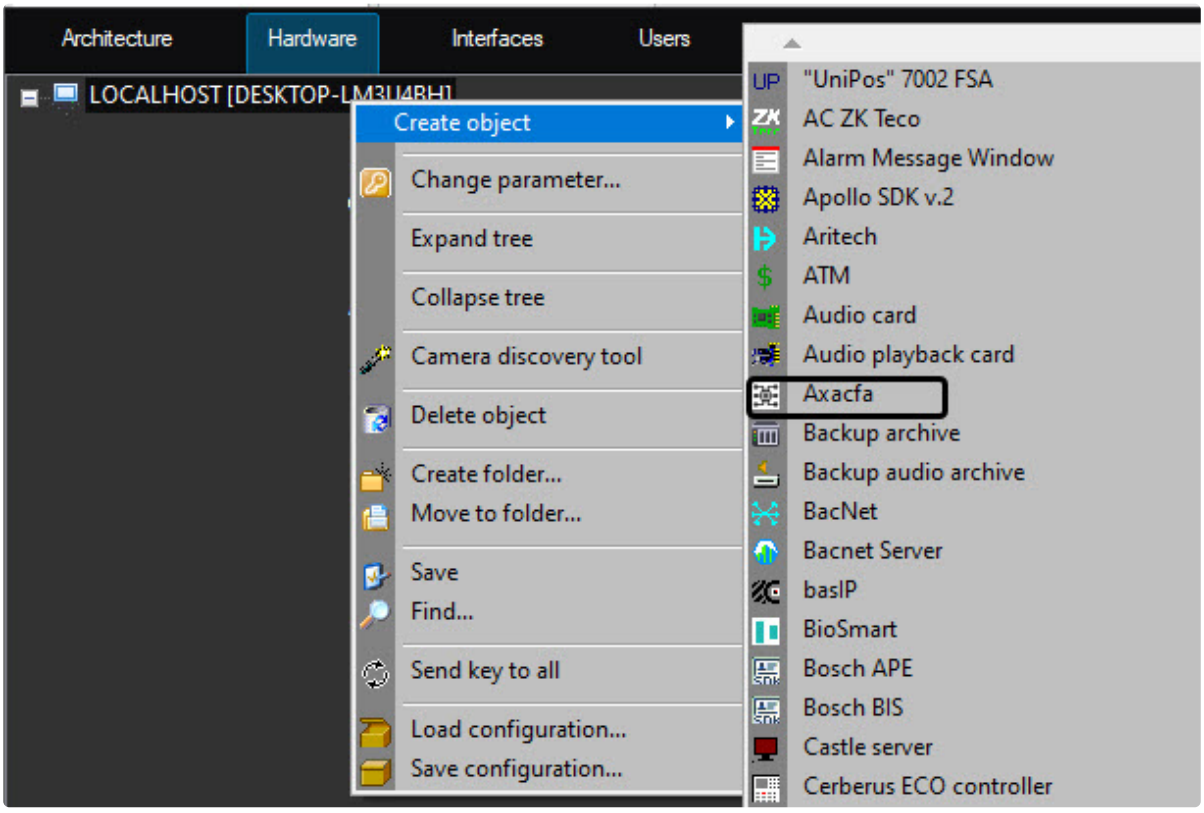
4.7.1 Connecting the AxACFA feature

To work with the integration modules included in the *AxACFA* feature, do the following:

1. Select the feature when setting up *ACFA PSIM*.



2. Create the **Axacfa** object on the basis of the **Computer** object on the **Hardware** tab of the **System setting** dialog window.

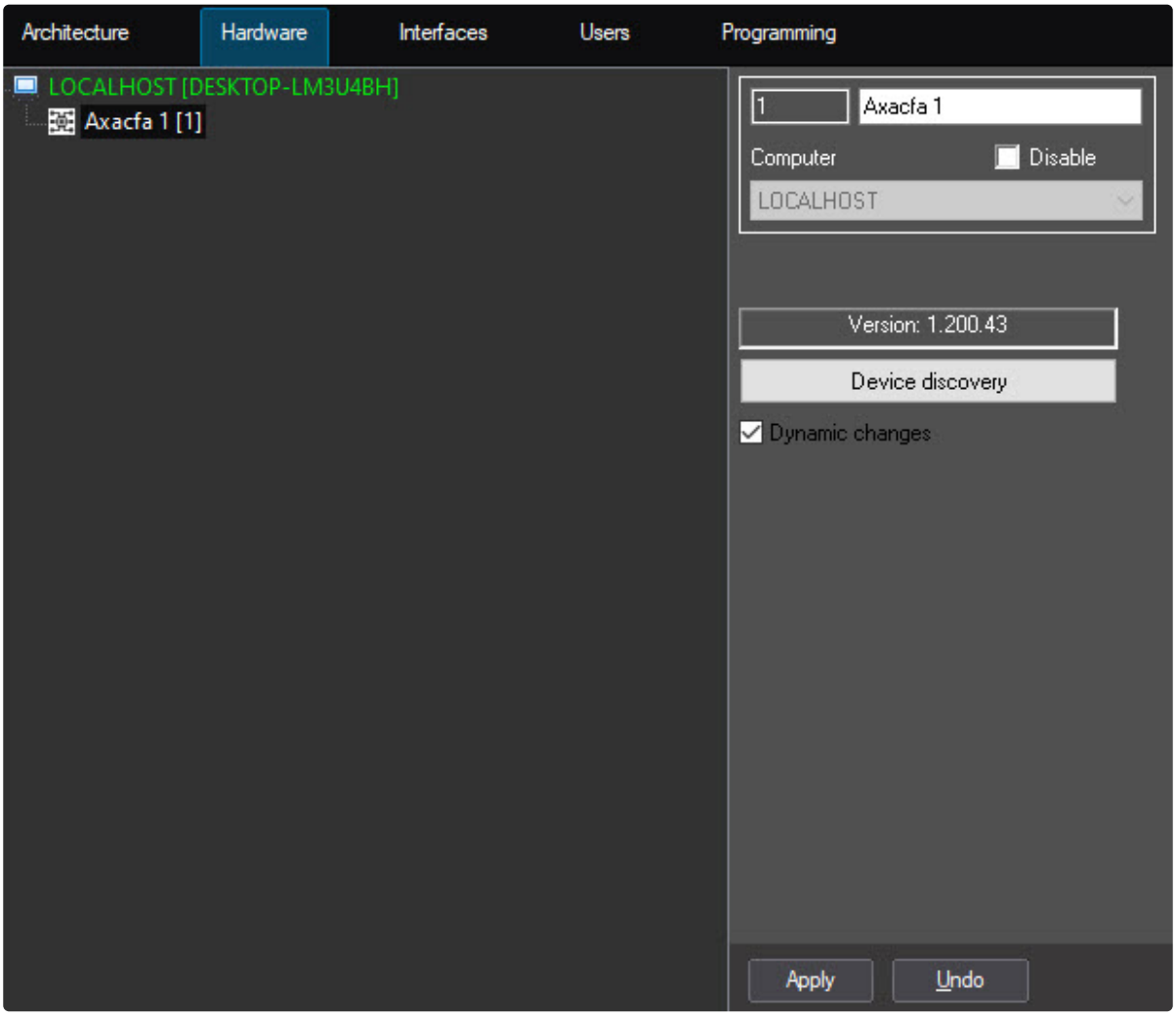


Connecting the *AxACFA* feature is complete.

4.7.2 Configuring the AxACFA feature

To configure the *AxACFA* feature, do the following:

1. Go to the settings panel of the **Axacfa** object that is created on the basis of the **Computer** object on the **Hardware** tab of the **System setting** dialog window.



2. Click the **Device discovery** button to search for devices in the network.

> **Note**
>
> Currently, the device search works only for the *ZK PUSH controller* integration module.

3. The **Dynamic changes** checkbox is set by default. It allows you to automatically write changes to the corresponding controller when the data in the *Access Manager* module changes. If automatic transfer of changes isn't required, clear this checkbox.

> **Attention!**
>
> Only dynamic transfer of users is supported.

4. Click the **Apply** button to save the changes.