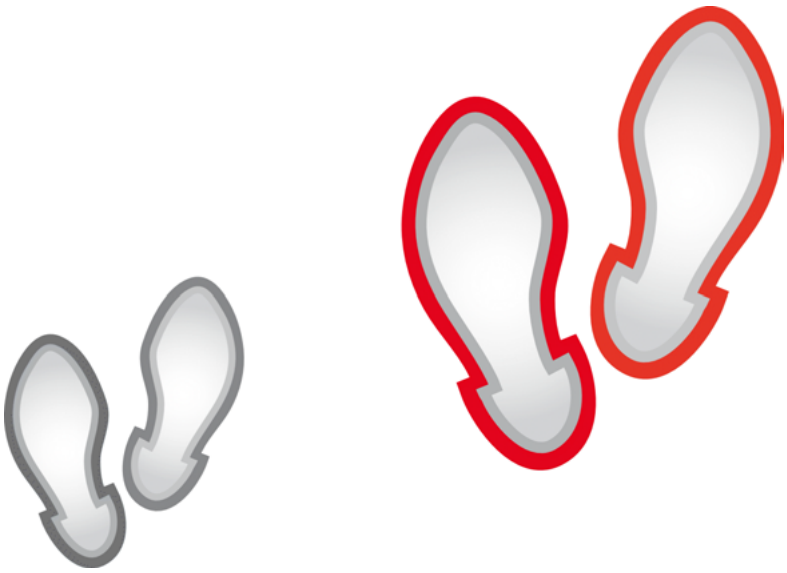


dmc-ortim

ORTIMmulti

Setup instructions

ORTIMmulti
Setup instructions

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Index 1

1 Overview

1.1 System requirements

To run ORTIMmulti, you require a standard PC or a virtual machine. The main memory (RAM) the program requires depends on the operating system you use (see below).

The program runs under the Microsoft operating systems Windows 8.1 or newer.

The program also runs on the Server versions Windows Server 2012 R2 or newer.

You also require a VGA compatible graphics card with a minimum resolution of 800x600 pixels. Higher resolutions are recommended. This significantly enhances the clarity of the window elements.

We also strongly recommend that you use a mouse.

The program must be installed on a hard disk. You require around 100 MB of free memory for the full installation. Another 300 MB of disk space is necessary for the application database.

Note: You must have administrator rights and the permission via the user access control facility (UAC) in order to install the program. Accordingly, sign on as an administrator or have the system administrator perform the installation.

Microsoft Windows 8.1, Windows 10, Windows 11

You should have at least 4 GB main memory (RAM) and a dual core CPU.

Microsoft Windows Server 2012 R2, Windows Server 2016, Windows Server 2019, Windows Server 2022

You should have at least 4 GB main memory (RAM) and a quad core CPU.

1.2 Data security

The following mechanisms protect your data from unauthorized access:

- Access authorizations
- Encryption
- Access control in a multi-user environment
- Copy protection

Access authorization

The User Manager allows each license holder to configure the access authorization to suit the particular needs of his organization and delegation structure.

The user is allowed access the program sections he is to work with. The User Manager enables the license holder to deny the user access to program sections he is not allowed to use.

Users are organized in user groups in ORTIMmulti. In each user group, the right access authorizations are defined for their organizational structure.

Always ensure that there is at least one user group with access authorization to all the program sections (with administrator authorization) and that this user group is assigned to at least one user. Otherwise, it may happen that no user at all is authorized to restore access to program sections that have been locked! (in which case, the User Manager has to be re-installed).

When the program is installed, the system administrator (with the name "Abel" and password "a") is configured with access to all the sections of the program. As soon as the User Manager has been adapted to the license holder's particular organization, user "Abel" should be deleted.

Encryption

All the security-related data ORTIMmulti writes onto the hard disk are automatically encrypted. This ensures that neither the texts nor the time blocks can be read without using the program.

Access control in the network

If the program is used in a multi-user environment (e.g. network), access to the program data has to be controlled such that no conflicts arise when changes are written.

To achieve this, ORTIMmulti requests a lock from the database for each data record. If the database fails to supply this lock, because the record is being edited by a different user, the data are released for viewing only, meaning that no changes can be made.

If the database succeeds in setting the lock, the user can edit a record in full with all the related components. In this case, all the other users of the program are denied access to the same data.

1.3 Copy protection

Softlock

Softlock is the standard program protection for ORTIMmulti.

Softlock is bound to a network server.

A detailed description of the *Softlock* can be found in chapter *Softlock* (page 73).

1.4 Multitenancy

Software multitenancy is a software architecture in which a single instance of software runs on a server and serves multiple tenants. Systems designed in such manner are "shared" (rather than "dedicated" or "isolated"). A tenant is a group of users who share a common access with specific privileges to the software instance. With a multitenant architecture, a software application is designed to provide every tenant a dedicated share of the instance - including its data, configuration, user management, tenant individual functionality and non-functional properties. Multitenancy contrasts with multi-instance architectures, where separate software instances operate on behalf of different tenants. [1]

ORTIMmulti has many, but not all, of the properties mentioned above.

1. Source is en.wikipedia.org, Multitenancy

Groups, subgroups and users can be managed via a central user administration. The user management is initially available to all users, but can be reduced to the group of administrators through rights and roles.

The top-level groups - the main groups - offer the possibility to define directories and variables that are effective for all subgroups and users.

All groups (including individual users) can be assigned roles that define access to individual program functions. Rights to data areas can be defined in the same way.

With the directories of the main groups and the data rights, quasi clients can be formed that work on the system at the same time but have no access to the data of the other clients.

Since there is not a strict separation of all system areas, despite the separation of data and authorizations, e.g. central print forms can be set up and used, which makes it easier to maintain the data for an entire group.

2 System Architecture

To ensure proper installation, we recommend the following system architecture.

dmc-ortim server

As a rule, installing the database server and the dmc-ortim programs on an existing server does not pose a problem. On account of the substantial system loads that can sometimes occur, however, particularly when using ORTIMmulti the runtime of other software may be affected.

If possible, it is advisable for this reason to use a separate server. We recommend using a virtual server machine with the operating system *Microsoft Windows Server 2012 R2* or newer.

Having plenty of system memory on the dmc-ortim server can improve the Zen database performance significantly. The Zen database server uses 60% (default) of the physically available system memory as level 1 cache. Ideally, a level 1 cache should be the size of your database; the database then works like an in-memory database.

dmc-ortim terminal server

A terminal server can be configured as a separate server or activated on the dmc-ortim server. We recommend using a terminal server if you are planning a central installation and wish to connect multiple sites. The terminal server should be dimensioned such that it provides sufficient CPU power and system memory for the necessary sessions.

The Zen client installed on the terminal server uses TCP port 3351 to connect to the Zen server.

dmc-ortim workstation PC

Few requirements apply with regard to the workstation PC. Any commercially available standard PC satisfies the requirements for using the dmc-ortim programs.

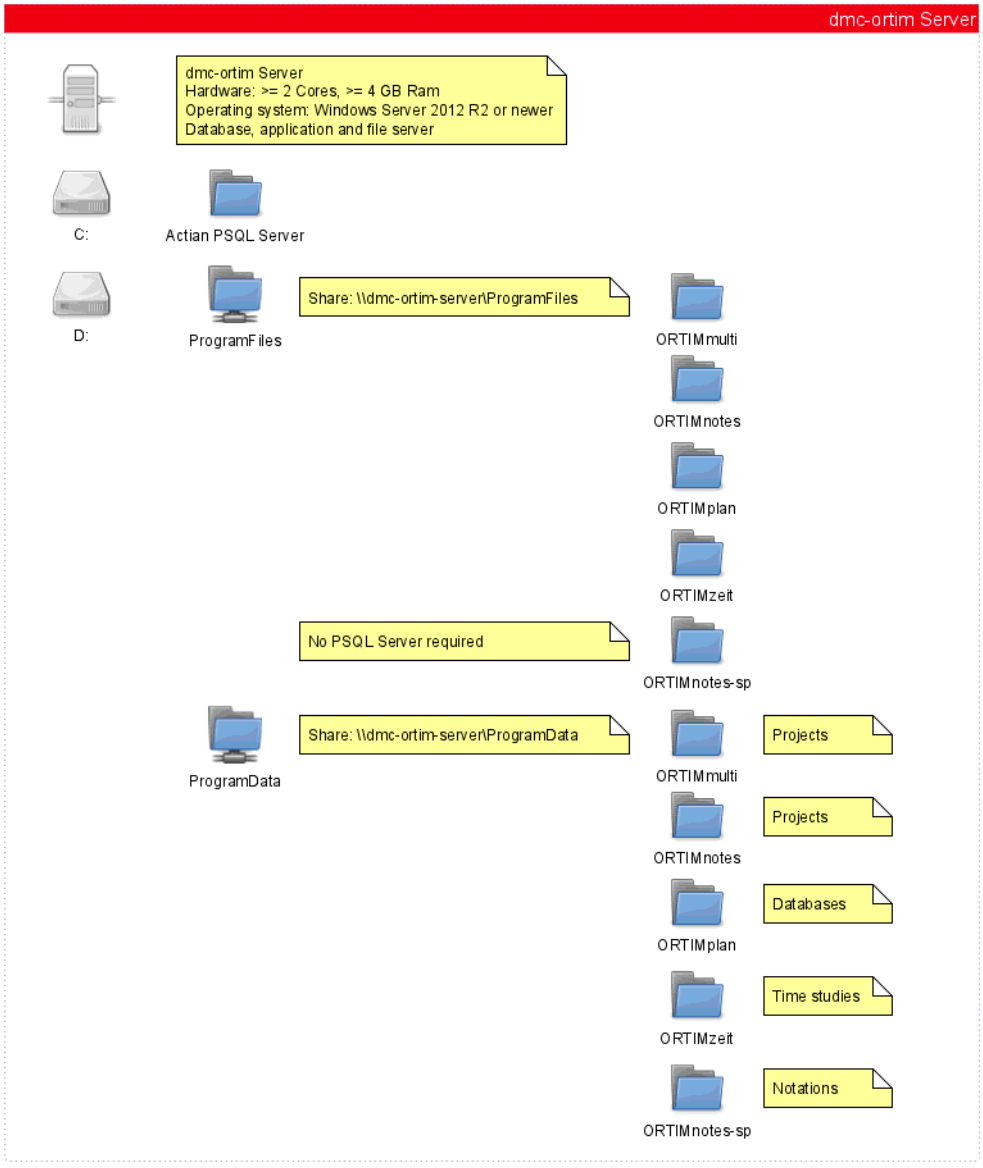
The workstation PC can access the dmc-ortim server directly if the PC and the server are in a fast network (at least 100 Mbit).

If the workstation PC accesses the dmc-ortim server via a slow connection, it is advisable to configure a terminal server and the workstation PC for this. Only the terminal sessions will then be started on the workstation PC; the program itself runs on the terminal server.

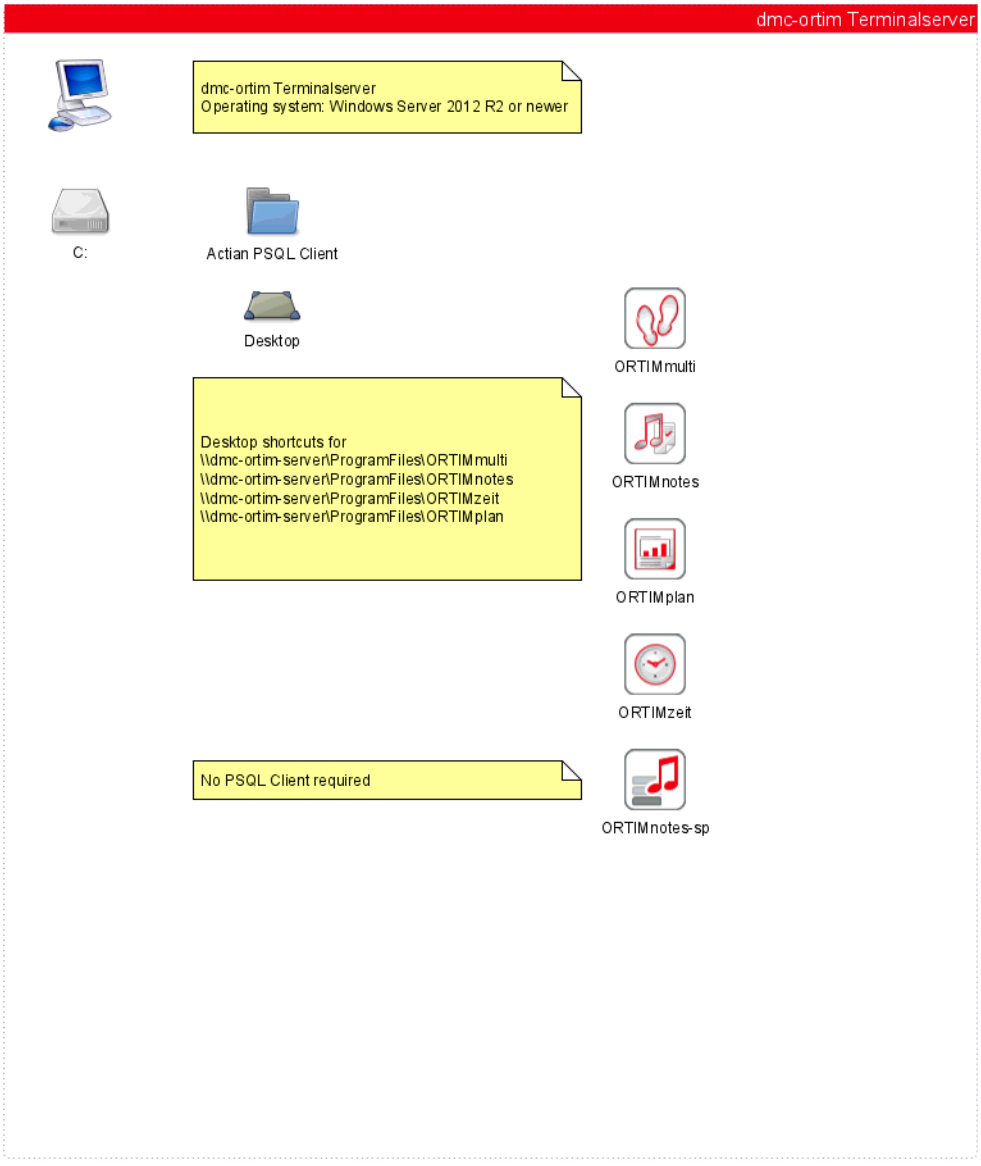
The Zen client installed on the workstation PC uses TCP port 3351 to connect to the Zen server.

The connection between the workstation PC and ORTIM a5 device is established via TCP port 12555.

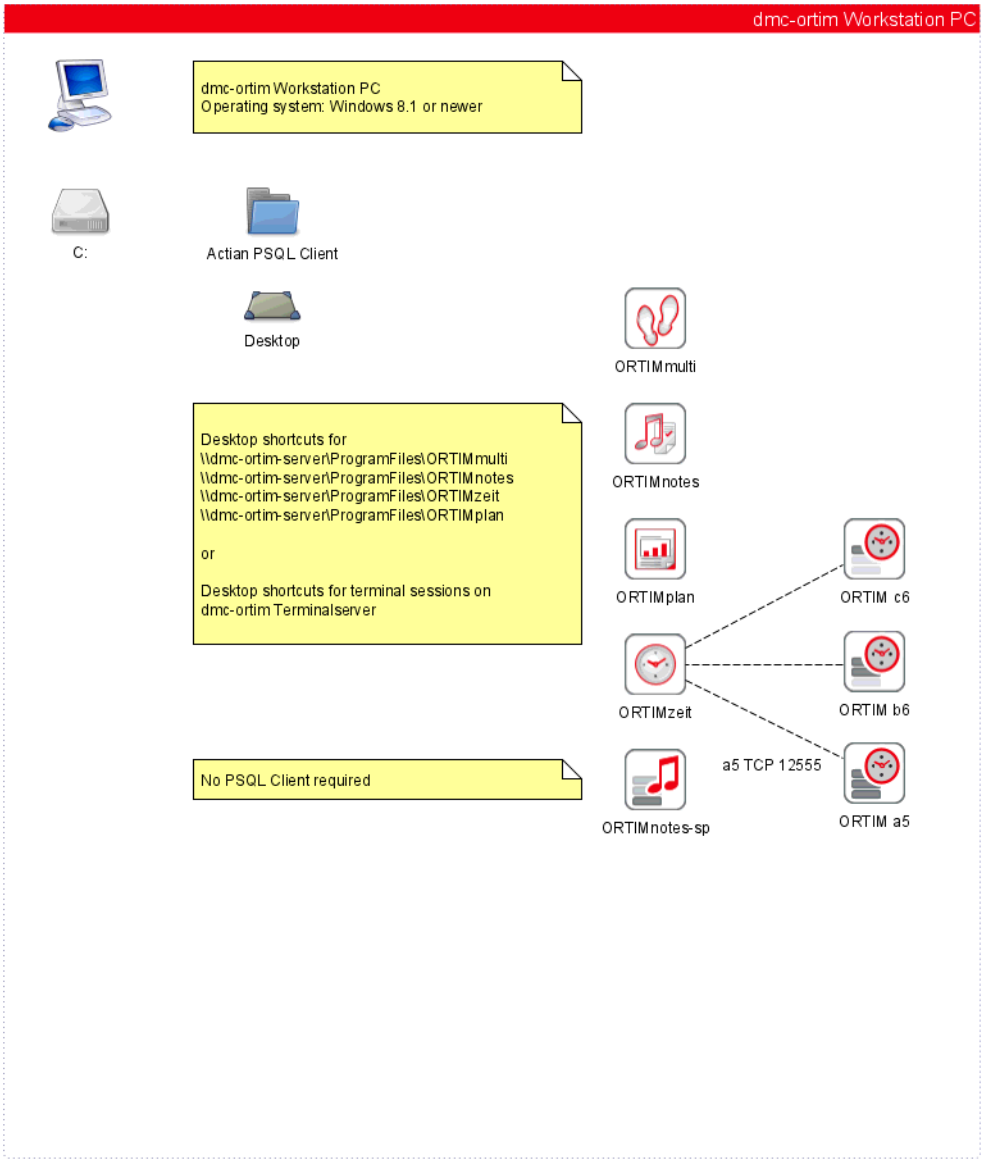
2.1 Architecture of the dmc-ortim server



2.2 Architecture of the dmc-ortim terminal server



2.3 Architecture of the dmc-ortim workstation PC



3 Software protection

ORTIMmulti is equipped with a program protection.

The method *Softlock* is a pure software protection method. The software protection method is also referred to below as a license file.

3.1 License file (Softlock)

The *license file* consists of a central database in which all the important information is stored.

The license file is delivered with delivery of the software.

You will receive a small setup program from dmc-ortim which will install the license file (omlock.btd) in the correct folder (the data directory of ORTIMmulti).

Technical details about the function of the license file can be found in section *How does the license file work?* (page 99).

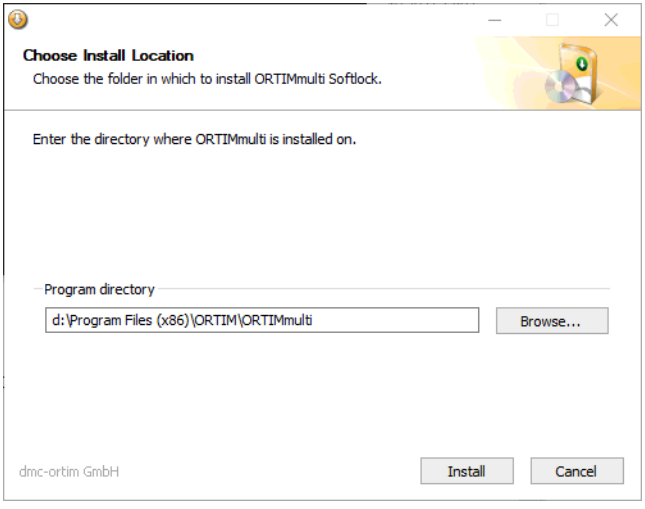
Installation of the license (.exe file)

Execute the *License* setup program.

Program directory

It is first necessary to choose the ORTIMmulti program directory. The program directory is the directory where the *omulti.exe* file is located.

The directory for the license file is determined via the *control.ini* file. In most cases the data directory of ORTIMmulti is used.



The directory will be defaulted in which ORTIMmulti is already installed when the *Softlock* is installed on the same PC the program has been installed on.

Installation of the license (.zip file)

If you received a .zip file, you can select it during installation (see

below page 49). The license will then be installed.

If you want to renew your license independently of the program installation, unzip

Please copy the license file omlock.btd into the data directory of the application.

> **Note:** The data directory is the directory in which, among other things, the user database omuser.btd is located.

Activate license

If you are using the *license* for the first time, it first has to be activated.

> **Note:** The *Softlock* is activated for the PC on which ORTIMmulti is installed. If you install ORTIMmulti on a network server, the license will be activated for the network server.

Automatic activation

When the program is started for the first time, an automatic activation procedure is triggered. This automatic activation takes place via the Internet. This will contact the dmc-ortim activation server.

Here the program version, the serial number and a device code are transmitted to the activation server.

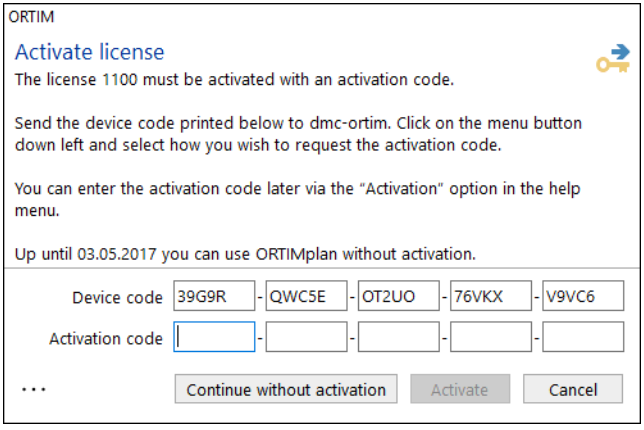
No further data (personal or PC-related data) will be transmitted.

The activation server will provide the activation code and unlock your license for use.

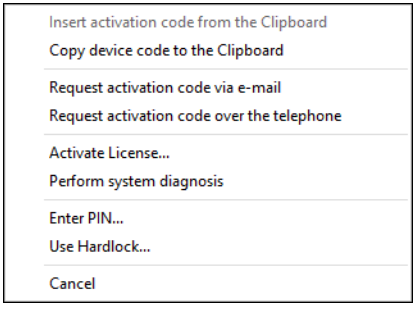
If automatic activation is unsuccessful, you can manually activate the license. The method will be described below.

Activate license manually

For this purpose, once you have logged in, ORTIMmulti opens a window from which you can read your device code.



You must send the device code to dmc-ortim, who will send you your activation code. Use the menu button (lower left) for this purpose.



You also have the option of requesting the activation code via e-mail or by telephone.

Note: Wherever possible, submit your request via the e-mail option.

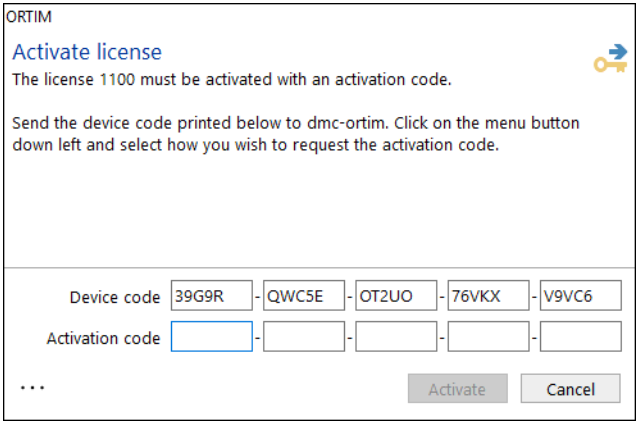
In order to issue your activation code, dmc-ortim requires the following information:

- The program name,
- the program version,
- the licensee,
- Your serial number,
- Your device code

The activation code will be sent to you as soon as possible.

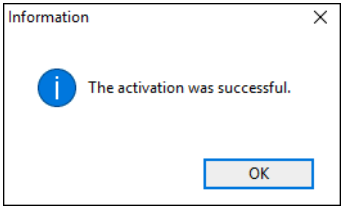
You can also use the program even before you have received your activation code. To do this, select the *Continue without activation* button.

Enter your activation code once you have received it. To assist you with this task, the Help menu contains an option entitled *Activation*. This option is only visible if the *license* has not been activated.

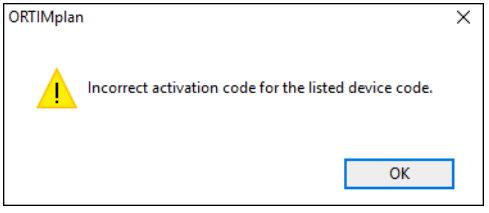


Enter your activation code in the five input boxes. Once you have entered the complete code, the *Activate* button will be enabled. Select the *Activate* button to activate your license.

If the activation code is correct, a message will appear informing you that the *license* has been successfully activated.



If you receive a message informing you that the activation was not successful, check your entry.



If the *license* has been successfully activated, the activation window will no longer appear after you have logged on. If you have launched the program without having activated the Softlock, the *license* activation window will appear again each time after logging in.

In this case, you can continue to use the program without having activated the license for a temporary period.

Deactivate the license

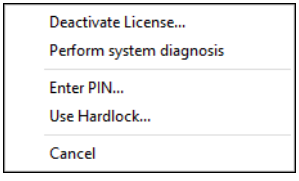
The license is bound to your PC or server.

> **Note:** You must deactivate your license if you want to run ORTIMmulti on another PC or server.

If the license is deactivated, you can perform the automatic license activation on the new PC or server. If you do not disable the license, automatic activation on a new system is not possible.

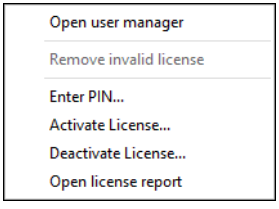
Disable license via the help menu

- Open the Help menu and select License ...
- The following window will show that your license is activated.
- At the bottom left press ... and select *Deactivate license...*



Disable license via the system administration

- Open the system administration and switch to the *License* area.
- It will show that your license is activated.
- Open the local menu (context menu) and select the *Deactivate license...* entry.



To deactivate the license, you need the *Deactivate License* right in your user role. Then confirm the consultation to deactivate your license.

Entering a PIN code

If you received a PIN code for a special solution, enter it as follows:

- Choose the menu *Help* and item *Activation...*.
- Click menu button ... in the activation window.
- Select item *Enter PIN...*
- Enter the PIN code or delete and existing PIN code.

or

- Open the system manager.
- Choose the category *License*. The right side of the window will display notes about the license.
- Open the local menu (context menu) and select *Enter PIN...*
- Enter the PIN code or delete and existing PIN code.

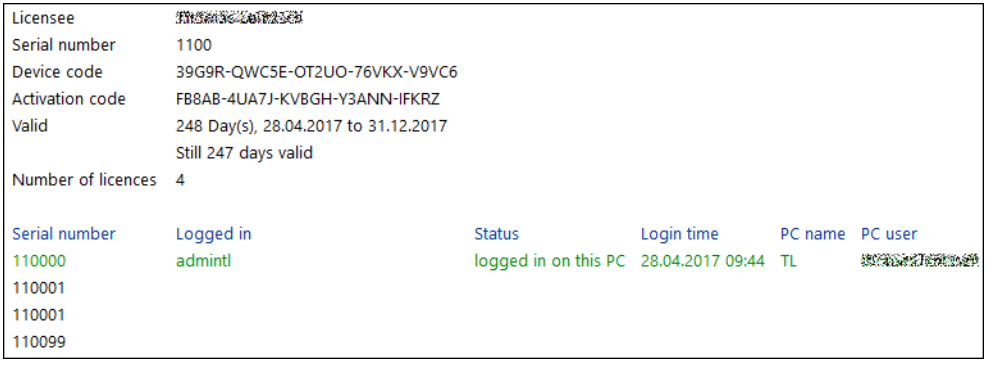
After that the program must be restarted.

The about dialog (main window, menu *Help*, *Info*) prints out notes about the special solution.

License monitor

The *License monitor* is part of the system management.

If your attempt to sign into the license fails, the license monitor will be opened. This monitoring program allows you to view all the locks and all the users signed in. The license monitor allows an administrator to release licenses (e.g. if the program has not been shut down properly on a particular workstation).



The license monitor can also be started as a separate program, without a user signing in at the Softlock. This is done using the *License monitor* option in the Start menu on your PC. This launches ORTIMmulti with command line option /m.

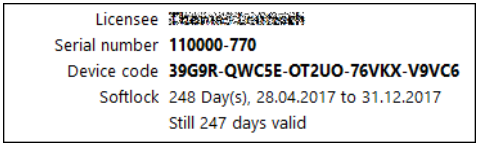
If the program is launched with option /m, no other functions of ORTIMmulti will be available. After closing the license monitor, the program will be shut down automatically without requesting confirmation.

It is only possible to use the License monitor as a separate program if ORTIMmulti is not already running.

Validity period of the license

The License restricts the use of the program to a specific period (e.g. 180 days).

The license period of validity is displayed in the information dialog window of ORTIMmulti.



ORTIMmulti issues a warning in good time that the validity of the license is due to expire, reminding you that you need to request an update for the data from dmc-ortim.

Status messages

Possible problems are described in section *License file status messages* (page 100).

4 Installation

4.1 Preparing the installation

A number of directories are configured during the installation of ORTIMmulti.

> **Note:** You must have administrator rights in order to install ORTIMmulti. Accordingly, sign on as an administrator or have the system administrator perform the installation.

The setup program configures files in various directories.

Program directory

The program files that cannot be modified are stored in the program directory. To work with the program, the PC standard rights of the group "User" are sufficient.

> **Note:** The program directory does not need to be included in a data backup.

Data directory

The data directory is used for storing all the program files that can be modified. For this directory, PC write access is required. The setup program attempts to set the rights.

On PC systems with special restrictions (group guidelines) or in network directories, setting the rights may not work sometimes. In this case, the system administrator has to assign the rights for the data directory and all the sub-directories manually.

It is essential to include the data directory in the data backup routine.

Zen working directory

The Zen working directory is required for the correct functioning of the database used by ORTIMmulti. The directory must be located on the workstation PC - not in the network. For this directory, PC write access is required. The setup program attempts to set the rights (for further information, refer to data directory).

It is not necessary to include the Zen working directory in a data backup routine.

Configuring directories on PC or notebook PC

If you install ORTIMmulti on either a PC or notebook PC, the following directory structure is useful.

Program directory

Use the directory used on your PC for installing programs.

Example: C:\Program Files\ORTIMmulti

Data directory

Specify a directory with write permissions.

Example: C:\Program Files\ORTIMmulti

Zen working directory

Specify a directory with write permissions.

Example: C:\Windows\temp

Configuring directories on a network server

If you install ORTIMmulti on a network server, the following directory structure is useful.

Program directory

Using a network drive of your server with the name **\\ServerName**, create a directory called **ProgramFiles** for the installation of programs. Configure a release **ProgramFiles** for this directory. Under **ProgramFiles**, create the directories **ORTIM** and **ORTIMmulti**. Then specify **\\ServerName\ProgramFiles\ORTIM\ ORTIMmulti** as the program directory.

Data directory

Using a network drive of your server with the name **\\ServerName**, create a directory called **ProgramData** for storing program data. Assign write permissions to this directory. Configure a release **ProgramData** for this directory. The release must also have write permissions. Under **ProgramData**, create the directories **ORTIM** and **ORTIMmulti**. Then specify **\\ServerName\ProgramData\ORTIM\ORTIMmulti** as the program directory.

Note: We strongly advise that you specify a UNC path name here.

4.2 Full Installation

Full Installation

The ORTIMmulti program is supplied in the dmc-ortim Download Center. Download the file *setup_ortimmulti.exe* and run the installation.

The program cannot be used without a license.

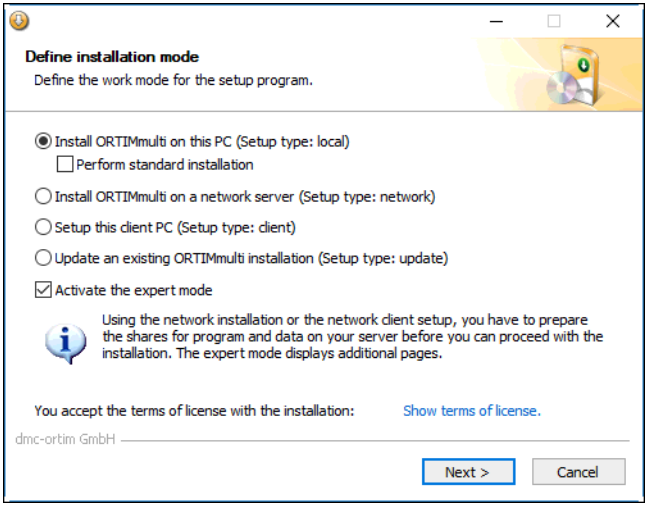
This will launch the setup program and you will be guided through the various steps of the installation. It is advisable to read all the information carefully that appears during the installation process.

Start the full installation, Choose Installation Mode

The Setup Wizard will guide you through all the necessary installation steps.

> **Note:** You accept the terms of license with the installation. Read the license terms carefully before starting the installation.

This window allows you to define how the installation is to be performed.



Install ORTIMmulti on this PC

Setup type: local.

Choose this install mode if you want to install ORTIMmulti on the PC, you are currently logged on to.

> **Note:** The database Zen Workgroup, which is included in the setup program, will be installed on the PC.

Perform standard installation

If this option is checked, the installation runs with the default values. The setup program uses the Microsoft standard directories for program and data. Only a page to determine the program protection will be opened.

Install ORTIMmulti on a network server

Setup type: network.

Choose this install mode, if you want to install ORTIMmulti on a network server. The setup can be performed either on the network server itself (recommended) or on a client PC. If you want to run ORTIMmulti on the network server (e.g. as service to perform central tasks), you must run the installation on the network server.

Before you start the setup procedure, you must create the directories for program and data and the network shares.

> **Note:** The database Zen server must be installed on the network server prio to the installation of ORTIMmulti.
>
> **Note:** The Zen database server is not part of the ORTIMmulti installation. The database server is placed on the program cd in folder \PSQL or can be downloaded from the dmc-ortim Internet:
> https://downloadcenter-ortim.dmc-group.com/dmc-ortim/softwareproduct/actian-psql

Example:

Install the program on the network server with PC name ORTIM on drive F.

Create the directories

```
F:\ProgramFiles\ORTIMmulti
F:\ProgramData\ORTIMmulti
```

Create the network shares

```
\\ORTIM\ProgramFiles
\\ORTIM\ProgramData
```

During the installation enter the program directory

```
\\ORTIM\ProgramFiles\ORTIMmulti
```

and the data directory

```
\\ORTIM\ProgramData\ORTIMmulti
```

Note: We strongly advise you to specify a UNC path to the data directory, since this is unique. Drive letters can refer to various PCs and different directories.

Setup client PC

Choose this install mode, if ORTIMmulti ist already installed on a network server and you want to setup a client PC.

> **Note:** The database client program (Zen Client or SQL Workgroup) must be installed on the client PC prio to the ORTIMmulti installation.

Update existing ORTIMmulti installation

Use this install type to update/upgrade an existing ORTIMmulti installation.

The installation will update all program and example file.

> **Note:** Do not place your own data or test data in the example databases.

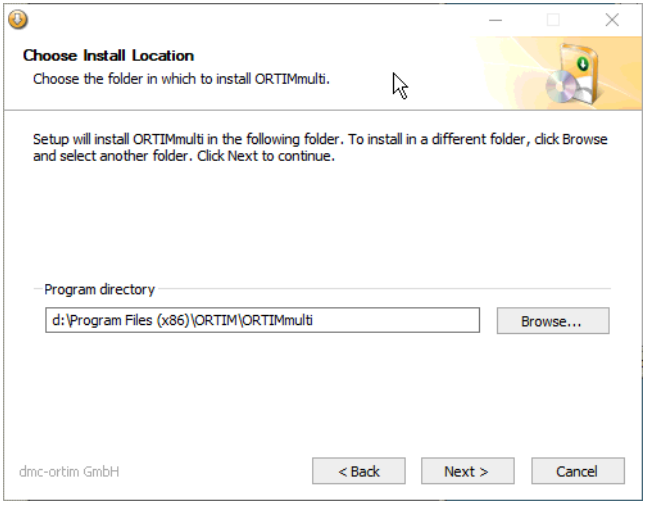
Expert mode

If you choose expert mode, additional settings pages will be opened during the course of the installation.

> **Note:** You should only use expert mode if you, for example, plan to configure a second installation on the same PC or server.

Choose program directory

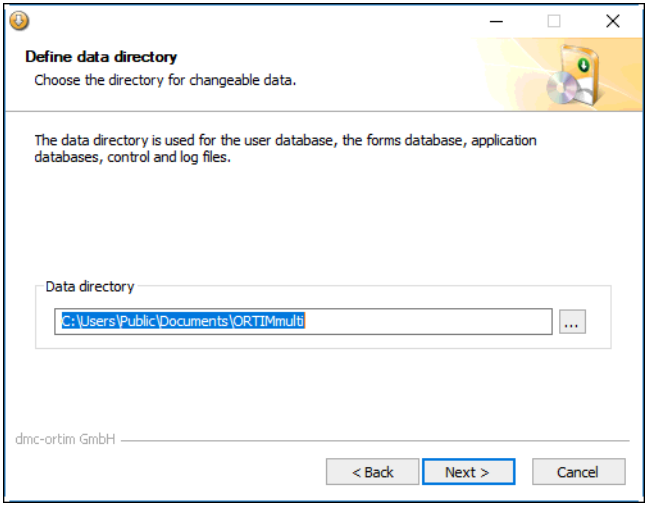
In the next step, you will be requested to specify a directory into which ORTIMmulti is to be installed.



By default, the directory "C:\Program Files (x86)\ORTIM\ORTIMmulti" is used. If you wish to use a different directory, you can select the directory you require using the "Browse..." button or by entering it directly in the input box.

Choose the data directory

Choose the data directory.

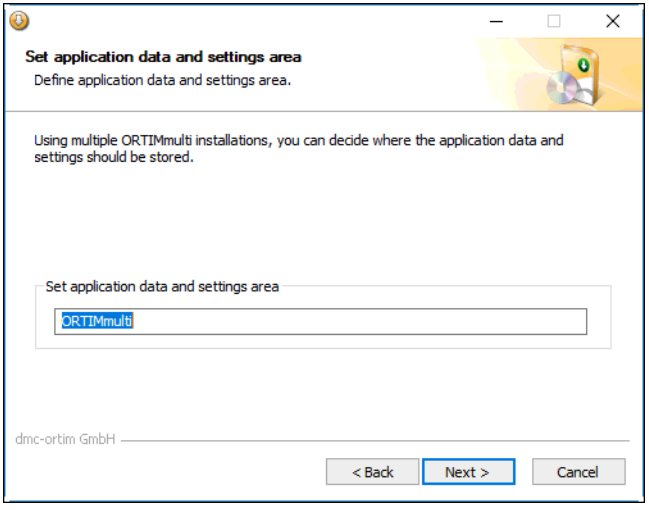


If you use the program in a network, choose a directory that is available to all users in the network and to which all the users have the necessary write permissions.

Note: We strongly advise you to specify a UNC path to the data directory, since this is unique. Drive letters can refer to various PCs and different directories.

Choose application and settings area

This screen only appears in expert mode.



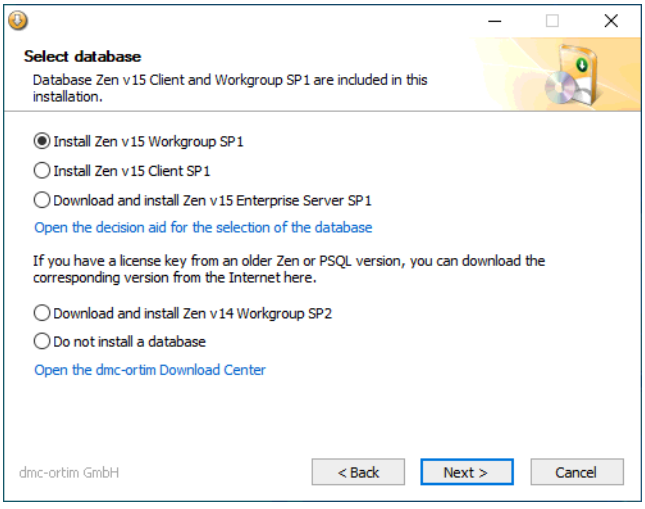
This dialog allows you to enter a key for the application data and the workstation settings.

If you plan to configure a second ORTIMmulti installation on the same PC or server, you need to enter a unique key here.

The application data are stored under the specified key in the directory, which is the current value of the system variable %APPDATA%.

The workstation settings are stored under the specified key in the registry path *HKCU\Software\ORTIM Industrial Engineering Deutschland GmbH* within the PC.

Select database



The **Actian Zen v15 Workgroup** database is **integrated into the installation**.

If you want to use Actian PSQL v14 Workgroup, you need a license for this version.

Licenses are not transferable between versions.

At the end of the installation, you can enter your license in the *License Administrator* and activate the database.

Decision support for the selection of the database

Select the database based on the following criteria.

Workgroup

- When you install the application on this PC.
- If the application is installed on a central server and you also work with data on this PC.
- If you want to use the ORTIM a6 for Windows application on this PC.

Client

- When you set up a network workstation.

Server (Enterprise Server)

- If you carry out the installation on a central Windows server to which several PCs are connected.

The server is offered in two versions. The server that can be selected here is the Enterprise Server. You can get the cloud server from the dmc-ortim Download Center.

Enterprise Server: suitable for use on physical hardware and in a virtual machine (no load distribution possible).

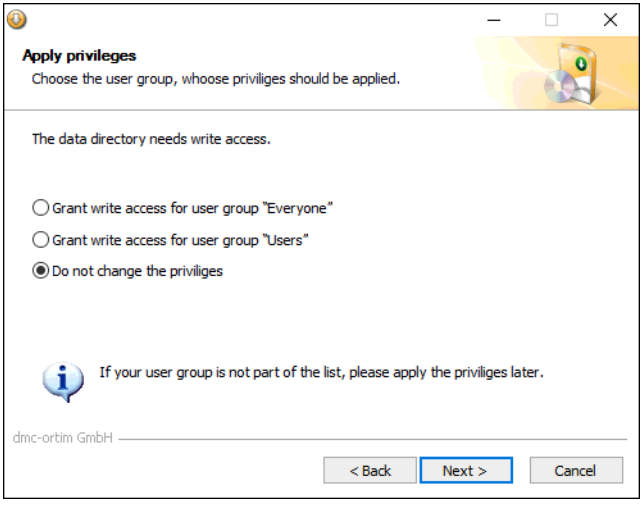
User-dependent license model.

Cloud server: suitable for use in a virtual machine on a host with load distribution.

Data volume-dependent license model.

Apply priviliges

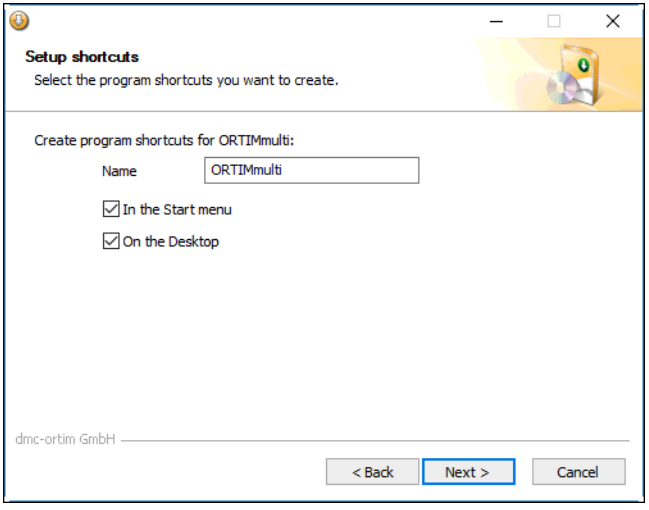
This screen only appears in expert mode.



Select the PC privilige group you want to assign to the data directory.

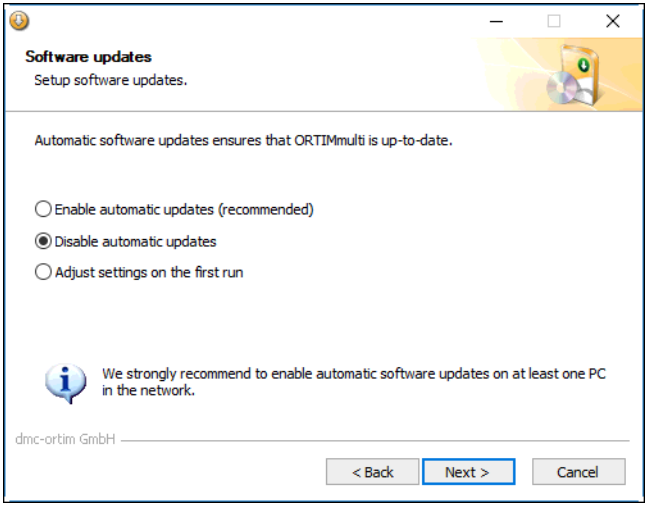
Setup shortcuts

On this page you can decide, where the program shortcuts are created. The shortcuts are created with the name entered in the entry field.



Software updates

This window only appears in expert mode.



ORTIMmulti offers the option of downloading program updates from the Internet (Software Update) and of modifying the program while it is running. This allows problems to be solved quickly and easily.

This screen allows you to define the settings for the Software Update functionality.

If you select the default "Define settings on first program start", a window will be opened when the program is started for the first time, which allows you to define the behavior of the software update functionality in detail.

Here (during the setup procedure), you can define the basic setting governing whether automatic updates are performed or not. If, for instance, you do not have access to the Internet, or you do not wish to permit the users of ORTIMmulti to have access to the Internet, you should select option "Disable automatic updates".

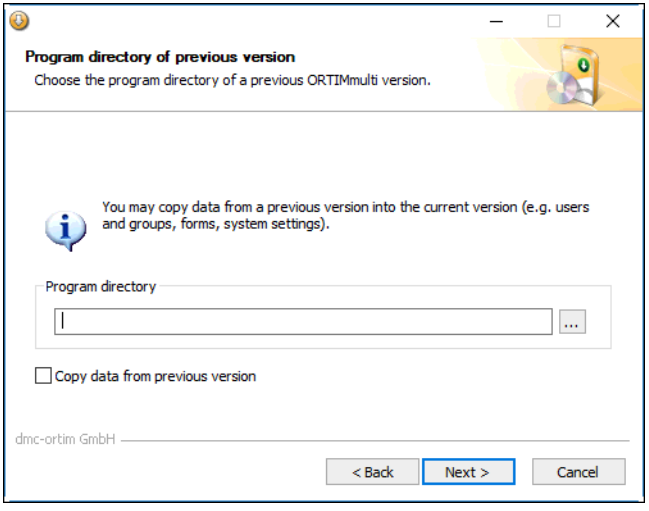
You can change these settings again later via the program.

Note: We strongly advise that you enable automatic software updates on at least one PC, such that any updates provided are downloaded.

Administrators can also access the Software Update function via the command line. Further information is available in the annex to the user manual "Basics" (command line).

Copy data from previous version

This screen only appears in expert mode.



If you run a full installation, you can copy files of a previous version to the current version.

Enter the program directory of the previous version and check the button „Copy data from previous version.

Note: A backup of the overwritten files is created with extension *.700 (the extension depends on the currently installed program version).

The following files are copied:

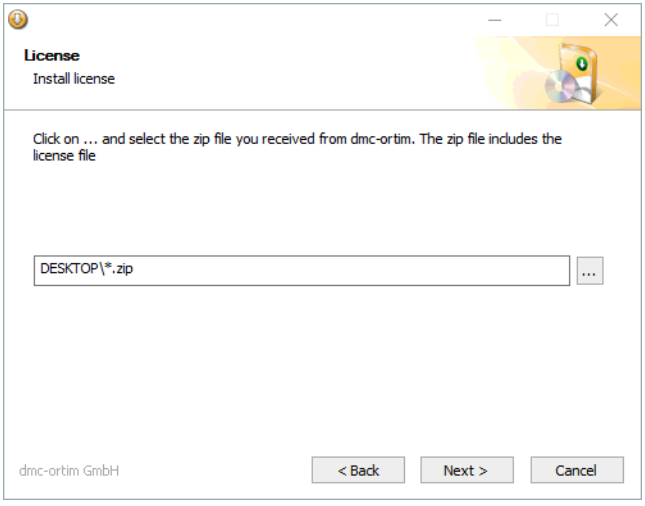
1. User database
2. Forms database
3. Task database
4. Analysis systems
5. Time category modules

6. ERP interface settings

Choose license

The page is displayed for installations on a workstation PC and on a network server open. For update installations, the page is only opened in expert mode.

Via the license page you can select the license zip file provided by dmc-ortim. The license is installed in the data directory during the program installation.



The license zip file can be entered in the installation control file (see below, page 77).

Example

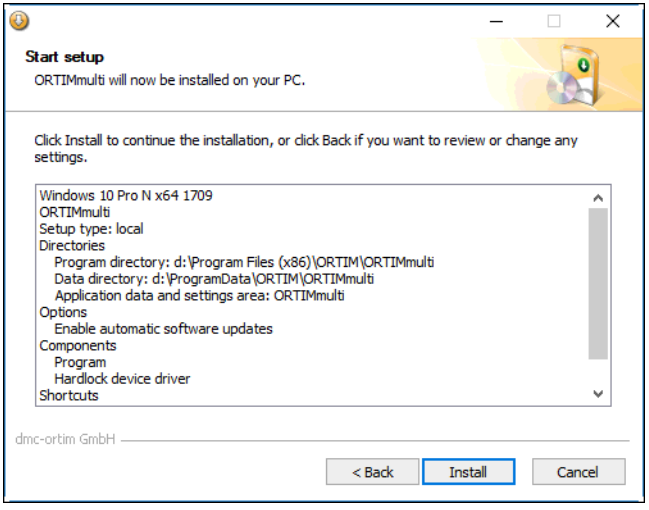
[License]

Path=%DESKTOP%\dmc-ortim-license.zip

Start setup

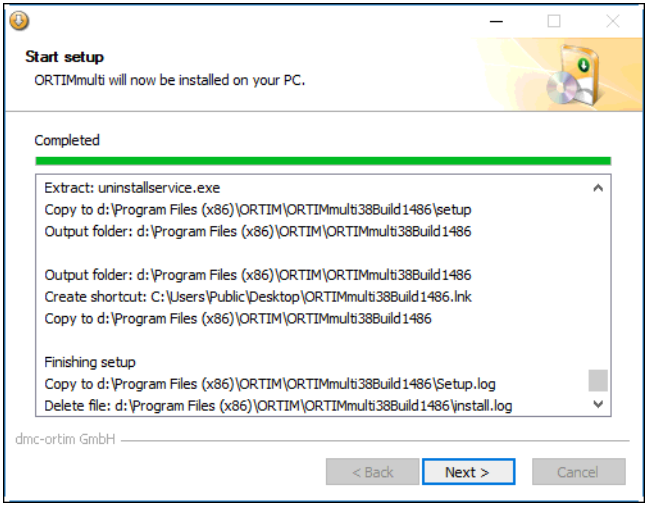
The overview page prints the installation steps you can expect to see.

You now launch the setup procedure by clicking on the "Install" button. All the necessary files are copied into the previously defined directories.

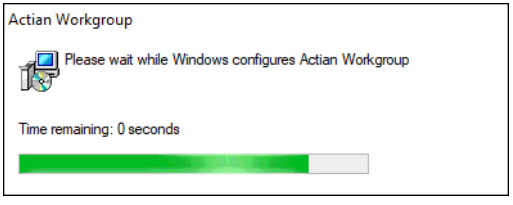


Installation progress

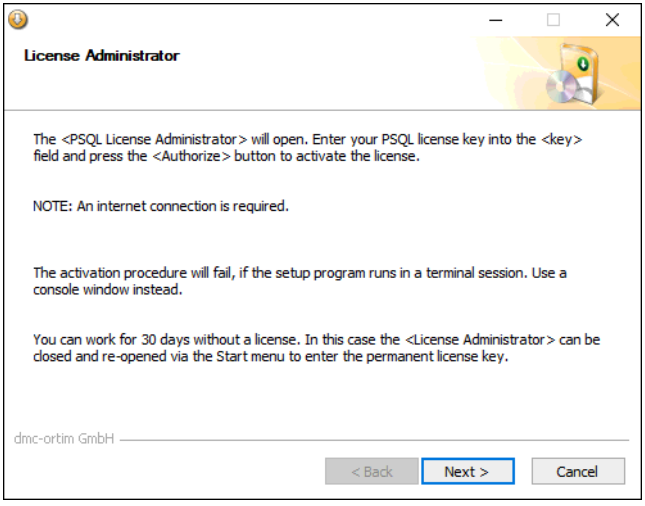
The progress of the setup procedure is now depicted by means a progress indicator. During the installation, the "Next >" button is not available. Once all the files have been copied onto the system, the "Next >" button becomes available again and shows you that the setup has been completed.



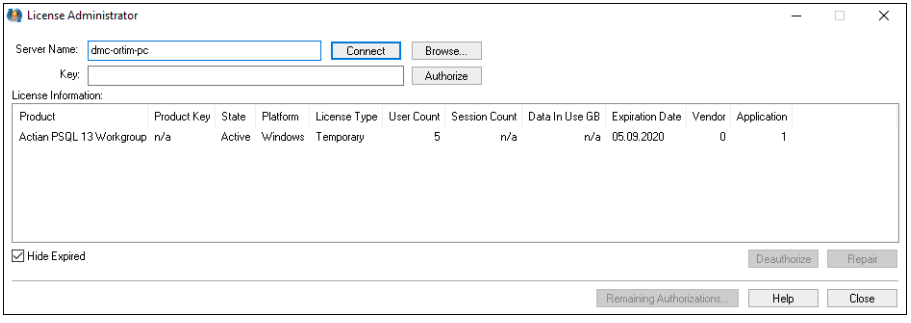
During the installation procedure, a window is displayed if you do not have installed the Zen database.



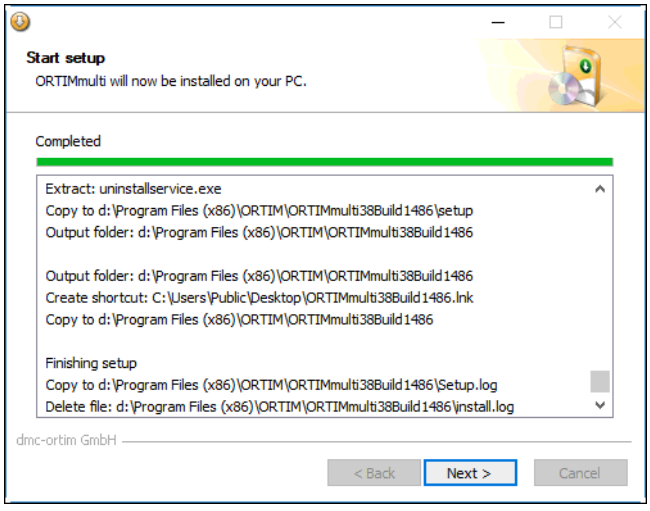
After installing the databse system a message box with useful tipps about entering the database license is opened.

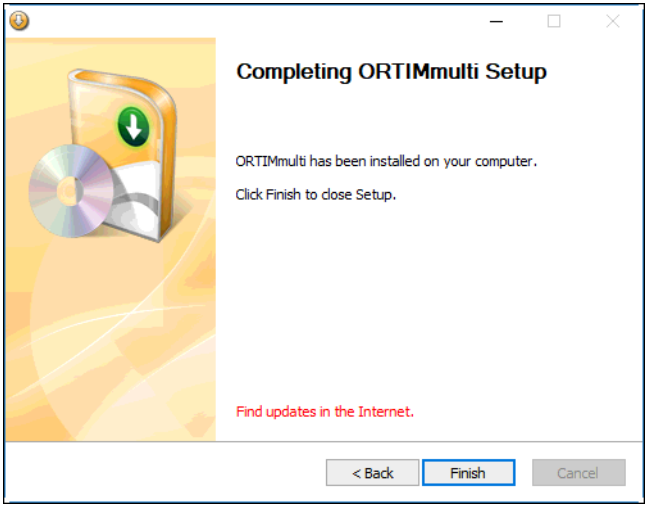


After that the license manager window is opened.



Completion of the installation procedure





Load software updates

ORTIMmulti is regularly supplemented by software updates. With software updates problems are eliminated that ORTIMmulti users have sent to dmc-ortim.

Note: Use the link on the last page of the installation wizard (*Find updates in the Internet*) to find software udpates directly after the installation. Download the installer for software updates and install the updates.

Click on the *Finish* button to conclude the setup.

The program has now been installed.

You may have to restart the PC after the installation. You will then be informed accordingly.

Note: If you have installed the program on a network server, it is necessary to perform the network workstation installation on each workstation in order to configure the workstations. During this process, the settings of the Zen database used by the program are adjusted correctly and a program icon is created.

4.3 Launching the program

ORTIMmulti is supplied with the *Softlock* program protection.

You will receive a license file from dmc-ortim, which you must install. The license must be activated. After starting the program, ORTIMmulti tries to establish a connection to the dmc-ortim activation server via the Internet. If successful, the license is activated permanently. If a connection cannot be established (e.g. because a firewall prevents this), you can also activate it manually. For details, see below section *Activate Softlock* (page 45).

When installing for the first time, the license data for the *Softlock* program protection are installed automatically with the program from the program CD. If you renew the program protection later, you will receive a license file on a data medium or from the Internet. You need to run this file to renew or change the license.

Softlock

dmc-ortim supplies the *Softlock* on a license CD or via e-mail in addition to the program CD.

Install Softlock

The license CD contains an executable file (EXE file). Insert the CD into your CD drive and launch the Explorer on your PC. Use the Explorer to access the CD drive and execute the EXE file by double-clicking on it with the mouse.

A detailed description of the Softlock can be found in chapter *Softlock* (page 73).

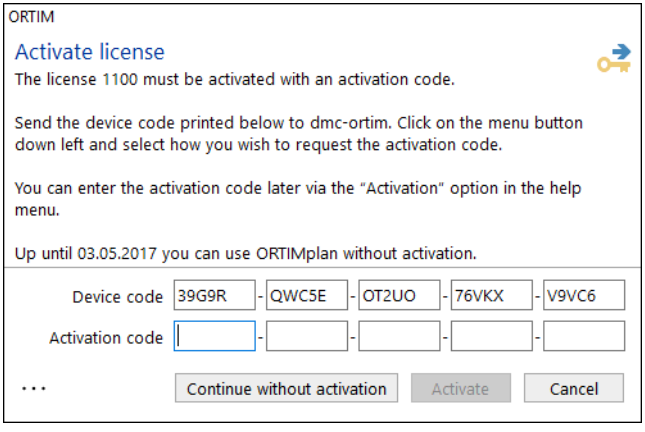
Activate Softlock

After launching the program, a window appears in which you are prompted to activate the Softlock.

Send the device code to dmc-ortim and subsequently enter the activation code you receive from dmc-ortim in the five input boxes.

If you install ORTIMmulti at a time when the dmc-ortim hotline is not manned (e.g. at night, at the weekend), you can also use the program for a short time without activation. To do this, select button "Continue without activation".

When you next start the program, you will be reminded to enter the necessary activation code.



4.4 Starting the program

When you start the program for the first time on your PC, you will be prompted to select the program language. Immediately after launching the program, the login window is displayed.

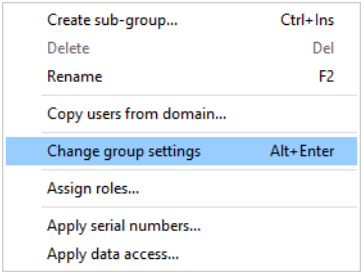
Log in here with the username “Abel” and password “a”.

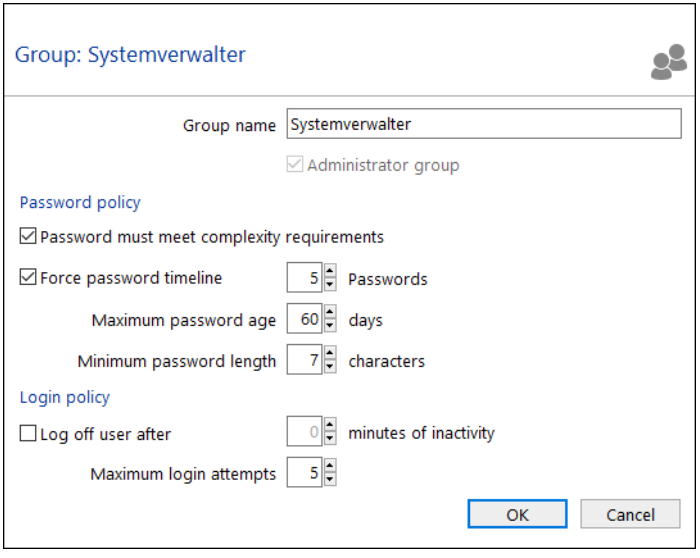
After successfully logging in, you will be prompted to change the password, since it does not comply with the security requirements.

Enter a new password twice. The new password must be at least seven characters long and comprise uppercase and lowercase characters, numbers and special characters.

Remember the new Administrator password.

The password rules are defined for the user group in the User Manager, where you can configure your own security settings.





Note: For security reasons, it is advisable to create your own Administrator user and to delete the predefined user "Abel" afterwards.

4.5 Assign serial numbers

If you use the Softlock program protection and you have received more than one serial number with your license, you need to divide up the serial numbers among your user groups. To do this, open the User Manager via Users and Groups in the ORTIMmulti main window. Select all the user groups one after the other and open the entry "Assign serial numbers" via the local menu.

All the available serial numbers are displayed in a list. Select the serial numbers whose program modules (described in the ORTIMmulti scope of delivery) match the chosen user group.

Further information can be found in chapter *Manage licenses* (page 75).

Problems on program startup

If the program generates error messages during the startup phase, this can be due to one of a number of reasons:

- insufficient PC user permissions
- inadequate settings for Btrieve Workstation Engine
- database problems

PC user permissions

Ensure that you have write access for the following directories:

- Data directory and all sub-directories,
- directory in which your application database is located.

Zen settings

The possible problems associated with the Zen database are described in a later section, namely section *Database status messages* (page 73).

Database problems

If the program generates an error message after logging on, problems with the application database are possibly to blame for this. If this happens, press and hold down the CTRL key after logging on. This will stop the application database from being opened automatically. You can then open the database manually. At the same time, additional checks are performed that help you narrow down the cause of the error.

Diagnosis and log file

If you are unable to resolve the problems using the method described above, you can perform a diagnosis of possible errors by selecting the command line option "/diag". If this diagnosis fails to resolve the problem, you can resort to the command line option "/diagnobtrieve". The result of this diagnosis is displayed in a window, which allows you to either save the diagnosis file or send it as an e-mail to dmc-ortim.

The command line option "/log" opens a window, which allows you to either save the log file generated by the program to a different location or send it as an e-mail to dmc-ortim.

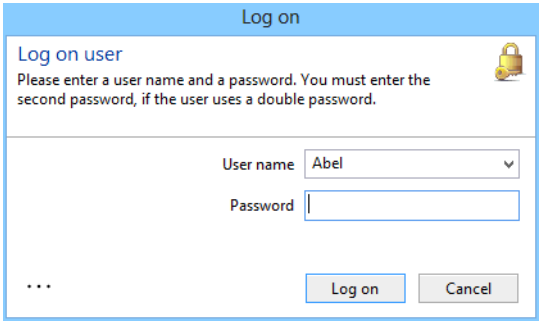
The command line option "/update" allows you to download the latest modifications and updates from the Internet in order to eliminate possible problems.

The command line option "/?" displays an overview of additional options.

Note: To launch ORTIMmulti with a command line option, it is possible to copy and edit the shortcut and enter the corresponding character string behind the file name Omulti.exe. Another option is to launch the program with the command line from the command prompt or to select "Run" from the Start menu on your PC.

Login user

Before you start working with the program, you need to log into the ORTIMmulti User Manager.

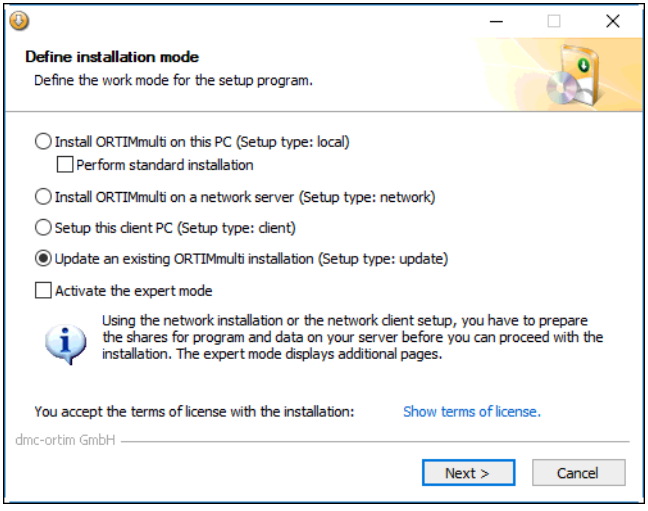


Enter **Abel** as your username, and **a** as your password in order to start the program for the first time. Once you have familiarized yourself with the way the User Manager works, you should create a new ORTIMmulti system administrator and delete the preset user *Abel*.

4.6 Update installation

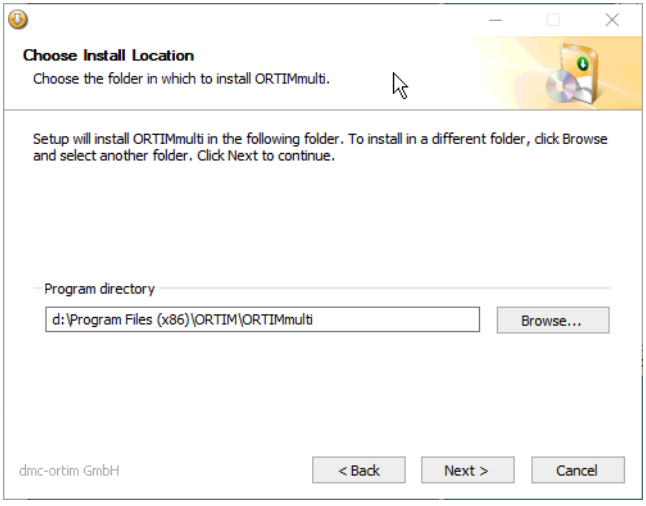
Setup type: update.

Choose install type *Update existing ORTIMmulti installation* to run the update/upgrade.



Choose install location

You will first be prompted to specify the program directory. Specify the ORTIMmulti program directory.



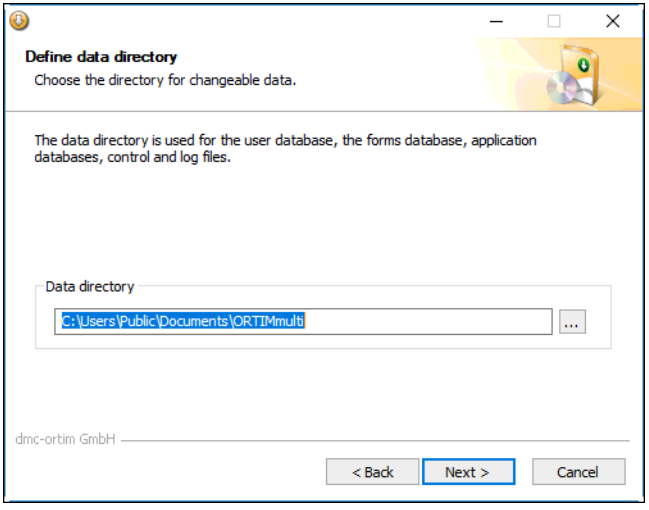
The program directory is the directory that contains the ORTIMmulti installation that you wish to update with the update.

If you have not yet installed ORTIMmulti on your system or if you have specified the wrong program directory, the *Next* button will not be available.

Click on *Next* to proceed with the update.

Check the data directory

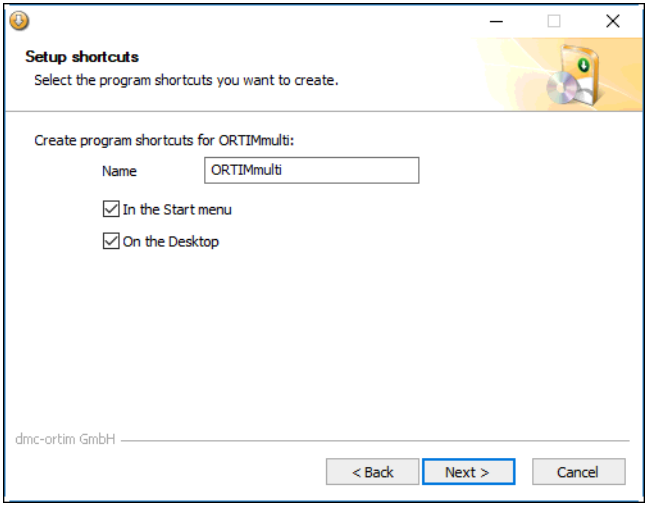
If the expert mode is selected, you can check which data directory belongs to the program directory entered before.



If the expert mode is not selected, this page does not appear.

Setup shortcuts

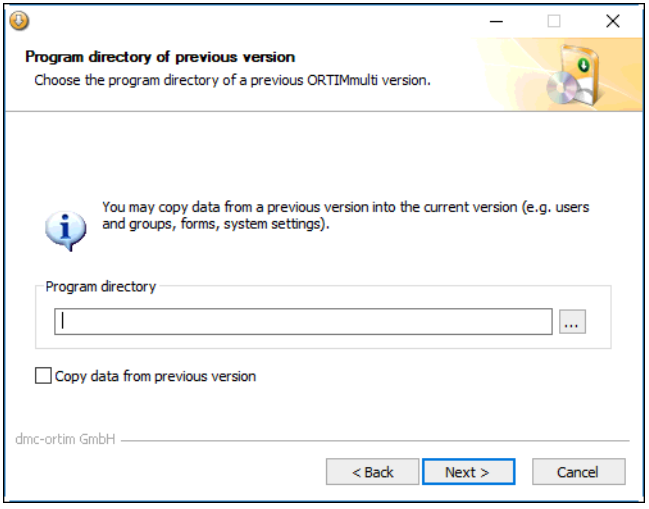
If the expert mode is selected, you can decide, where the program shortcuts are created.



If the expert mode is not selected, this page does not appear and no shortcuts are created.

Copy data from previous version

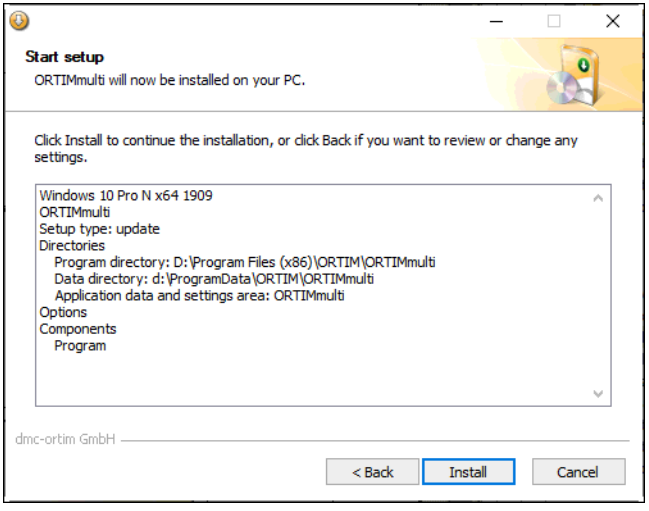
This screen only appears in expert mode.



If you run the update in the expert mode, you can copy files of a previous version to the current version.

Start setup

Clicking *Next* will display an overview page, showing the installation steps to be expected.



In order for the update to be performed correctly, all ORTIMmulti users are required to exit the program. If an application is running, the setup program will display a message, informing you that certain files could not be copied.

If this happens, exit the update, close ORTIMmulti and repeat the installation sequence for the update.

Note: If you have several updates and wish to install ORTIMmulti on a new PC, you only require the last update after performing a full installation.

4.7 Using updates

Incremental updated can resolve problems and provide new functions.

dmc-ortim provides an update page on the Internet.

Enter the following address in your web browser.

https://www.dmc-ortim.de/SoftwareUpdate/ORTIMmulti/4.1.0/changes_de-DE.html.

Updates are available to all users on the Internet support page. Click here to access the Internet Plug-In page.

Note: Before reporting a problem to the dmc-ortim hotline, you should always first visit the Internet support page printed above and load updates for your program version.

ORTIMmulti provides an automatic **Software Update Service**. This service enables the program to update itself. This involves setting up a connection to the Internet and searching for any plug-ins required for the particular program version you are using. The plug-ins can then be automatically loaded and installed, without having to exit the program.

Note: We recommend that you use the automatic Software Update Service if you have a direct connection to the Internet.

4.8 Configure program to run as service

If ORTIMmulti is installed on a network server, you can configure the program to run as a PC service for launching its own tasks without the need of a PC user to be logged on.

The setup program configures ORTIMmulti as a PC service. The setup program has to be run on the server on which ORTIMmulti is installed. During the setup, you will be prompted to enter an ORTIMmulti user and password. You configure this user beforehand in ORTIM-multi. Make sure that the user has a valid license.

> **Note:** The program needs the *Softlock* protection to be used as a service.

When do I need the service?

The service is useful, when the program has been setup on a central server und tasks should be performed periodically (e.g. data backup, database diagnosis). The service will execute these tasks even if no normal ORTIMmulti user runs the program. The tasks are executed with the best performance available.

ORTIMmulti users can assign the service user (e.g. *service*) to new tasks, for that the task is executed on the server. The service user is entered to the service, when the service setup program is startet (see below).

Do I need a separate license?

Yes, a normal license is required. The license has to be assigned to the service user in the user manager.

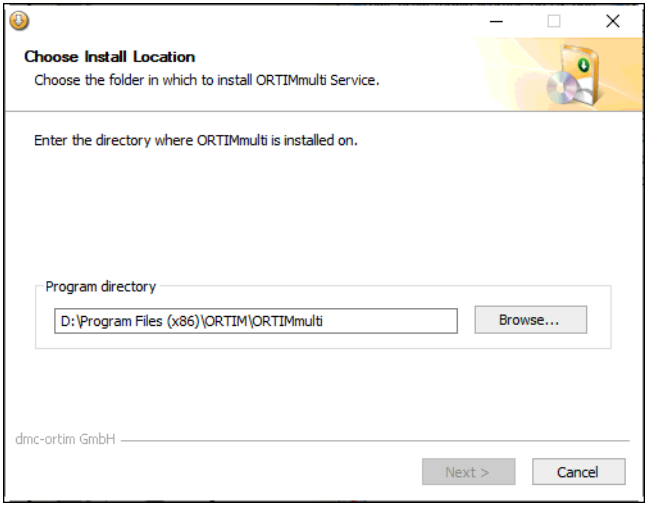
The license is for free, if it does not contain any program modul.

If you want to run a task that requires a special program module (e.g. task *ERP import* requires program module *ERP interface*), the license must contain the program module.

Setup service

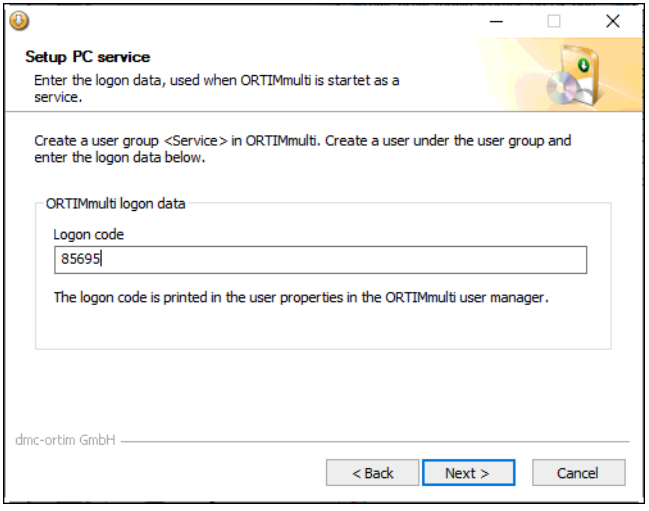
The PC service is configured by the separate installation program *SetupORTIMmultiService.exe*.

Enter the program directory of the ORTIMmulti installation.

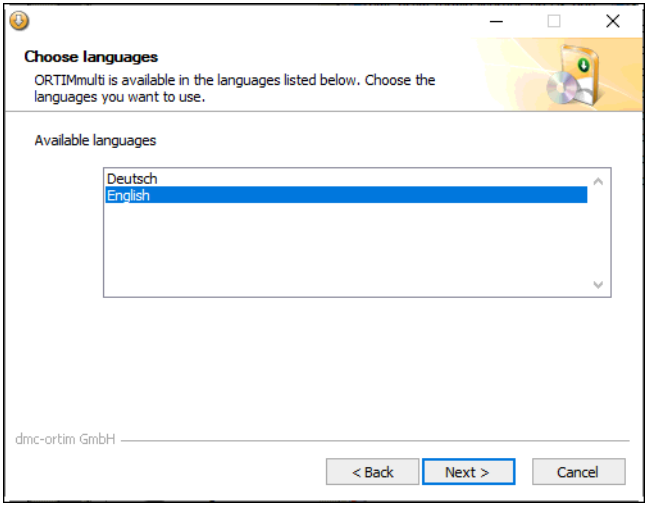


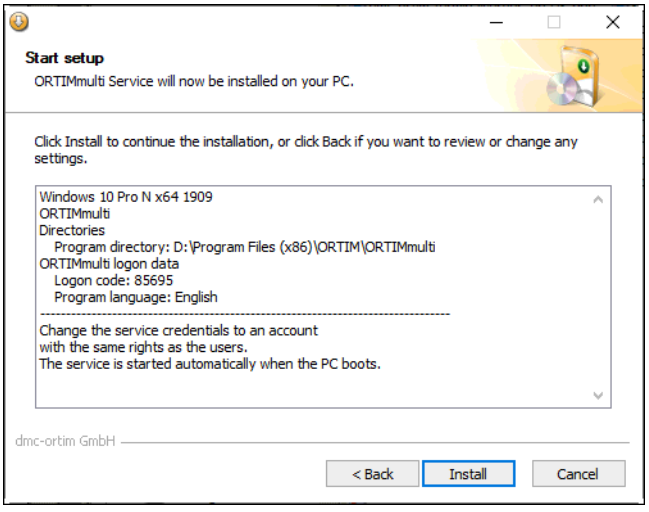
Enter the logon code for an ORTIMmulti user. The user must be added in the ORTIMmulti user manager before. Be sure that the user uses a valid license.

The logon code is printed in the user properties dialog and can be copied to the Clipboard.



Enter the language the service uses for printing messages to the task log.



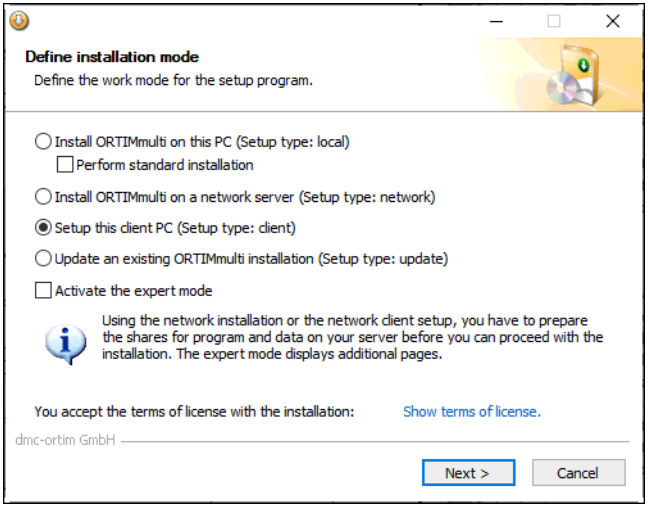


Press *Install* to install the service.

4.9 Setup a client PC

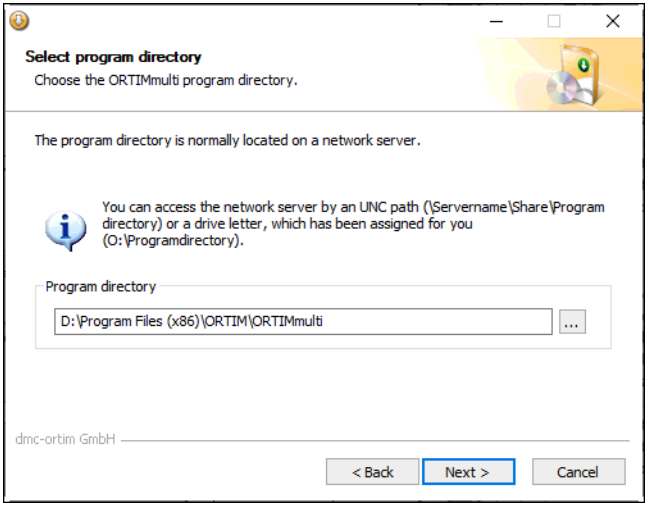
Setup type: client.

If you wish to configure a network workstation, choose installation type <Setup client PC>.



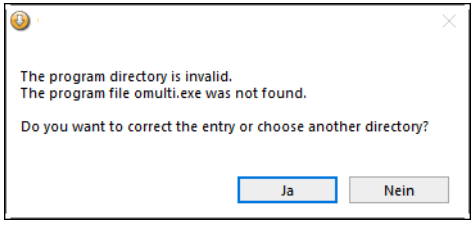
Choose program directory

On the next page you can enter the During the installation, specify the network directory in which the program is located.

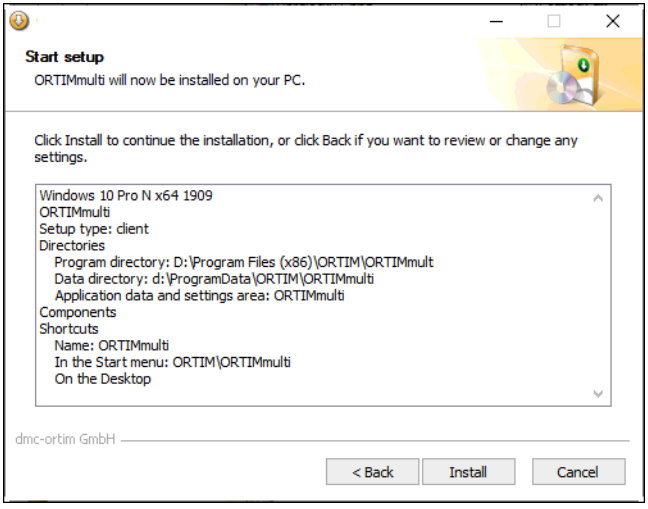


Enter the network directory directly into the entry field or press the ... button to open a directory chooser.

If the following message appears, you can enter the network server credentials and try again.



All settings are printed on an overview page.



Press *Install* to run the workstation setup.

If no database **Zen Client** is installed on the workstation PC, the Zen Client database is automatically installed with ORTIMmulti . The database is integrated in the ORTIMmulti installation.

4.10 Terminalserver/Citrix Metaframe

ORTIMmulti can be used without any restrictions on a Terminalserver or Citrix Metaframe system

4.11 Possible application scenarios

Standalone workstation application

When used on a standalone workstation, the program is installed on the user's PC. Initially, a full installation is performed.

Program updates can be used later to upgrade this installation to the latest version. If a number of consecutive updates are available, only the last one is required.

The settings and application database are located on the PC.

Network application

When the ORTIMmulti is used within a network, the program is installed on a network server. Initially, a full installation is performed.

Program updates can be used later to upgrade this installation to the latest version. If a number of consecutive updates are available, only the last one is required.

It is necessary to perform the network workstation setup on each PC on which the program is to run. This will configure program icons in the Start menu.

The workstation settings are located on each PC, whereas the system settings are managed centrally within the system directory and application databases are generally located in the central database on the network server.

Training application

When the program is used for training purposes, both of the above-mentioned procedures are possible in principle.

Network application is undoubtedly easier, since the program only has to be installed (or updated) once.

The important thing to remember when the program is used for training purposes is that each course participant must work on a separate database, as the program's network locking mechanisms will otherwise come into effect. This means that an object can only be edited by one person at any one time. None of the other persons can modify the object in question and will receive a corresponding message should they select the object.

For training purposes, copy the database to be used onto each PC.

Note: Both program updates as well as the preparation of the databases should be performed prior to the start of the training course.

Launch the program once to ensure that all the steps of the setup procedure have been completed successfully. If you use more than one workstation, it is also important to start the program simultaneously on all the individual workstations, as some problems will only become apparent in doing so.

It is important to perform this test run as a user (and not as an administrator).

If you encounter problems during this phase, you will find detailed trouble-shooting solutions in the following section. The program has been successfully launched if it is possible to sign on as a user (after shipment the username "Abel" with password "a" are available at this stage).

Also take account of all the available plug-ins and utility programs available for downloading from the dmc-ortim Internet web site.

Test installation

If you wish to test the new ORTIMmulti program version prior to using it, you can carry out the installation on the same PC or server. During the installation, select the expert mode (see above, page 26) and enter unique designations for the test installation. It is then possible to run the test installation without it impacting on an existing installation.

Note: **Always** be sure to use copies of your databases for test purposes.

Other application scenarios

Further applications are of course possible that are not described in detail here.

4.12 Configuring the program on a new PC

If you wish to move an existing network workstation onto a different PC, depending on the program settings, you may not need to perform all the backup steps.

Nevertheless, we would advise you to perform the backup steps mentioned in the following in full.

Backup files

If you have already used ORTIMmulti and are about to change over to a new PC, you should first save a number of files.

> **Note:** The easiest way is to perform the backup via ORTIMmulti itself. To do this, use task "Data backup" in the ORTIMmulti Task Scheduler (a detailed description can be found in "Basics" user manual).

Application databases

The application databases are located in the set database directory. Generally speaking, this is the directory called "Daten" (*Data*) - a subdirectory of the ORTIMmulti data directory.

Create backup copies of the "Basis", "Mdata" and "Costs" databases.

Forms database

The *OMFORM.BTD* forms database is located in the set system directory. Generally speaking, this is the directory called "System" - a subdirectory of the ORTIMmulti data directory.

Create a backup copy of the forms database.

Time category allowances

Some time category allowances are saved in file *OMULTI.CFG* in the set system directory.

Create a backup copy of the time category allowances.

Settings

The program settings are stored in the registry on your PC.

```
HKEY_CURRENT_USER
\Software
\ORTIM Industrial Engineering Deutschland GmbH
\ORTIMmulti
\Settings.
```

Furthermore, the program directory may also contain files *PSQL.INI*, *PPS.INI* and *CONTROL.INI*. Some of these files are optional, i.e. they are not always present.

Create a backup copy of the settings files.

User Manager

Generally speaking, the user database called *OMUSER.BTD* is located in the data directory of ORTIMmulti.

Create a backup copy of the user database.

Customer files

dmc-ortim provides customer specific time category classifications and analysis systems.

Time category classifications (* .ZMB)

The customer specific files must be copied to the **NLS\English\Time Categories** directory.

Analysis systems (* .ANA, * .CFA)

The customer specific files must be copied to the **NLS\English\Analysis** directory.

5 Database Actian Zen

The database Zen v15 Workgroup is delivered with dmc-ortim programs.

Note: If you are already using a previous version of PSQL Workgroup and have a license for it, you can download the corresponding version from the Internet during the installation and install it instead of the integrated database.

Database Actian Zen offers

Industry-leading performance

- Btrieve® Performance - transactional API for the fastest access to your data.
- Improved SQL Optimizer - delivers faster SQL performance. ODBC, JDBC, ADO / OLE DB and PDAC all take advantage of these improvements.
- Turbo Write Accelerator - maximizes the efficiency of your disk I/O.
- Full backward compatibility - leverage your legacy applications and databases.

Low Total cost of ownership

- Auto-Reconnect technology - avoids minor networking issues by seamlessly reconnecting workstations to a server engine in case of a network error.
- Cross-platform dynamic parameters - no need to remaster the database environment from platform to platform.
- Cross-platform consistency - common behavior across all editions and platforms simplifies cross-platform deployment and administration.
- Server/Requester version independence - dramatically simplifies your deployment.

5.1 Using the Database Actian Zen

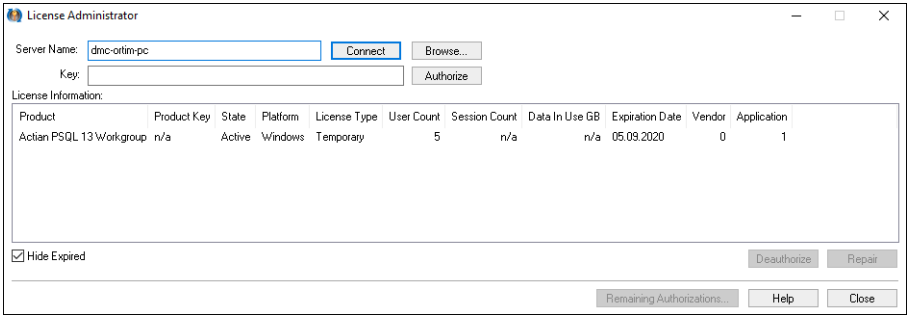
ORTIMmulti is prepared for the use of the Zen database. After installing the Zen database software, it is automatically recognized and used by ORTIMmulti.

Manage database licenses

The Database Actian Zen is installed with a 30-day trial license.

After this test period, the database can no longer be used. The **status code 161** is then displayed in ORTIMmulti.

It is best to enter the license key in the Key input field immediately after installation and activate the license with *Authorize.*



You need an internet connection.

> **Note:** The Internet connection is established via the standard HTTP port 80. If you want to configure your firewall specifically or for example, if you are using a proxy server, please contact dmc-ortim for details about the activation servers and proxy settings.

The activation can only be performed directly on a PC or a PC / server console. A remote desktop connection does not allow activation.

5.2 Database status messages

Status 2

If this status occurs during the program startup phase, this means that the reported file is corrupt.

Otherwise you can reorganize the reported file.

Status 9

If this status occurs during the program startup phase, this means that the program has not been set up correctly. The reason for this may be faulty data carrier (CD). If you encounter this problem, contact dmc-ortim in order to obtain a new data carrier.

Status 12: File not found

This status can occur in rare cases on launching the program. This can be caused by client software used for integrating drives on a network server. In this case, it is necessary to re-install the dmc-ortim software. In doing this, a destination directory that contains no blanks should be specified.

Status 20: The file manager is not active

Status 81: A lock error was encountered

Status 85: The file is locked

Status 88: The application encountered an incompatible mode error

Status 161: The Zen database has not been activated.

After a 30-day test phase in which the database can be operated without activation the status code 161 is displayed. This means the test phase has ended.

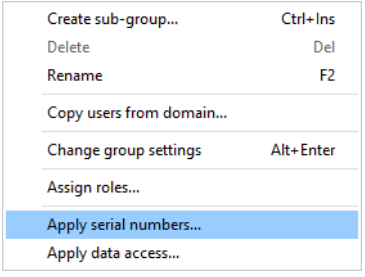
Enter the **product key** you have received from dmc-ortim into the **License Administrator** to activate the Database Actian Zen permanently.

6 Manage licenses

Each license/serial number is associated with a specific module constellation. Refer to the supplied printout containing the license data for the assignment between the licenses/serial numbers and the program modules.

After signing into the program for the first time, it is necessary to use the ORTIMmulti user manager facility to configure user groups and users. It is then necessary to assign licenses/serial numbers to the groups or users.

The menu options in the user manager are enabled if the particular users or groups are selected. The "Key" option allows you to assign a license/serial number (e.g. 743301) to a user or an entire group. After signing into ORTIMmulti, a program key with the assigned license/serial number is generated for the user.



The following screenshot shows a possible assignment of licenses/serial numbers to user groups.



Name	Description	Type	Roles	Serial numbers	Data access
CAPP-Knowledge		Group	CAPP-Knowledge	all	all
Service		Group	Service	110099	all
User		Group	User	110001	all
Administrator		Group	Administrator	110000	all

The key generated is used to attempt to sign in at the Softlock. If successful, no further measures are necessary.

If your attempt to sign in at the Softlock fails (because e.g. all the locks have been allocated for the corresponding licenses/serial numbers), it is possible to generate further keys. To do this, the user or the group must be granted the permission to work with other keys as well via option "Rotate keys...".

In the example above, license/serial number 700101 has been assigned to the group "Users", although the rotation procedure has not been enabled.

Note: We recommend that you create a separate user group for each license/serial number and assign the license/serial number to the particular group. All users subsequently assigned to the group are then automatically signed in for the Softlock with the assigned license/serial number.
Licenses/serial numbers should only be assigned to individual users in exceptional cases.

7 Annex

7.1 Description of the control file for installing and uninstalling ORTIMmulti

It is possible to use the SETUP.INI control file to influence the setup, updating and uninstalling of ORTIMmulti.

The file must be located in the same directory as the setup or update program in order for it to be read and used. Normally speaking, the control file is not present. In this case, the default values described in the following are used.

Setup

Silent

Description	Controls the working mode of the setup program. In Silent mode, the setup program runs without a program window being opened. All the settings are read from the control file.
Possible values	0 or 1
Default	0

Client

Description	Controls the working mode of the setup program. In Client mode, the setup program will setup the current to PC for the program already installed on a network server.
Possible values	0 or 1
Default	0

License

Path

Description	Path of the license zip file deployed by dmc-ortim.
Possible values	A valid file name
Default	none

Pages

Data

Description	Determines whether or not the screen used for defining the data directory is to be displayed. If the screen is not opened, the data directory is not set and is then identical to the program directory.
Possible values	0 or 1
Default	1

AppData

Description	Determines whether or not the screen used for defining the application data directory is to be displayed. If the screen is not opened, the application data directory is not set and is then identical to application data directory for the currently logged on PC user.
Possible values	0 or 1
Default	1

Settings

Possible values	0 or 1
Default	1

Shortcuts

Possible values	0 or 1
Default	1

AccessControl

Possible values	0 or 1
Default	1

SoftwareUpdate

Possible values	0 or 1
Default	1

PSQL

Description	Determines whether or not the screen used for defining the Zen Workgroup settings is to be displayed.
Possible values	0 or 1
Default	1

LanguagePacks

Possible values	0 or 1
Default	1

Service

LogonCode

Description	The logon code can be used for an anonymus logon.
Possible values	A valid logon code
Default	none

Language

Description	The language, the service should use.
Possible values	An installed language
Default	The system language

ProgramDir

Path

Description	Path of the program directory (e.g. %PROGRAMFILES%\ORTIMmulti 4.1).
Possible values	A valid directory
Default	%PROGRAMFILES%\ORTIM\ORTIMmulti

Validate

Description	Determines whether or not the specified program directory is validated. If this check is enabled and the specified directory does not exist, the default will be used.
Possible values	0 or 1
Default	1

DataDir

Path

Description	Path of the data directory (e.g. D:\ORTIMmulti). The directory must be accessible to all ORTIMmulti users within the network. All the users require write access to the data directory.
Possible values	A valid directory
Default	C:\ORTIM\ORTIMmulti

Validate

Description	Determines whether or not the specified data directory is validated. If this check is enabled and the specified directory does not exist, the default will be used
Possible values	0 or 1
Default	1

Create

Description	Determines whether or not the data directory is to be created.
Possible values	0 or 1
Default	1

Grant

Description	Determines whether or not write access is to be assigned to the data directory. If this denied in the setup program, it is necessary to assign the write access manually. All users must have write access to the data directory.
Possible values	0 or 1
Default	1

Components

Program

Description	Installs program files.
Possible values	0 or 1
Default	1

PSQL

Beschreibung	The database Zen Workstation will be installed (if available) or not. The setup files for the Zen database are searched in the subdirectory \PSQL of the directory containing the program setup.
Possible values	0 or 1
Default	1

LanguagePacks

Deutsch | English

Description	Determines if a language pack is automatically installed with the full installation. Requires an existing language pack setup file (e.g. SetupEnglish.exe) in the same directory as of the setup file.
Possible values	0 or 1
Default	1

Update

Description	Determines if a language pack is automatically installed when an update is installed. Requires an existing language pack setup file (e.g. SetupEnglish.exe) in the same directory as of the update file.
Possible values	0 or 1
Default	1

Language

Default

Description	Determines the program language for the first program start.
Possible values	An installed language
Default	none

Shortcuts

Instructions

Description	Show setup instructions in Start menu.
Possible values	0 or 1
Default	1

Manuals

Description	Show manuals in Start menu.

Possible values	0 or 1
Default	1

IconName

Description	Name of the shortcut on the Desktop and in the Start menu.
Possible values	A string
Default	The program name

StartmenuIcons

Description	Creates shortcuts in the Start menu. On an additional screen, it is possible to define the Start menu.
Possible values	0 or 1
Default	1

DesktopIcon

Description	Creates a shortcut on the Desktop.
Possible values	0 or 1
Default	1.

Note: The shortcuts in the Start menu and on the Desktop are created for all PC users. Due to PC restrictions, the shortcut in the Quick Launch bar can only be created for the current user. If ORTIMmulti is installed by an administrator, and the program is subsequently launched by different PC users, the icon will not be available in the Quick Launch bar.

SoftwareUpdate

Activate

Description	Controls the settings for the automatic Software Update.
Possible values	0 (turn off), 1 (turn on), -1 (define on first program launch)
Default	-1

PSQL

Service

Description	Determines the installation mode of the Zen Workgroup.
Possible values	0 (install as application), 1 (install as Windows service)
Default	0

Version

Description	Specifies the Zen Workgroup version to use.
Possible values	13 or empty (download and install PSQL Workgroup v11 SP3)
Default	empty

Autostart

Description	Only valid for the separate Zen Workgroup installation.
Possible values	0 or empty (performs full installation with all choices - directories, components), 1 (performs the installation with default settings).
Default	empty

Uninstall

Silent

Description	Controls the working mode of the uninstall program. In Silent mode, the uninstall program runs without a program window being opened. All the settings are read from the section "Uninstall" of the control file.
Possible values	0 or 1
Default	0

Settings

Description	Remove settings.
Possible values	0 or 1
Default	1

Data

Description	Removes program data (e.g. user manager, forms, tasks, journal, application databases).
Possible values	0 or 1
Default	0

System variables

The system variables can be used in the path specifications for "ProgramDir", "DataDir" and "BtrieveDir".

%PROGRAMFILES%

This variable is replaced by the program directory set on your PC (e.g. C:\ProgramFiles).

%SYSTEMROOT%

This variable is replaced by the Windows directory set on your PC (e.g. C:\WINDOWS).

%PROGRAMDIR%

This variable is replaced by the current value for the progam directory.

Return values of the setup and uninstall program

The setup and uninstall program generates the following return values when executed on a system console or in a command script.

0	Normal execution (no errors).
1	Setup aborted by user (“Abort“ key selected).
2	Setup aborted by script (error during execution).

Example

```
; Contents: This file controls the behavior of installers and
uninstallers.
; Files: Setup.exe, SetupDeutsch.exe, SetupEnglish.exe,
; SetupClient.exe, Update.exe.
; Description: The file is sought in the directory where the installer
; or uninstaller is located.

;
================================================================
===============
; ==================================  Errorlevel
================================
;
================================================================
===============
; 0 - Normal execution (no error)
; 1 - Installation aborted by user (cancel button)
; 2 - Installation aborted by script

;
================================================================
===============
; ==================================  Installer
================================
;
================================================================
===============
; Section: Installer behavior
; Description: When the installer runs in silent mode, the components
; will be installed as specified in section “Components”
; Default: Silent=0
[Setup]
Silent=0

[Pages]
Btrieve=1
Data=1

; Section: Program directory
; Description:The program directory is the directory, where the program
; files are installed. The program directory is read only.
; Default:%PROGRAMFILES%\ORTIM\ORTIMmulti, Validate=1
; Path:The path of the program directory
; Validate:Check if the directory exists. If not, use the default.
[ProgramDir]
;Path=%PROGRAMFILES%\ORTIM\ORTIMmulti
Path=D:\Programme\ORTIM\ORTIMmulti
Validate=0

; Section: Data directory
; Description:The data directory is used for the programs data files.
```

```
; Each user must have write access to the directory and
; all subdirectories and must have the right to create new files.
; Files:Benutzer.btd, Tasks.btd, Journal.btd, Omform.btd,
; application database, key files, log files
; Grant read and write access
; Default: C:\ORTIM\ORTIMmulti, Validate=1, Create=1, Grant=1
; Path: The path of the data directory
; Validate: Check if the directory exists. If not, use the default.
; Create: If the directory does not exist, create it.
; Grant: Grant the necessary user rights (write access for PC
; usergroup “Everyone”) to the directory.
[DataDir]
;Path=C:\ORTIM\ORTIMmulti
Path=D:\ORTIM\ORTIMmulti
Validate=0
Create=1
Grant=1

; Section: Btrieve directory
; Description: The directory must be on the local machine.
; Each user must have write access on the directory.
; Default: %SYSTEMROOT%\Temp, Validate=1, Create=1, Grant=1
; Path: The path of the Zen directory
; Validate: Check if the directory exists. If not, use the default.
; Create: If the directory does not exist, create it.
; Grant: Grant the necessary user rights (write access for PC
; usergroup “Everyone”) to the directory.
[BtrieveDir]
;Path=%SYSTEMROOT%\Temp
Path=C:\Windows\Temp
Validate=0
Create=1
Grant=1

; Section: Cmponents
; Default: Backup=1, Program=1, Libraries=1, BtrieveFiles=1,
; BtrieveSettings=1, StartmenuIcons=1, DesktopIcon=1
; Backup: Create a backup of the program files, when an update is
installed.
; Program: Install the base program files.
; Libraries: Install the system libraries (DLLs and other stuff).
; BtrieveFiles: Install the Btrieve Workstation Engine 6.15.
; BtrieveSettings: Set the correct settings to enable Btrieve to run.
[Components]
Program=1
Libraries=1
BtrieveFiles=1
BtrieveSettings=1

; Section: Shortcuts
; Default: ORTIMIcon=1, StartmenuIcons=1, DesktopIcon=1
; ORTIMIcon: Set a special ORTIM icon for the start menu folder
; StartmenuIcons: Create icons in the Start menu on your PC.
```

```
; DesktopIcon: Create an icon on the PC desktop.
[Shortcuts]
ORTIMIcon=0
StartmenuIcons=1
DesktopIcon=1

; default language for the first program start
[Language]
Default=Deustch

;
;================================================================
===============
; ================================== Uninstaller
==================================
;
;================================================================
===============
; Section: Uninstaller behavior and components.
; Default: Silent=0, Settings=1, Data=0.
; Silent: Run the uninstaller in silent mode.
; Settings: Uninstall the program settings from the registry.
; Data: Uninstall the data created or modified by the program.
[Uninstall]
Silent=0
Settings=1
Data=0
```

7.2 Description of the program control file

The items in file CONTROL.INI may control the behavior of the program.

Directory

AppData

AppData=CurrentUser | AllUsers | Personal | Windows | User | Custom

Path

if AppData=Custom, a directory must be inserted

User

Path

if AppData=User, a directory must be inserted

AppDataDirectory

Path

insert a valid directory relativ to the %APPDATA% variable.

> **Note:** Do not use directories or directory variables that point to a central network directory (eg. %PROGRAMDATA%).

Settings

Key

ORTIMuser | User | Custom

Custom

if Key=Custom, a key must be inserted

User

Key

if Key= User, the value of the key {Key} is inserted in section {User}

UserManager

MinPwdLength

Number of characters.

The default value is 0. 0 means that the user may have no password.

Logging

License timer

Enable or disable the license timer logging.

Possible values: 0 or 1, default is 0.

Shutdown procedure

Enable or disable the shutdown procedure loggin.

Possible values: 0 or 1, default is 0.

OpenSSL

Version

Specifies the version of the OpenSSL libraries used. You should only change the version from 3 to 1 after consulting dmc-ortim.

Possible values: 1 or 3, default is 3.

ImageLibrary

Cache

Determines whether the program libraries ortim32.dll and office.dll, which contain the images, symbols and icons used in the program, are copied to the local AppData folder and used or not when installed on a network server. Local use reduces network load. If there are problems with the version of the local files, access can be made directly to the network server. To do this, enter the value 0.

Possible values: 1 or 0, default is 1.

Setup the application data directgory

The license file and the user manager database are stored in the application data directory.

The app data directory is not fix. The directory is managed by Items in the control file CONTROL.INI.

The default directory is the personal app data directory on your PC.

So every user has its own log and key file.

Example

```
[Directory]
AppData=CurrentUser
```

Data are stored in the personall app data directory (default).

```
[Directory]
AppData=User

[User1]
Path=C:\ORTIM\User1
```

If the PC user *User1* is logged on, data are stored in directory *C:\ORTIM\User1*.

```
[Directory]
AppData=Custom
Path=C:\Settings
```

The settings for all users are stored in directory *C:\Settings*.

```
[AppDataDirectory]
Path=%APPDATA%\ORTIM\ORTIMmulti 6.0
```

Setup the registry key under which the program settings are stored in the PC registry.

With *ORTIMuser* seperate settings are used for each PC user.

With *User* the key inserted in the ORTIM user section is used.

With *Custom* a user independet key can be used.

```
[Settings]
Key=ORTIMuser
```

If ORTIM user *Abel* is logged on, the settings are managed under key *Abel*.

```
[Settings]
Key=User
[Abel]
Key=Administrator
```

If ORTIM user Abel is logged on, the settings are managed under key *Administrator*.

```
[Settings]
Key=Custom
Custom=ORTIM
```

The settings are managed under key *ORTIM*.

Setup the minimum password length

Example

```
[UserManager]
MinPwdLength=8
```

Enable logging

Example

```
[Logging]
License timer=1
Shutdown procedure=1
```

7.3 Description of the control file for the Zen database

The BTRIEVE.INI controls the bahavior of the Zen database.

Control file BTRIEVE.INI

Btrieve Server

Server

Value 0 turns off the server, value 1 turn the server on.

Possible values:

0=turn off,

1=turn on.

default is 1.

Object Converter

Extentcheck

The meta data on storing.

Possible values:

0=turn off,

1=turn on.

default is 1.

IgnoreErrors

Ignore errors loading objects.

The application then is served with nil values.. the application may manage these values.

This settings should only be used temporary.

Btrieve Client

CheckAccess

Enable or disable the network access control.

Possible values:

0=turn off,

1=turn on

default is 1.

CheckRemote

Enable checking of the Zen database during the program startup.

Print a warning, if a client is used with a local setup.

Possible values:

0=do not check,

1=check.

default is 1.

LogStored, LogRemoved, LogLocked

Log deleted objects.

Possible values:

0=turn off,

1=turn on.

default is 0.

MaxCacheSize

Maximum number of objects stored in the clients database cache.

default is 10000.

NumberOfLoadTries

Number of tries when loading a locked object.

Possible values: 1 to 100, default is 3.

NumberOfStoreTries

Number of tries when saving a locked object.

Possible values: 1 to 100, default is 5.

NumberOfLockTries

Number of tries when locking a locked object.

Possible values: 1 to 100, default is 1.

TimeToWait

Millisecond time to wait between multiple tries.

Possible values: 50 to 60000, default is 1000.

WaitAfterOpen

Milliseconds time to wait after a Zen database is opened. Use this setting when the Zen Workgroup is installed as application and Zen status code 3012 is reported when starting the program.

Possible values: 0 to 10000, default is 0.

WaitAfterCreate

Milliseconds time to wait after a Zen database is created before it is first opened. Use this settings, if your domain controller is far away (accessing the file priviliges take a little time).

Possible values: 0 to 60000, default is 0.

WarnDBID

Print a message when the database server cannot be found.

Possible values:

0=do not print message,

1=print message.

default is 0.

The following options are not necessary for PSQL versions greater 9

OpenMode

Setup the database open.

Possible values:

1=use complete path,

2=jump to directory, only use file name.

default is 1.

Cache

PSQL cache in kb.

Possible values: 512 to 16384, default is 512.

AnsiToOem

ANSI to OEM character transformation for file names.

Possible values:

0=do not use,

1=always use,

6=use for Btrieve 6.

default is 6.

ShortPathName

Use short path names. Determines, if the 8.3 naming convention should be used or not.

Possible values:

0=do not use,

1=always use,

9=use for PSQL 6 to 9.

default is 9.

ShortPathNameMode

Setup the PC functions for the 8.3 naming convention (getShortPathName or get83FilePath).

Possible values:

1=first getShortPathName, if not successful use get83FilePath,

2=always use getShortPathName,

3=always use get83FilePath.

default is 1.

7.4 How does the license file work?

The *license* works on the basis of the lock and key principle. dmc-ortim provides a series of keys and locks within the *license* database. For each lock it is defined which keys "fit". Registration in terms of the *license file* implies selecting a key and searching for a lock that fits it. If a matching lock is found that is not "taken" (assigned) by a key, the key will be inserted into the lock. This means that the lock is now assigned and can no longer be used by other keys. Only on exiting the program is the key removed from the lock, meaning that the lock is free again, thus allowing it to be used again.

7.5 Control of automatic activation

The automatic license activation is performed via the TCP port 80.

If this port is not enabled for ORTIMmulti, the activation can not be performed.

If you use a proxy server or another port, you can change the port in the *activation.ini* file (ORTIMmulti program directory).

```
;Parameters for license activation via the Internet

[Client]
address=activation.dmc-ortim.de
object=activation
port=80
```

7.6 License file status messages

If the license reports a problem when a user attempts to sign in, you can ascertain the cause and find a solution from the following description.

Check in advance whether the ORTIMzeit data directory has comprehensive access rights (full access).

1001	No lock available e.g. if the license has expired. Contact dmc-ortim to obtain an update for your license.
1002	Invalid lock if a matching lock is assigned. All the program accesses for a serial number are assigned. A different user first has to exit the program before you can work.
1003	The lock is locked if an access conflict arises. A different user in the network is in the process of signing in. Try to sign in again later after waiting a short while.
1004	The database server is not available for the license file. The settings for the database are incorrect. These settings must be the same on all the PCs.
1005	The number of days of usage has expired: Your license has expired. Contact dmc-ortim to obtain an update for your license.
1006	Utilization period exceeded: Your license has expired. Contact dmc-ortim to obtain an update for your license.
1007	No lock for serial number. All the program accesses have been assigned for a serial number. A different user first has to exit the program before you can work.
1008	Error when saving during the signing in process. A different user in the network is in the process of signing in. Try to sign in again later after waiting a short while.
1009	No activation code: The license is has not yet been activated. The license should be activated when used for the first time. Contact dmc-ortim in order to obtain an activation code. For this purpose, you are required to send dmc-ortim your serial number and the device code. You can, however, continue to work for a temporary period of one week without having activated the license.

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