



DME
d m c - o r t i m

ORTIMzeit

Installation

ORTIMzeit Installation

Version 8.0

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The installations of ORTIMzeit and ORTIMzeit Starter-Edition are identical.

ORTIMzeit is displayed as the program name during both installations. The designation ORTIMzeit is used in the following.

1.1 System requirements

To run ORTIMzeit, 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 10 or newer and 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. Approximately 300 MB of free space is required for complete installation. At least 1 GB of additional hard disk space should be available for application data.

The PC must be connected to the internet at least every 30 days, or preferably permanently, to verify the license.



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 10, Windows 11

The main memory size should be at least 4 GB. A dual-core CPU is highly recommended.

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 Security

The following mechanisms protect your data from unauthorized access:

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

Access authorization

Within the user management system, each licensee can configure access authorization according to their organization and delegation structure. Users are granted access to the parts of the program they are intended to work with. Access to parts of the program they are not intended to use can be blocked by the licensee in the user management system.

Users can be grouped together, and permissions can be managed via roles.

It is important to ensure that there is always a user group with access authorization to all parts of the program, and that at least one user is assigned to this user group. Otherwise, it may happen that no user is authorized to grant access to blocked parts of the program! (If necessary, the user management system must be reinstalled.)

During the program installation, the system administrator (with the user name "Abel" and the password "a") is granted access to all parts of the program. Once the user management system has been adapted to the licensee's organization, the user "Abel" should be deleted.

Encryption

All data requiring security protection ORTIMzeit writes onto the hard disk are automatically encrypted. This ensures that neither the data, texts or settings can be accessed without using the program.

Access control within a network

When using the program in a multi-user environment (e.g., on a network), it is necessary to regulate access to the program's data so that there are no conflicts when writing changes.

ORTIMzeit requests a lock from the study administration for each study. If the lock is not provided because the study is being edited by another party, the data is released for viewing only. No changes can be made.

Program protection

License file

the license file is the default program protection for ORTIMzeit.

The license consists of a central database in which all the important information is stored. This database OZLOCK.OTMX) is installed in the program directory of ORTIMzeit. For this purpose, a small setup program is supplied either on a disk or sent to you via e-mail.

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 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.

If ORTIMzeit encounters a license database during the program startup phase, a special program is launched which, in a different way to the dongle, first implements the registration for the ORTIMzeit user manager, before going on to check the program protection facility.

When using the dongle, it is necessary to create a program key for each ORTIMzeit workstation by entering your license holder details, serial number and registration code. This procedure is no longer necessary when using the license file. The software protection facility recognizes all the access data and is capable of generating program keys automatically.

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.

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

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

2.1 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 ORTIMzeit 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.

2.2 dmc-ortim terminal server

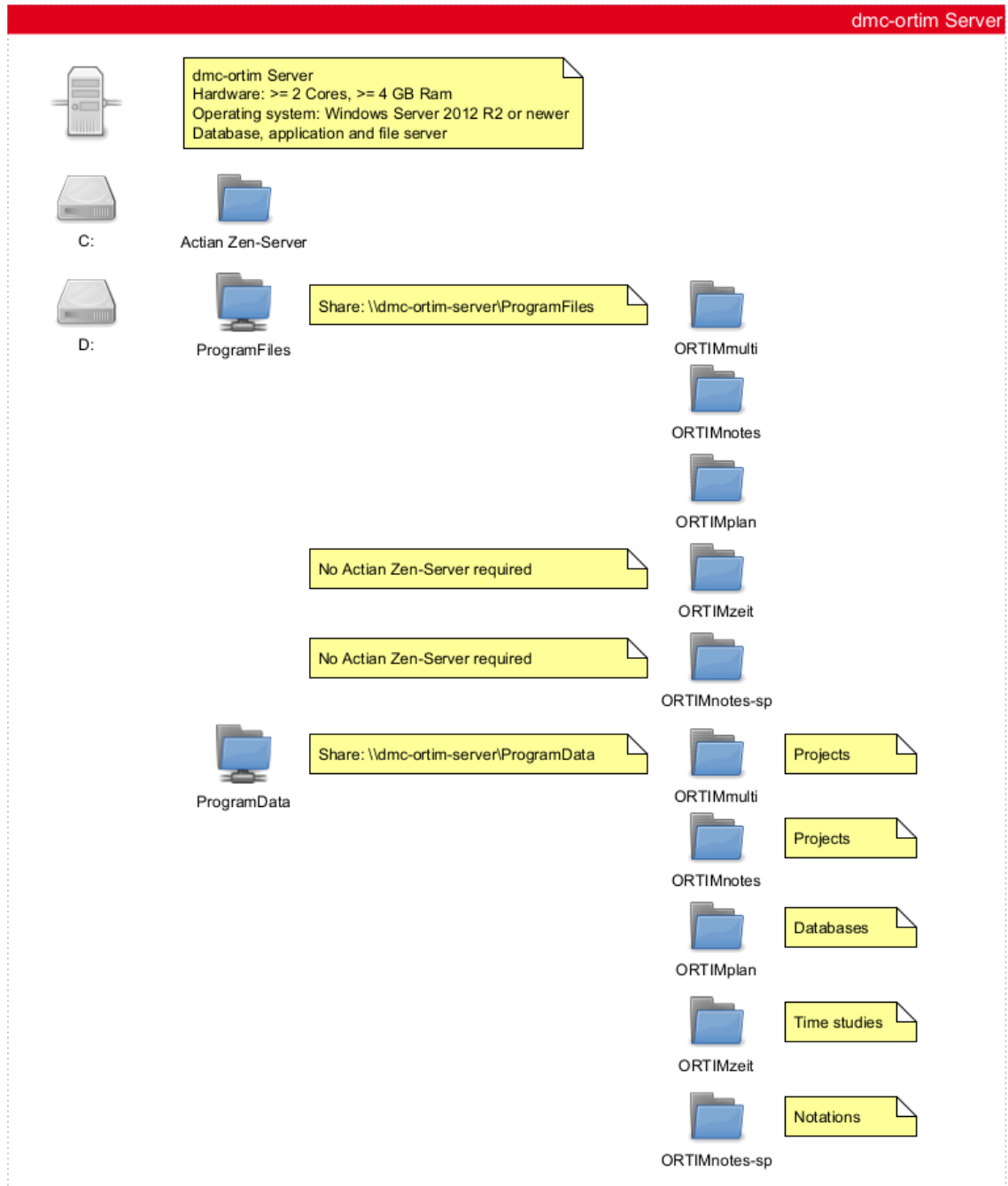
A terminal server can be configured as a separate server or activated on the dmc-ortim server. We recommend using a terminal server if you are planning a central installation and wish to connect multiple sites. The terminal server should be dimensioned such that it provides sufficient CPU power and system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

2.3 dmc-ortim workstation PC

The requirements for the workstation PC are minimal. Any standard commercial PC meets the requirements for using the dmc-ortim programs. The workstation PC can access the dmc-ortim server directly if the PC and server are located on a fast network (at least 1 Gbit).

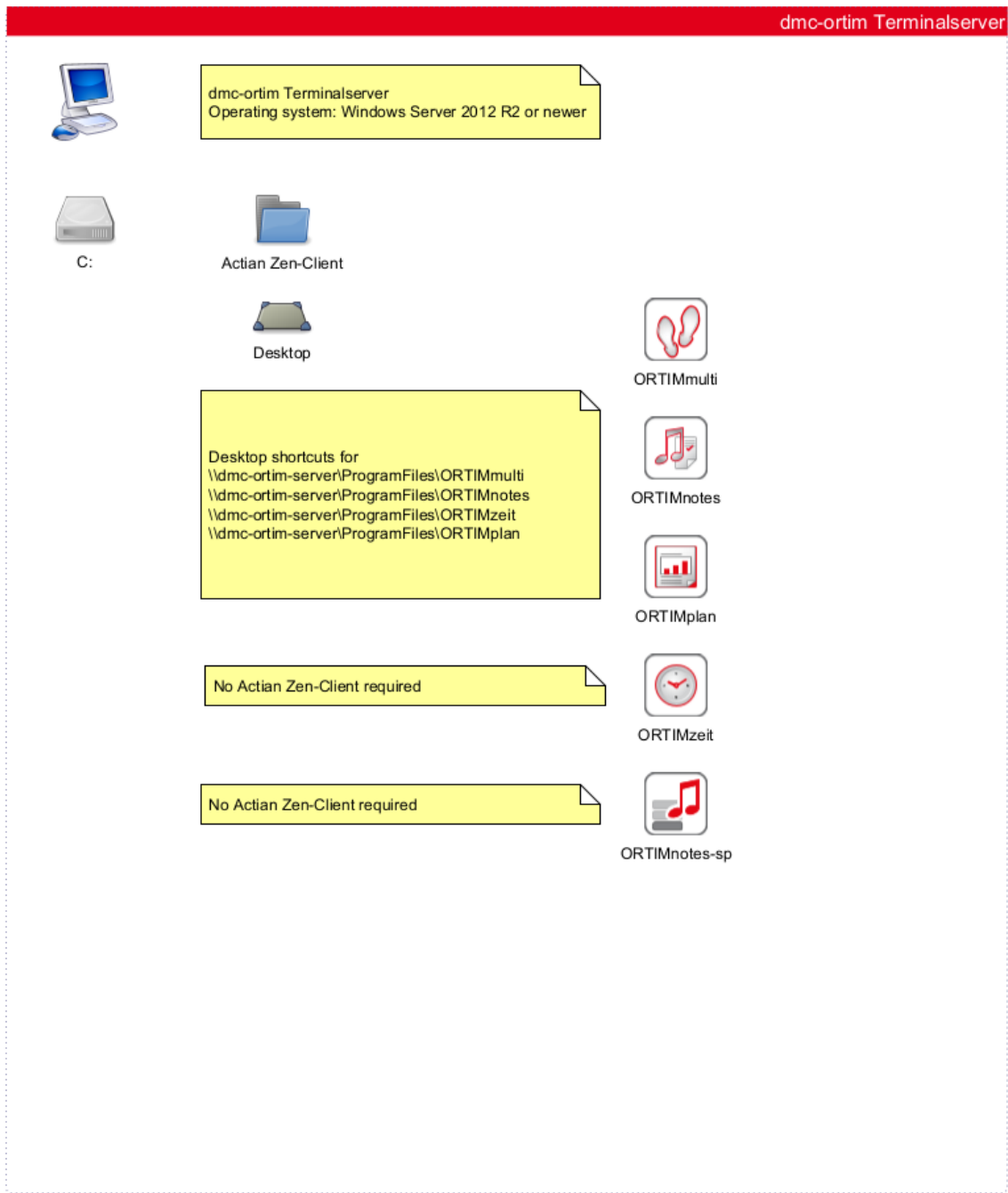
If the workstation PC accesses the dmc-ortim server via a slow connection, you should set up a terminal server and configure the workstation PC for this. Only the terminal sessions will then be started on the workstation PC; the program runs on the terminal server.

2.4 Architecture of the dmc-ortim server

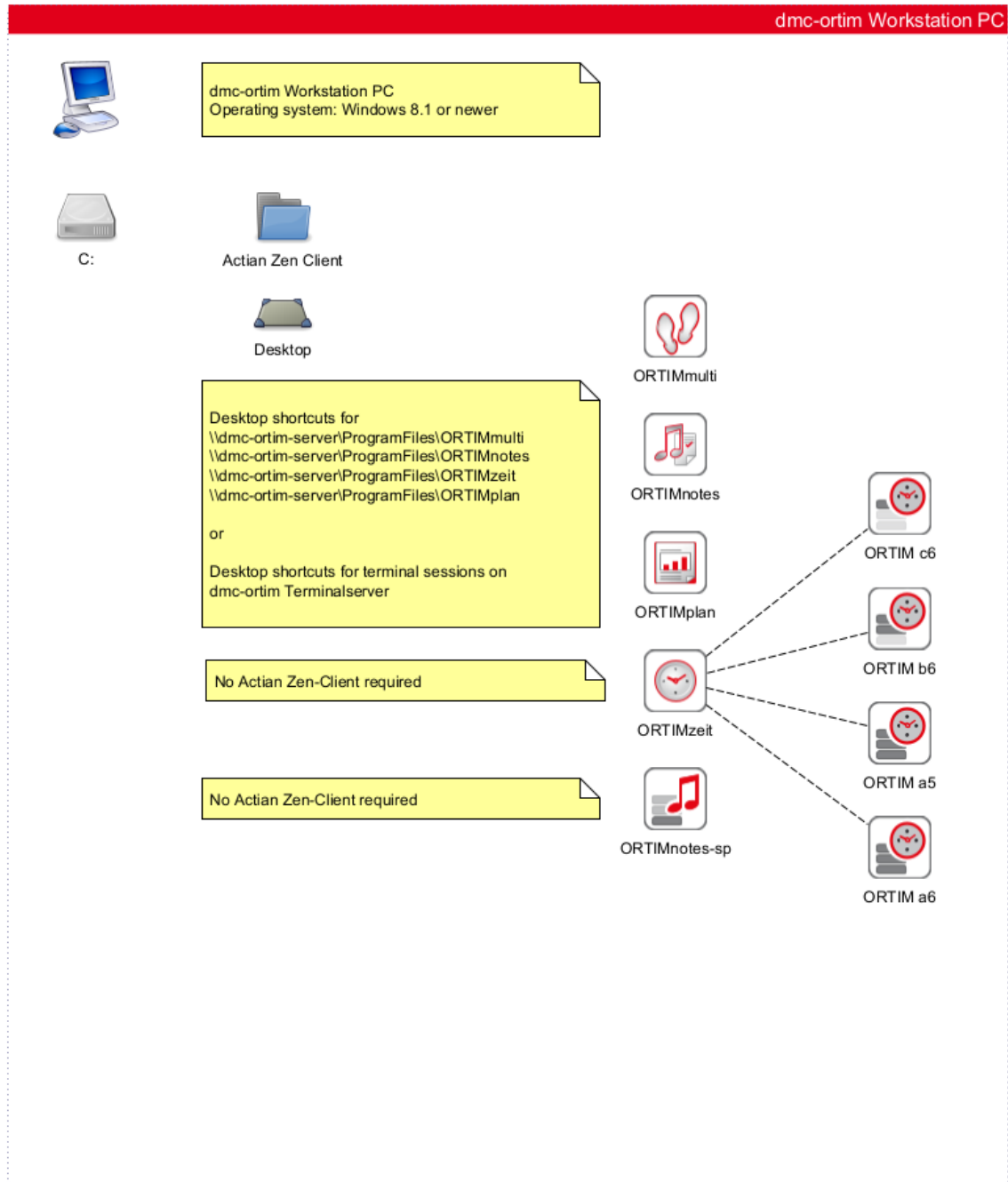


In case you do not want to use the time study directory created during the installation of ORTIMzeit: Please create the folder for the study directory on the same computer on which you have installed ORTIMzeit. For server-client installations, this is the server, ideally within the „Program Data“-Directory.

2.5 Architecture of the dmc-ortim terminal server



2.6 Architecture of the dmc-ortim workstation PC



3.1 Preparing the installation

During the installation of ORTIMzeit several directories are created.



Installing ORTIMzeit on Windows 10, Windows 11, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019, or Windows Server 2022 requires administrator privileges. Therefore, log on as an administrator or have an administrator perform the installation.



We strongly recommend using separate directories for programs and data. If you plan to install on a network server, you should create two folders/areas, "ProgramFiles" and "ProgramData." Only read permissions are required for the "ProgramFiles" area.

Program directory

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



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. Windows write access is required for this directory. The setup program attempts to set these rights.

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

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

Setting up directories on a network server

If you install ORTIMzeit on a network server, the following directory structure is recommended.

Program Directory

On a network drive on your server, create a directory called **ProgramFiles** named **\\Servername** for program installation. Create a **ProgramFiles** share for this directory. Create the **ORTIM** and **ORTIMzeit** directories under **ProgramFiles**. Then, specify **\\ServerName\ProgramFiles\ORTIM\ORTIMzeit** as the program directory.



For the license file to act as program protection, you must specify the release for the program directory, even if you install it directly on the server.

Data Directory

On a network drive on your server, create a directory named **ProgramData** named **\\Servername** for storing program data. Assign write permissions to this directory. Create a **ProgramData** share for this directory. This share must also have write permissions. Create the directories **ORTIM** and **ORTIMzeit** below **ProgramData**. Then, specify **\\ServerName\ProgramData\ORTIM\ORTIMzeit** as the program directory.



We strongly recommend specifying a UNC path name here.

3.2 Compatibility with older versions

While older versions of ORTIMzeit and ORTIM a6 Windows use the Actian Zen database, this is no longer required for ORTIMzeit 8.0 and ORTIM a6 Windows 3.0.

Due to changes in the data exchange format, certain compatibility restrictions have occurred.

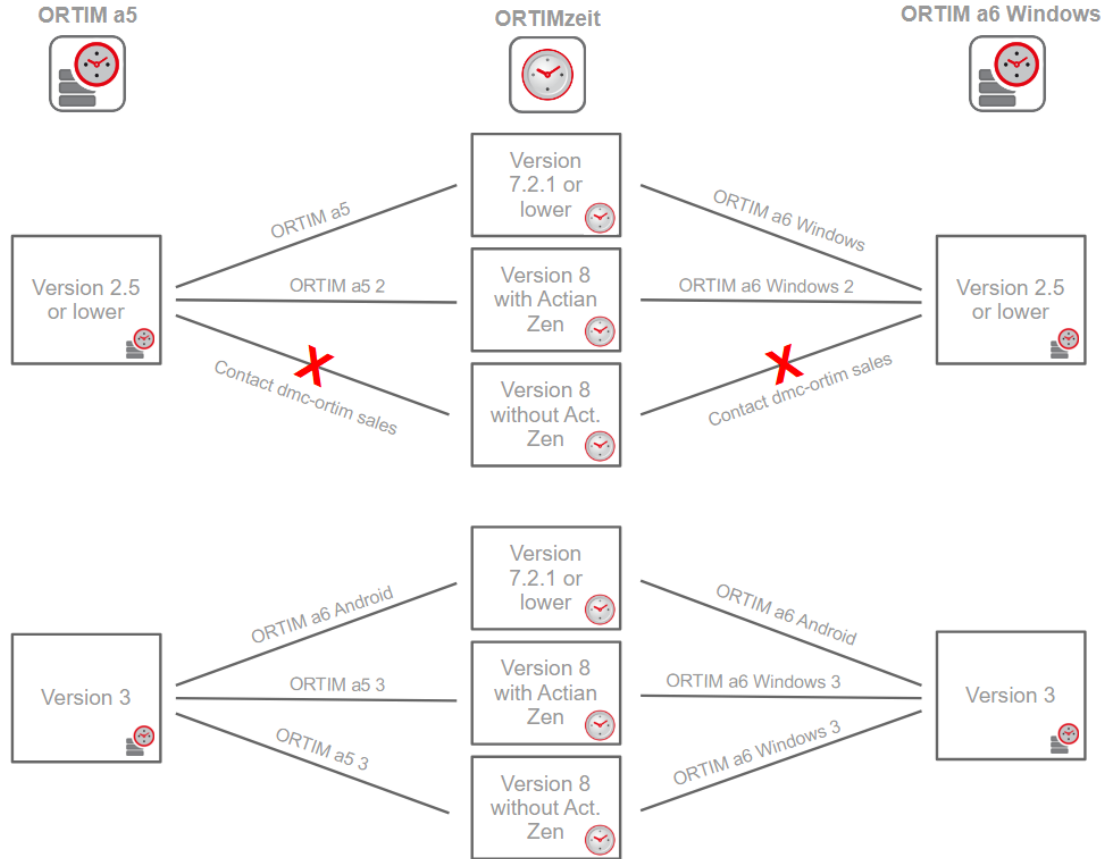
Before installation, check whether any studies from ORTIM a6 Windows or ORTIM a5 need to be transferred to ORTIMzeit, otherwise it may no longer be possible in the new configuration.

The following diagram contains all possible scenarios and also describes which interface to choose.

compatibility data exchange

Selectable data transfer in ORTIMzeit

Prior to version 2.4, ORTIM a6 Windows was called ORTIM a5PC.



3.3 Program protection

ORTIMzeit is equipped with program protection. The Softlock method is a pure software protection method. This software protection method is also referred to below as the license file.

General

The license file consists of an encrypted file containing the license information.

You will receive this license file with the software delivery.

You will receive an ozlock.otmx file from dmc-ortim. This file must be located in the ORTIMzeit data directory to take effect. The file location can be specified during the installation process to automatically copy the file.

Installing the license file

The ozlock.otmx license file provided by dmc-ortim must be located in the data directory of the ORTIMzeit installation. If you didn't use the corresponding functionality during installation, copy the license file there using your file explorer.



Note: The data directory is the directory that contains, among other things, the user database ozuser.otmx.

Activate license

Before using ORTIMzeit for the first time, the license must be activated.



Note: The license file is activated for the PC on which ORTIMzeit is installed. If you install ORTIMzeit on a network server, activation is performed for the network server.

Automatic activation

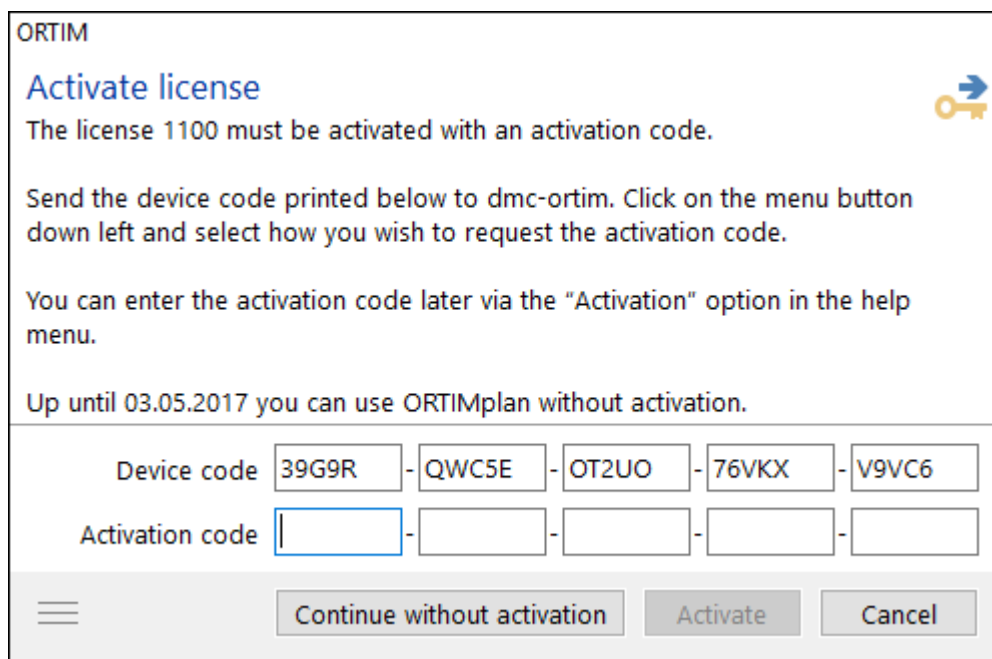
The first time the program is launched, an automatic activation process is initiated. This automatic activation occurs over the internet. This involves contacting the dmc-ortim activation server.

The program version, serial number, and a device code are transferred to the activation server. No other data (personal or PC-related data) is transferred. The activation server provides the activation code and activates your license for use.

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

Manual activation

After user login, ORTIMzeit opens a window from which you can read your device code.



ORTIM

Activate license

The license 1100 must be activated with an activation code.

Send the device code printed below to dmc-ortim. Click on the menu button down left and select how you wish to request the activation code.

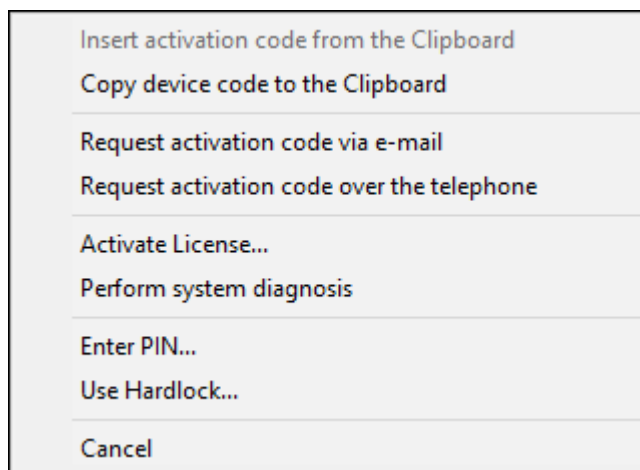
You can enter the activation code later via the "Activation" option in the help menu.

Up until 03.05.2017 you can use ORTIMplan without activation.

Device code	39G9R	-	QWC5E	-	OT2UO	-	76VKX	-	V9VC6
Activation code		-		-		-		-	



You must send this device code to dmc-ortim and then receive your activation code. To do so, use the menu button in the bottom left.



- Insert activation code from the Clipboard
- Copy device code to the Clipboard
- Request activation code via e-mail
- Request activation code over the telephone
- Activate License...
- Perform system diagnosis
- Enter PIN...
- Use Hardlock...
- Cancel

You have the option of requesting the activation code via email or telephone.



Note: If possible, please use the request via email.

Deactivate license

The license is tied to your PC or server.

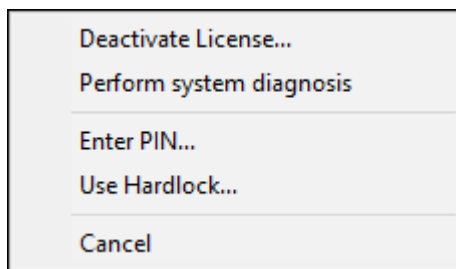
If the license is deactivated, you can automatically activate the license on the new PC or server. If you do not deactivate the license, automatic activation on a new system will not be possible.



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

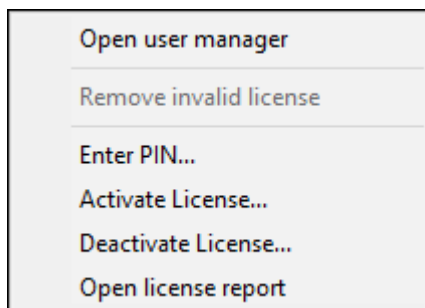
Deactivate license via help menu

- Open the Help menu and select *License...*
- The following window will indicate that your license is activated.
- Select ... at the bottom left and then select *Deactivate License...*



Deactivate license via system administration

- Open the System Administration and go to the *License* section.
- This indicates that your license is activated.
- Open the local menu (context menu) and select the entry *Deactivate license*.



3.4 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.

3.5 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 shutdown properly on a particular workstation).

Licensee	[REDACTED]				
Serial number	1100				
Device code	39G9R-QWC5E-OT2UO-76VKX-V9VC6				
Activation code	FB8AB-4UA7J-KVBGH-Y3ANN-IFKRZ				
Valid	248 Day(s), 28.04.2017 to 31.12.2017				
	Still 247 days valid				
Number of licences	4				
Serial number	Logged in	Status	Login time	PC name	PC user
110000	admintl	logged in on this PC	28.04.2017 09:44	TL	[REDACTED]
110001					
110001					
110099					

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 ORTIMzeit with command line option /m.

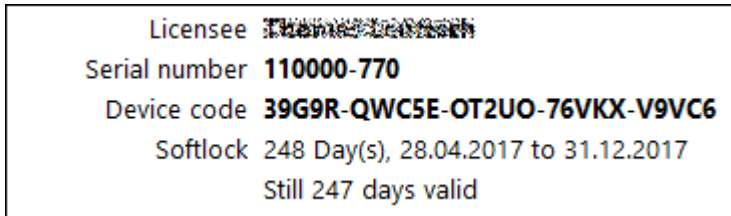
If the program is launched with option /m, no other functions of ORTIMzeit will be available. After closing the license monitor, the program will be shut down automatically without requesting confirmation.

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

3.6 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 ORTIMzeit.



ORTIMzeit 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.

3.7 Full Installation

The installation program is available in the dmc-ortim download center.

Start the full installation

After start the Setup Wizard will guide you through the necessary installation steps.



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

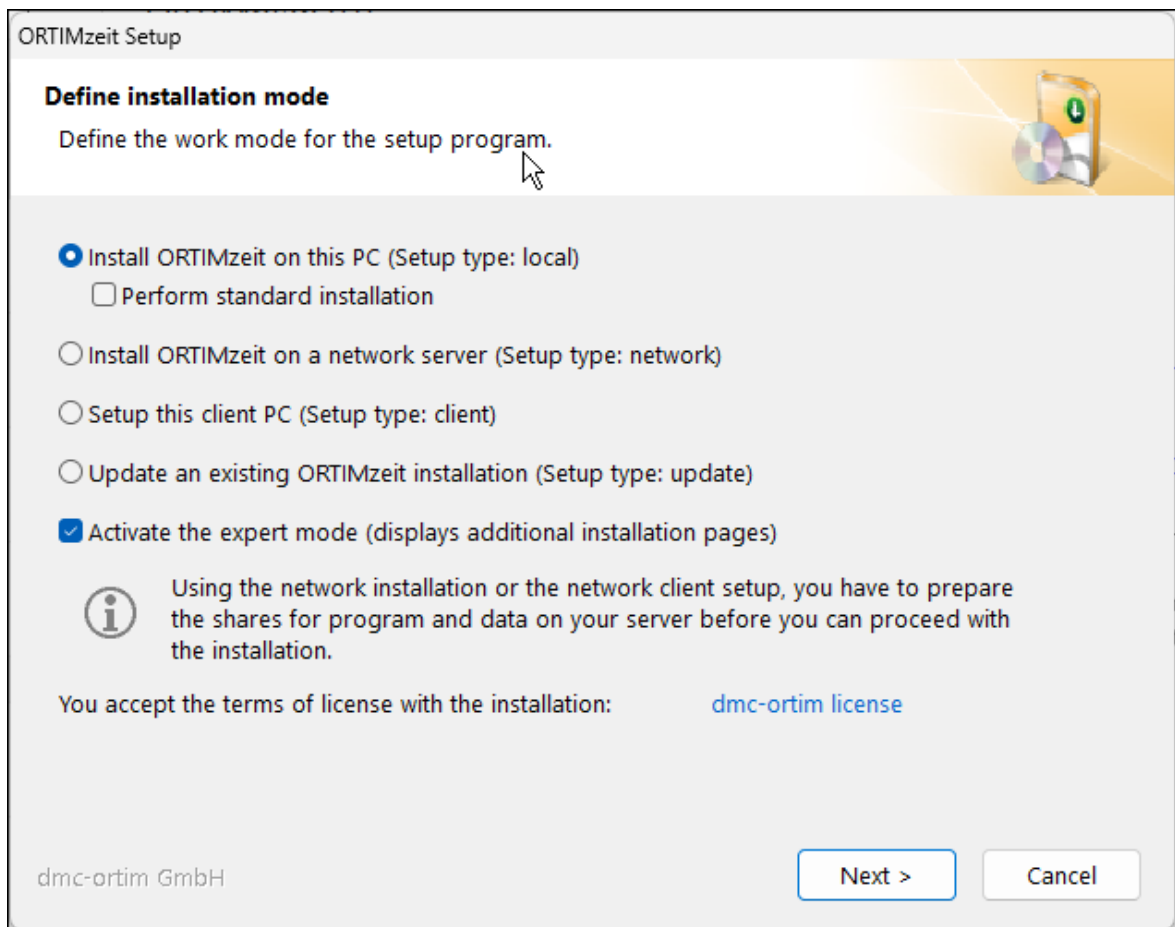
Choose installation mode

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.

On this page you must select the installation type.



Install ORTIMzeit on this computer

Installation type: local.

Choose this install mode if you want to install ORTIMzeit on the computer, you are currently logged on to.

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 ORTIMzeit on a network server

Installation type: network.

Choose this install mode, if you want to install ORTIMzeit on a network server. The setup can be performed either on the network server itself (recommended) or on a client computer. If

you want to run ORTIMzeit on the network server (e.g. as service to perform central tasks), you must run the installation on the network server.

A prerequisite for network installation is that directories and shares for programs and data are set up on the network server.

Example:

Set up on a hard disk F of the server with the computer name ORTIM.

Create the directories

```
F:\ProgramFiles\ORTIMzeit  
F:\ProgramData\ORTIMzeit
```

Create the network shares

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

During the installation enter the program directory

```
\\ORTIM\ProgramFiles\ORTIMzeit
```

and the data directory

```
\\ORTIM\ProgramData\ORTIMzeit
```



We strongly recommend using UNC pathnames rather than drive letters. Years of experience with drive letters have repeatedly revealed problems with drive letter availability.

Setup client computer

Choose this install mode, if ORTIMzeit ist already installed on a network server and you want to setup a client computer

Upgrade existing ORTIMzeit installation

Choose this install mode, if ORTIMzeit ist already installed on this computer and you want to upgrade this computer.

Expert mode

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



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

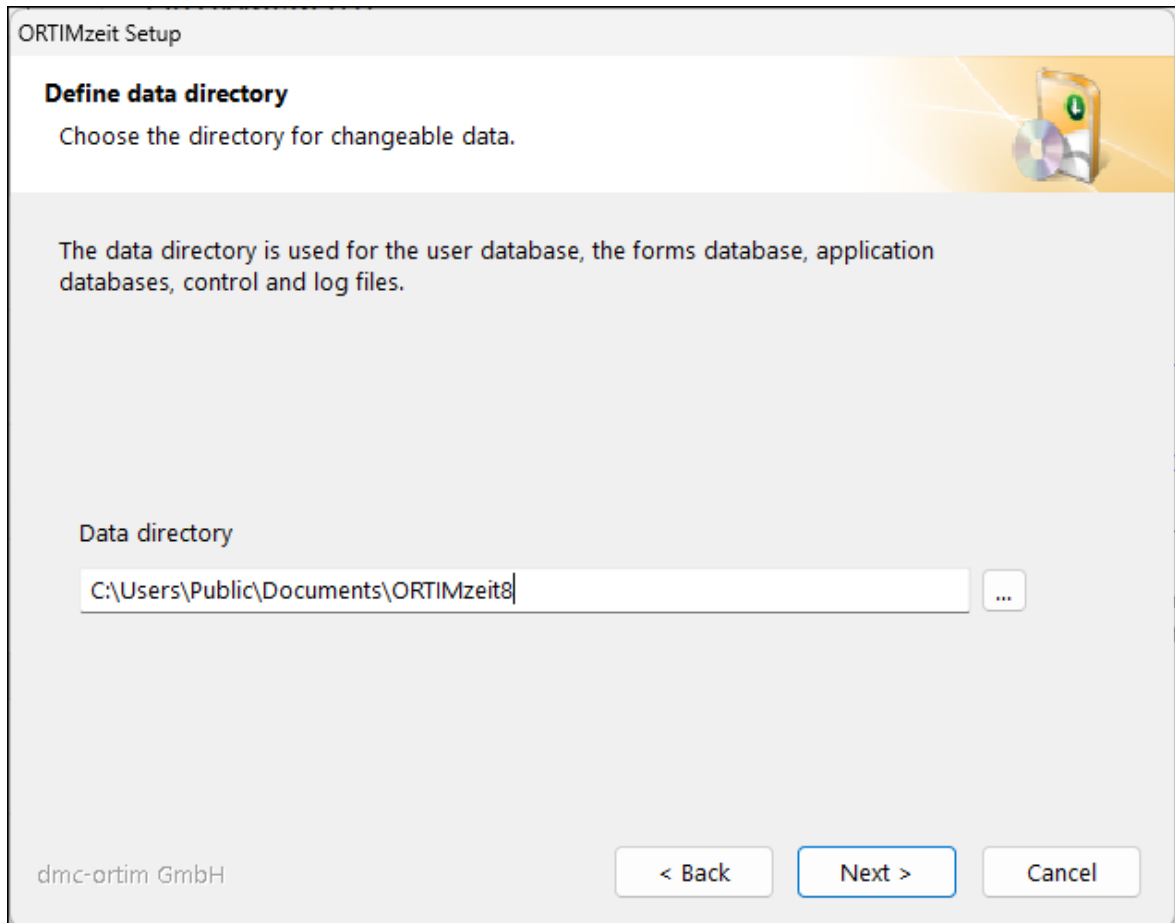
In the next step, you will be requested to specify a directory into which ORTIMzeit is to be installed.

The screenshot shows the 'ORTIMzeit Setup' window. The title bar says 'ORTIMzeit Setup'. The main heading is 'Choose Install Location'. Below it, the text says 'Choose the folder in which to install ORTIMzeit.' There is a decorative graphic on the right showing a folder and a CD. Below this, a message states: 'Setup will install ORTIMzeit in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue.' Below the message is a text box labeled 'Program directory' containing the path 'C:\Program Files (x86)\ORTIM\ORTIMzeit8'. To the right of the text box is a 'Browse...' button. At the bottom left, it says 'dmc-ortim GmbH'. At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'.

By default, the directory „C:\Program Files (x86)\ORTIM\ORTIMzeit“ 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

In the next step, you need to specify the data directory. This directory will be used for all modifiable data.



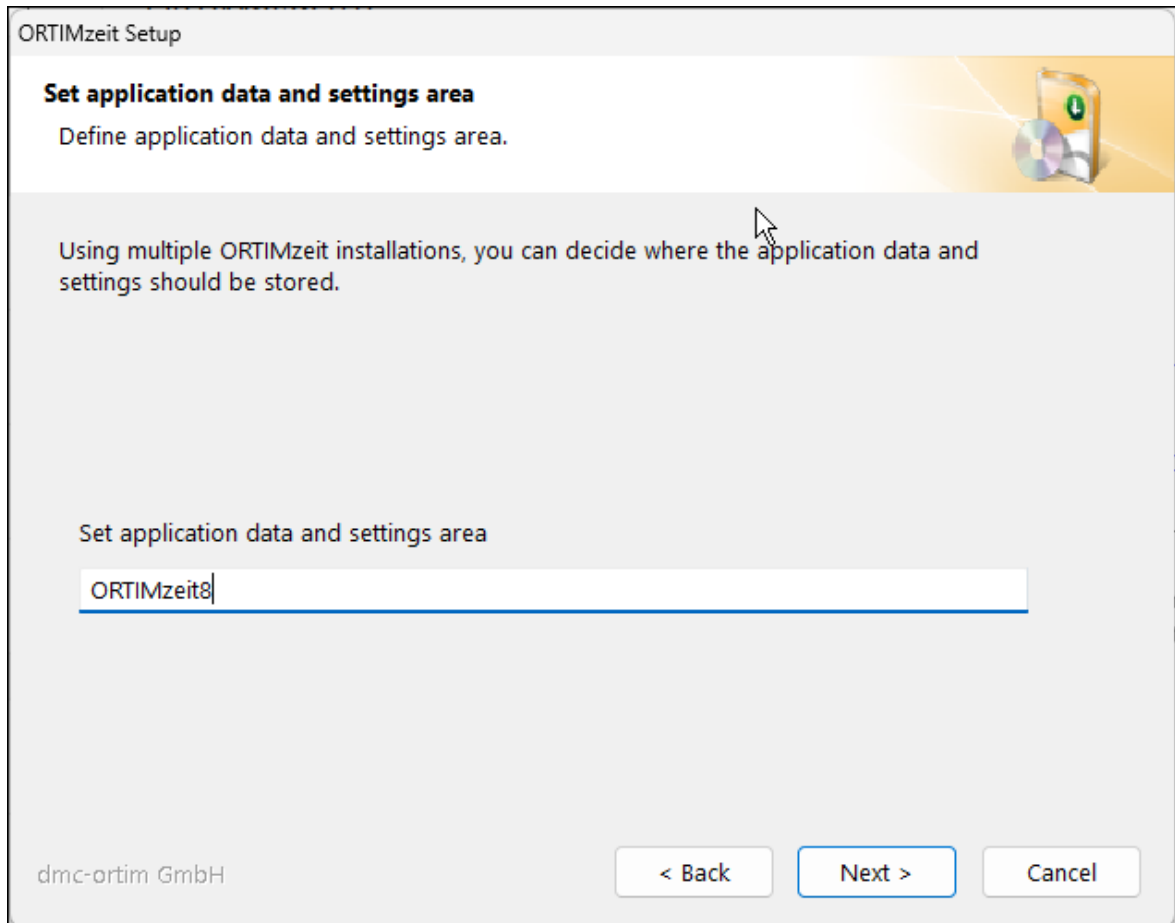
If you use the program in a network, choose a directory that is available to all users in the network and to which all the users have the necessary write permissions.



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.

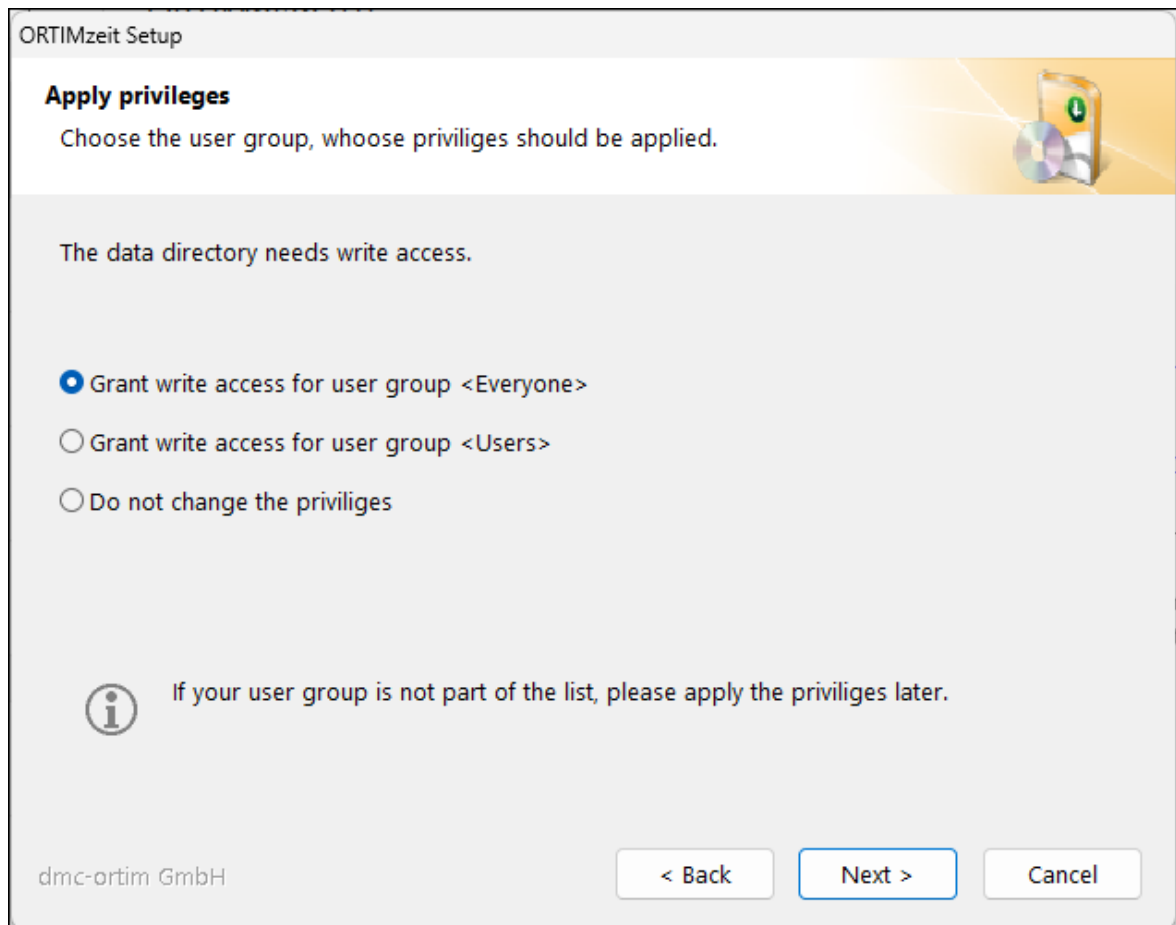
If you plan to configure a second ORTIMzeit installation on the same PC or server, you need to enter a unique key here.

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.

Apply privileges

This screen only appears in Expert mode.

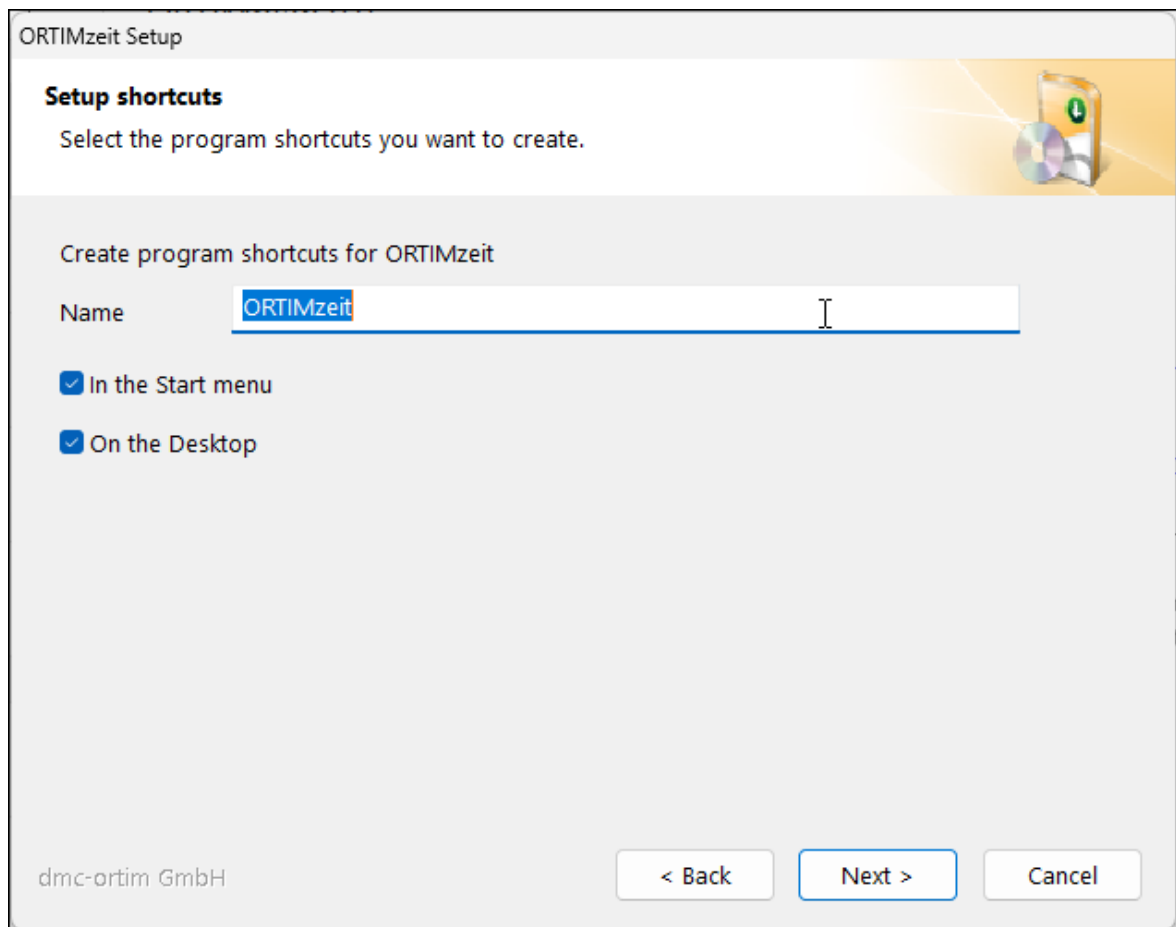


Select the PC privilege group you want to assign to the data directory.

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.

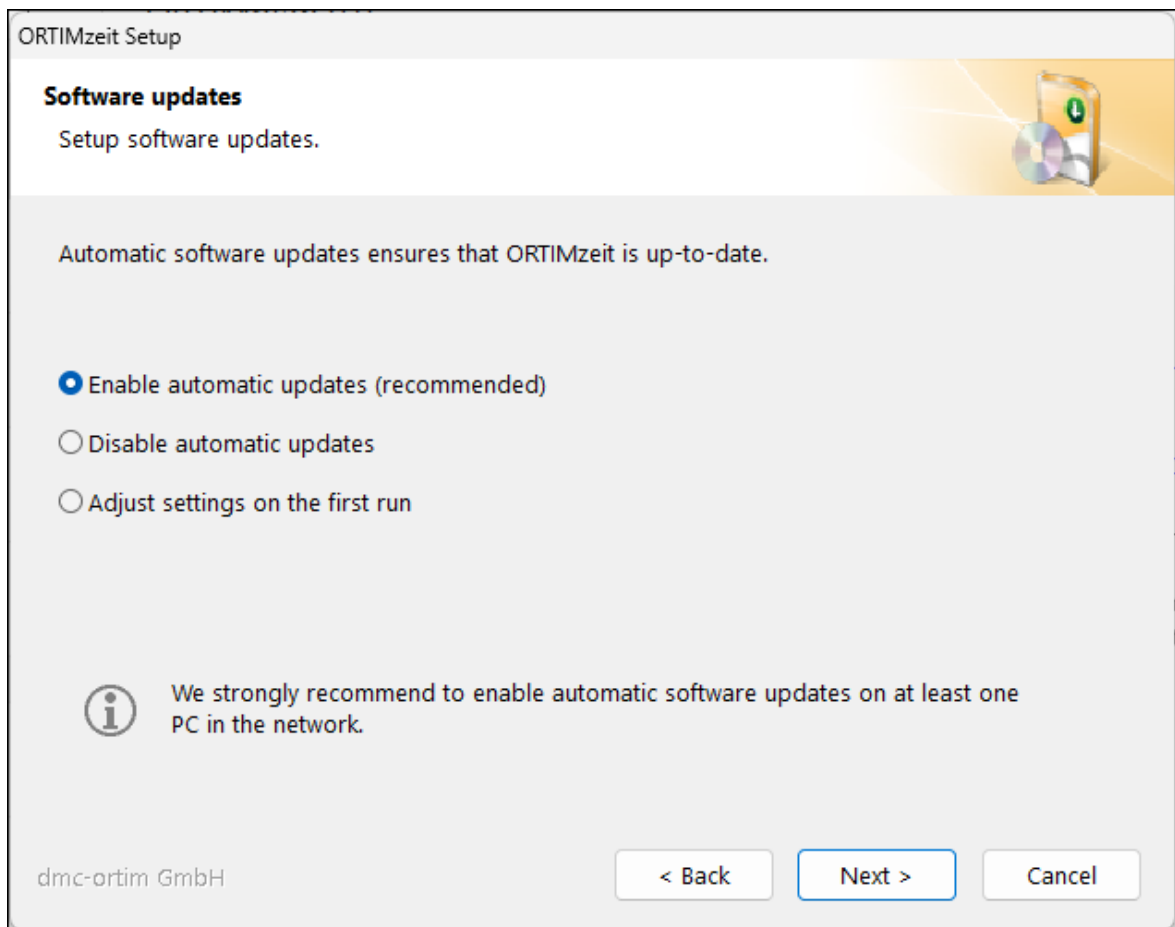


Software update

This window only appears in Expert mode.

ORTIMzeit 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.

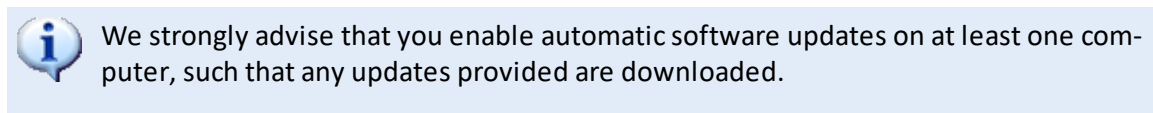
This screen allows you to define the settings for the Software Update functionality.



If you select the default “Adjust settings on the first run”, 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 ORTIMzeit to have access to the Internet, you should select option “Disable automatic updates”.

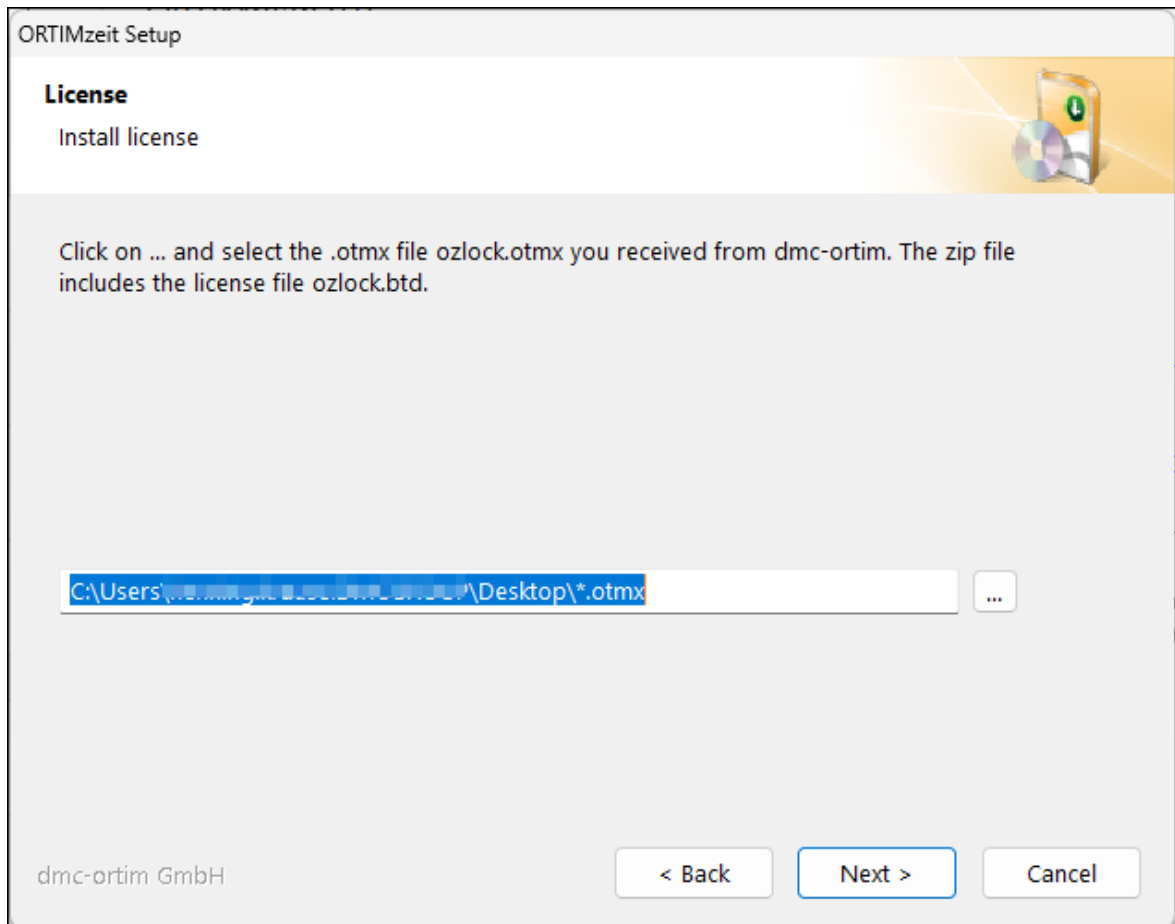
You can change these settings again later via the program



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).

Select license file

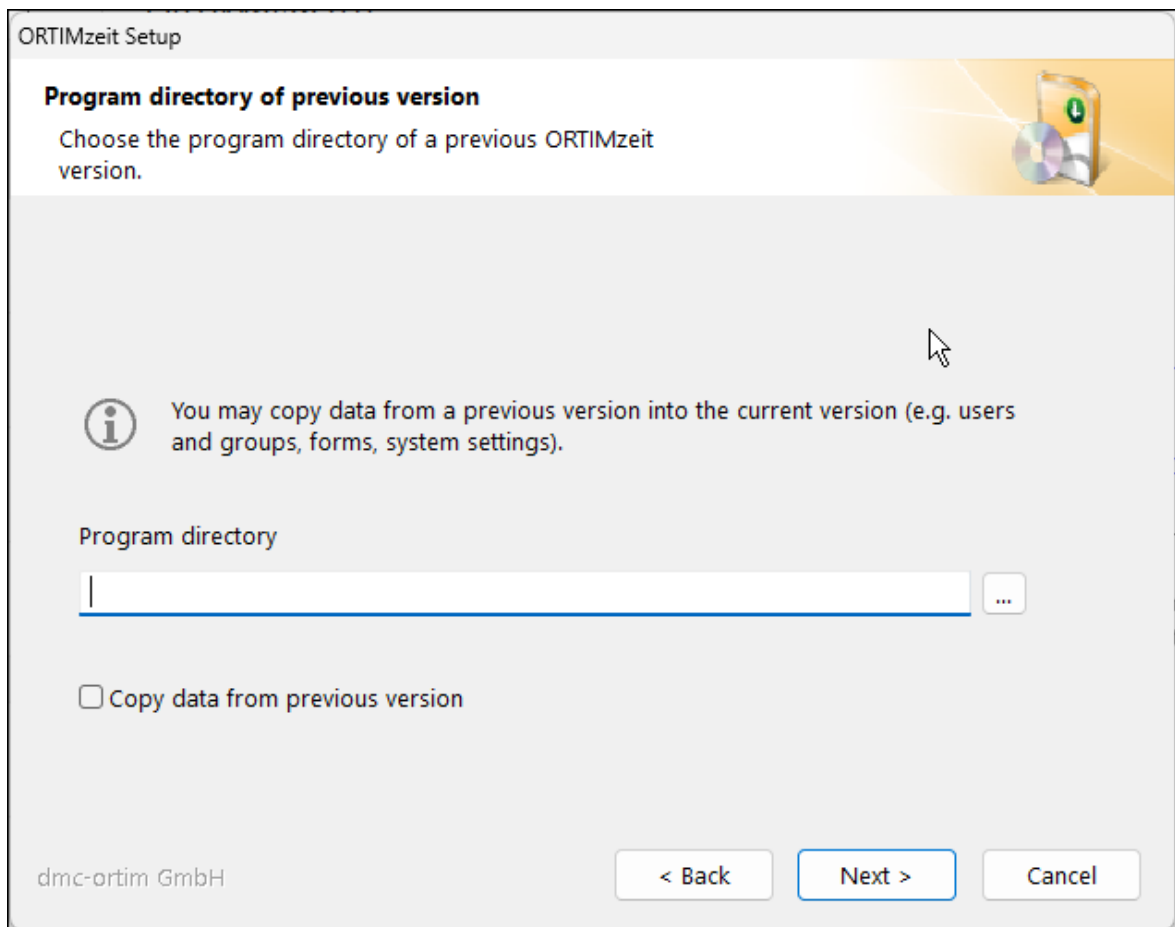
Select the folder containing the license file provided by dmc-ortim. This file will then be copied to the correct folder during installation, allowing the application to be activated online the first time you launch the program. If there is no internet connection, a dialog box for manual activation will appear. You can obtain the activation code by phone or email by providing the device code and copying it there.



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 the current version.



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



A backup of the overwritten files is created with extension *.bak.

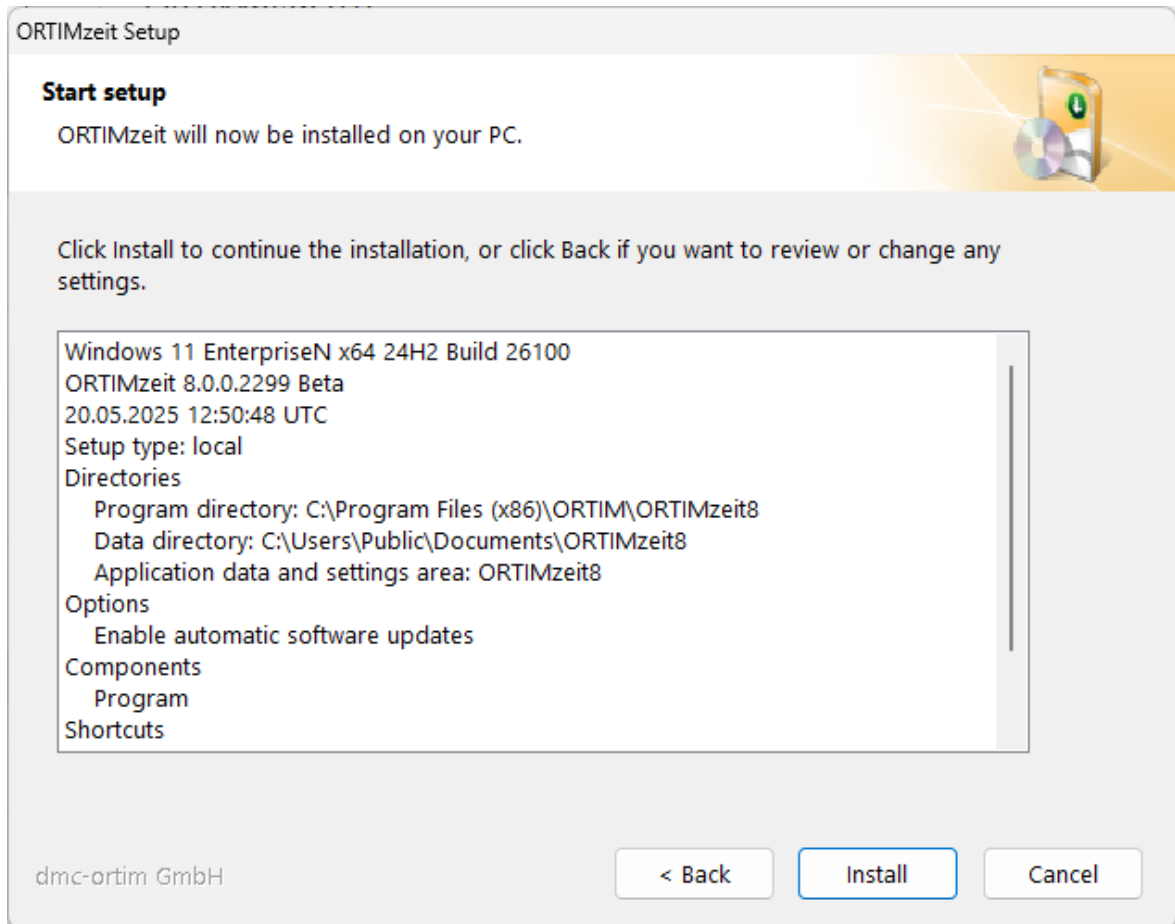
The following files are copied:

1. User database
2. Forms database
3. Task database
4. Analysis systems
5. Time category modules
6. Text modules
7. Standard file

Start setup

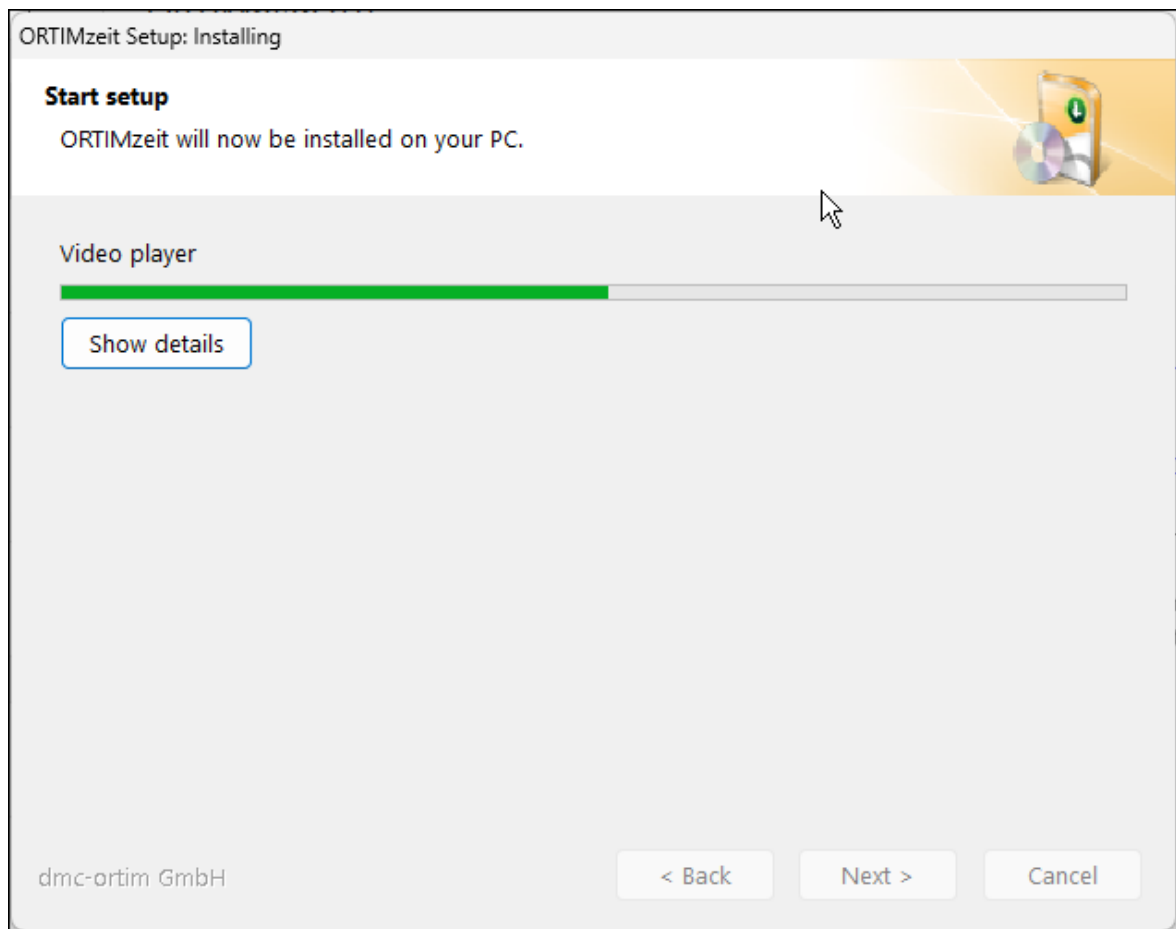
The overview page prints the installation steps you can expect to see.

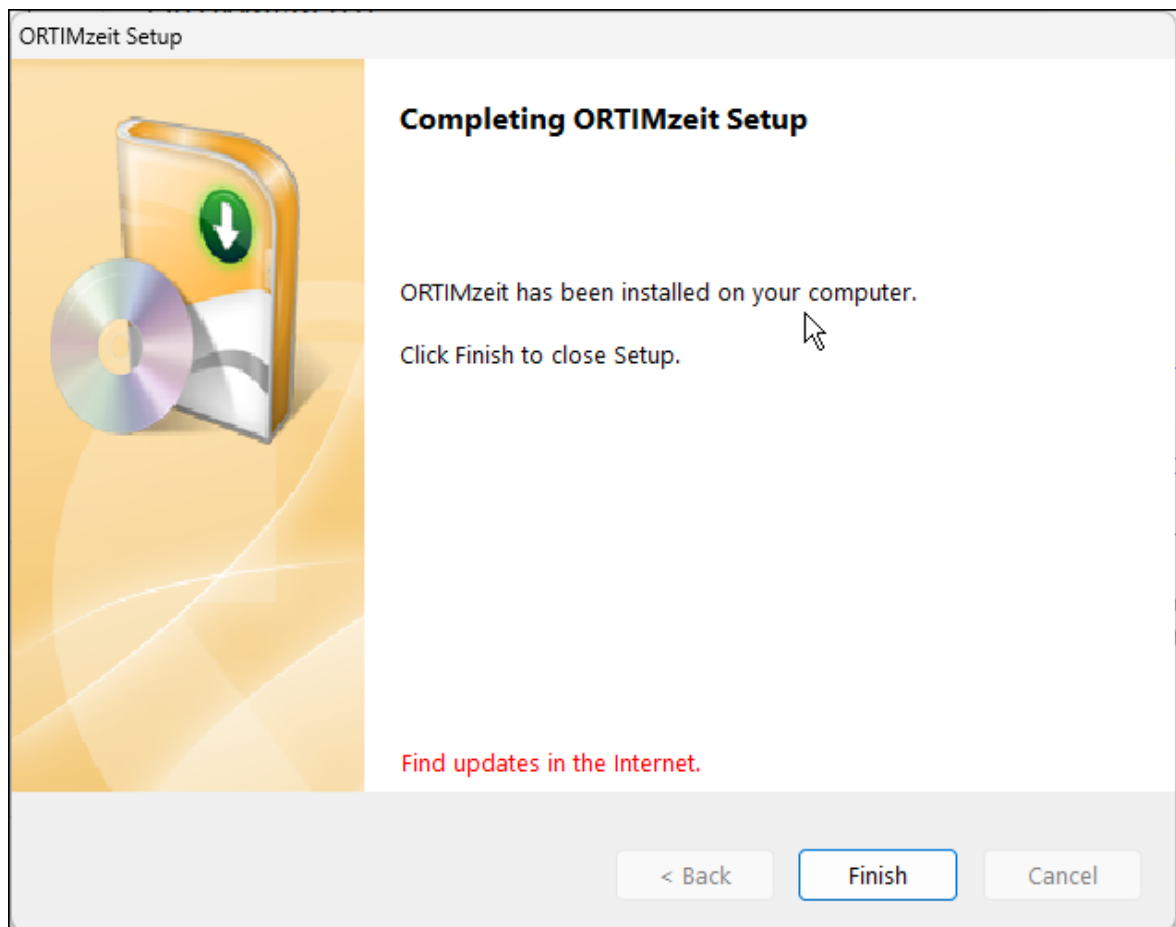
You now launch the setup procedure by clicking on the “Install” button. All the necessary files are copied into the previously defined directories.



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.

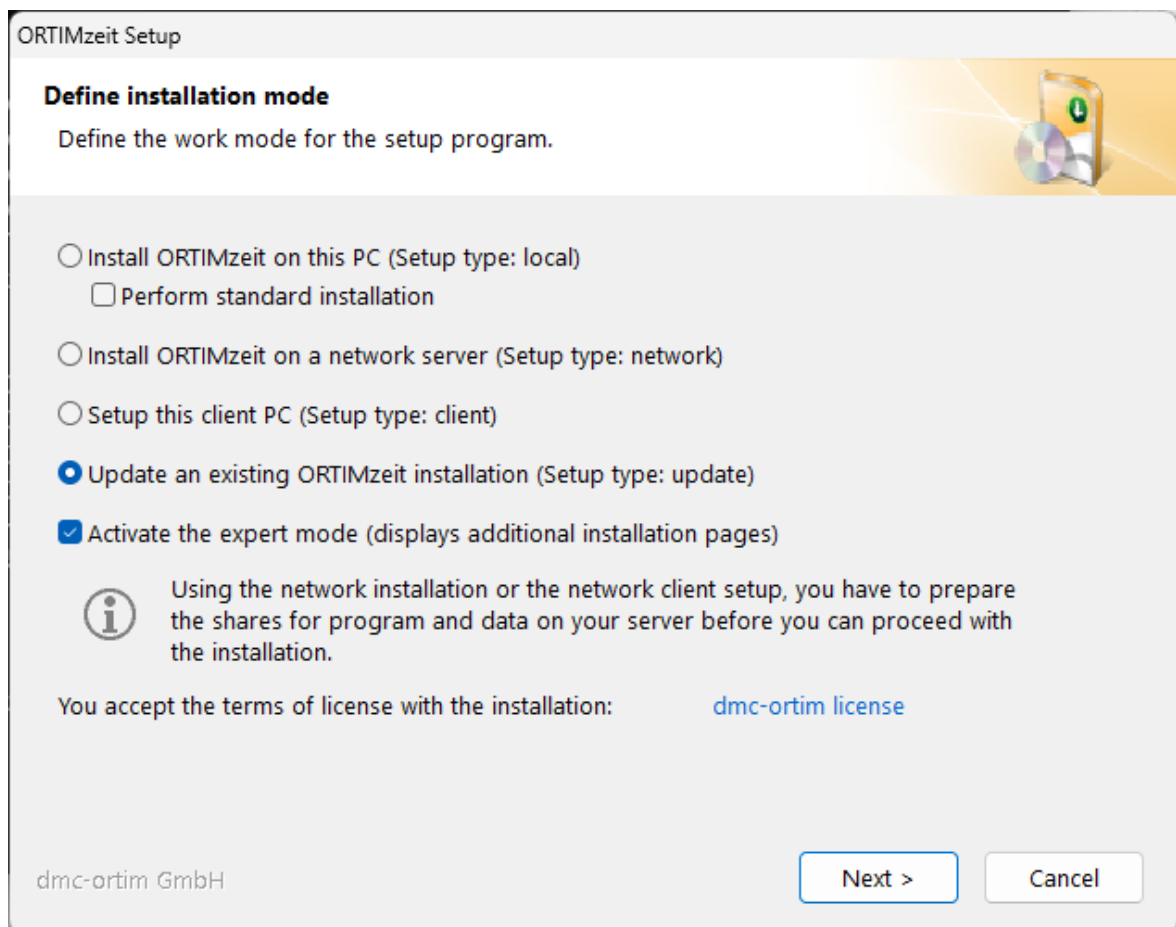




3.8 Update installation

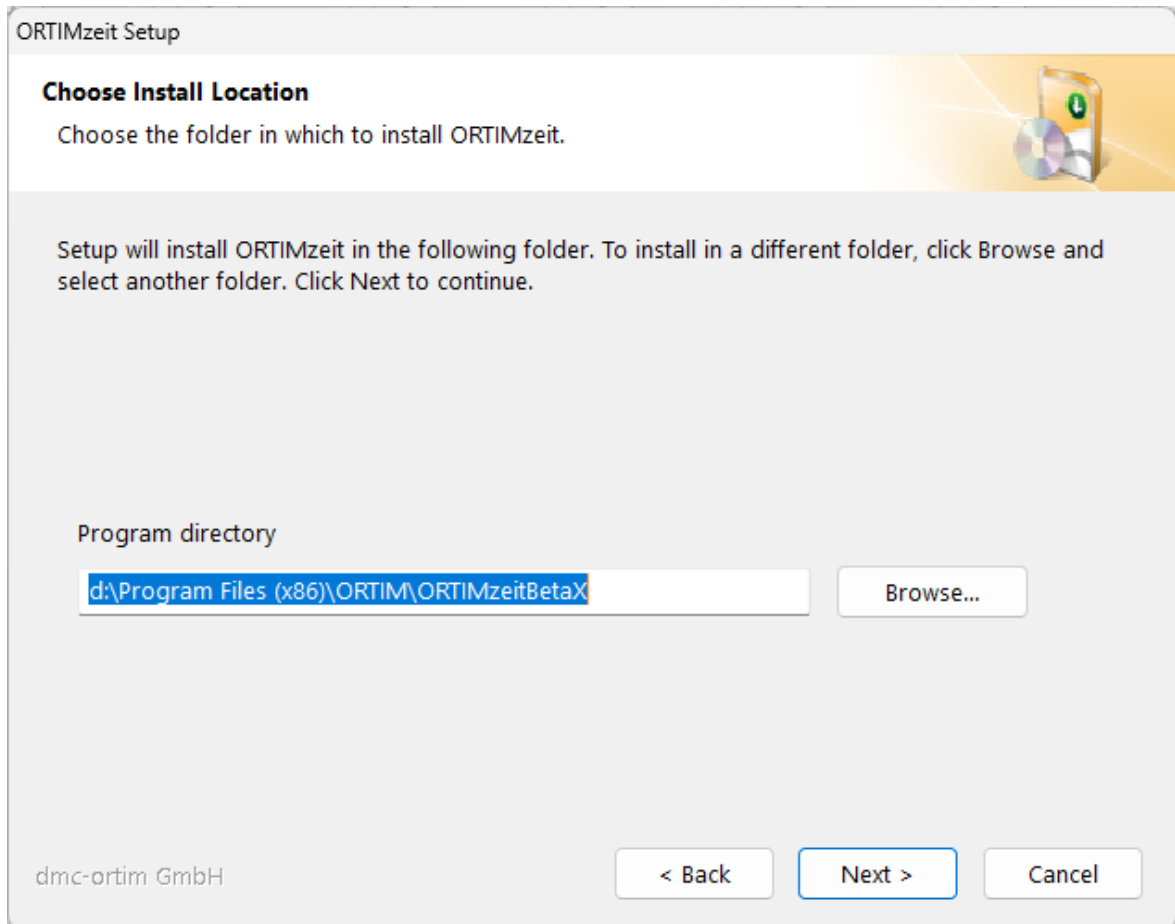
The update is installed using the same installation program. Select the installation type *Update existing ORTIMzeit installation*.

Install update



Choose install location

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



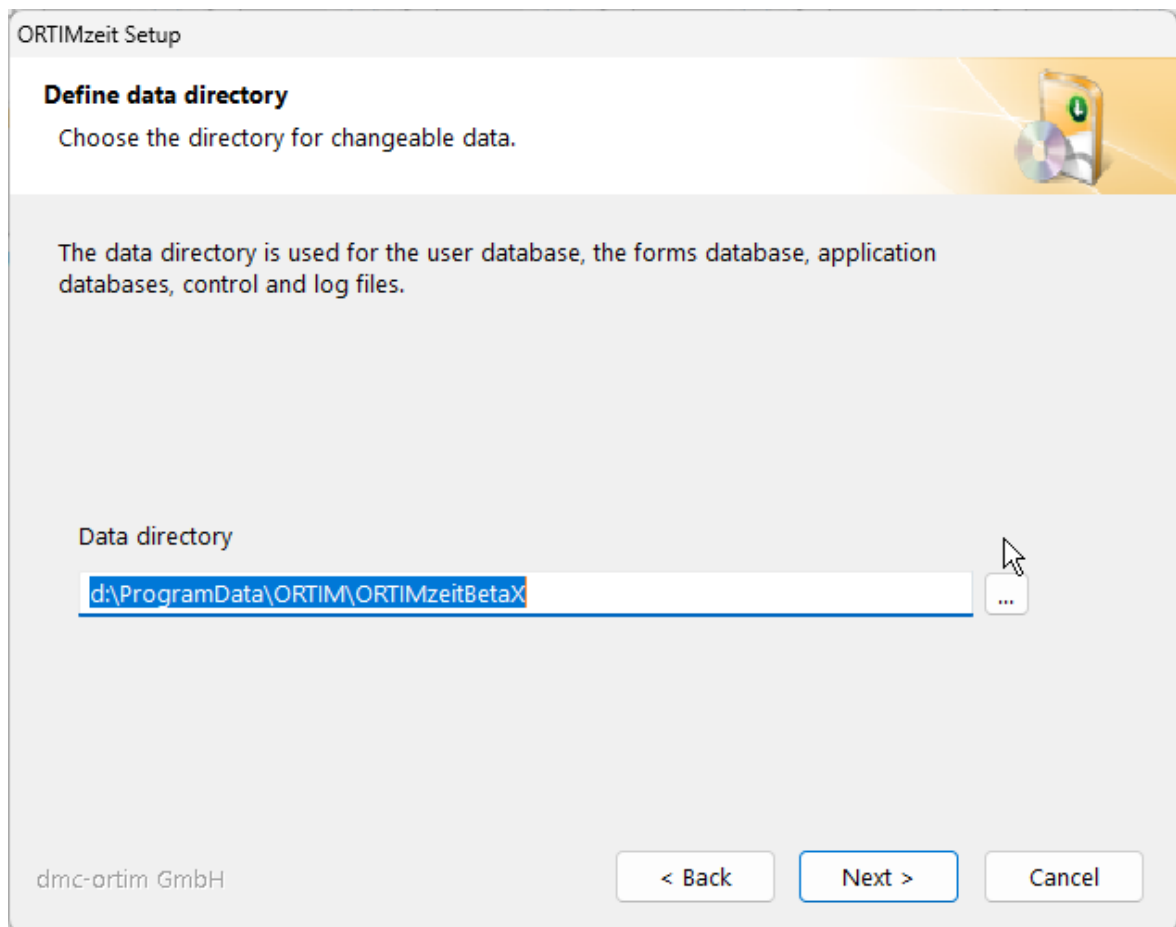
Select the program directory of ORTIMzeit. The program directory is the directory containing the ORTIMzeit installation you want to update with the update.

If you have not yet installed ORTIMzeit on your system or if you have specified the wrong program directory, the “Next” button will not be available. In this case, choose a different directory or perform a full installation of ORTIMzeit.

Click on “Next” to proceed with the update.

Check the data directory

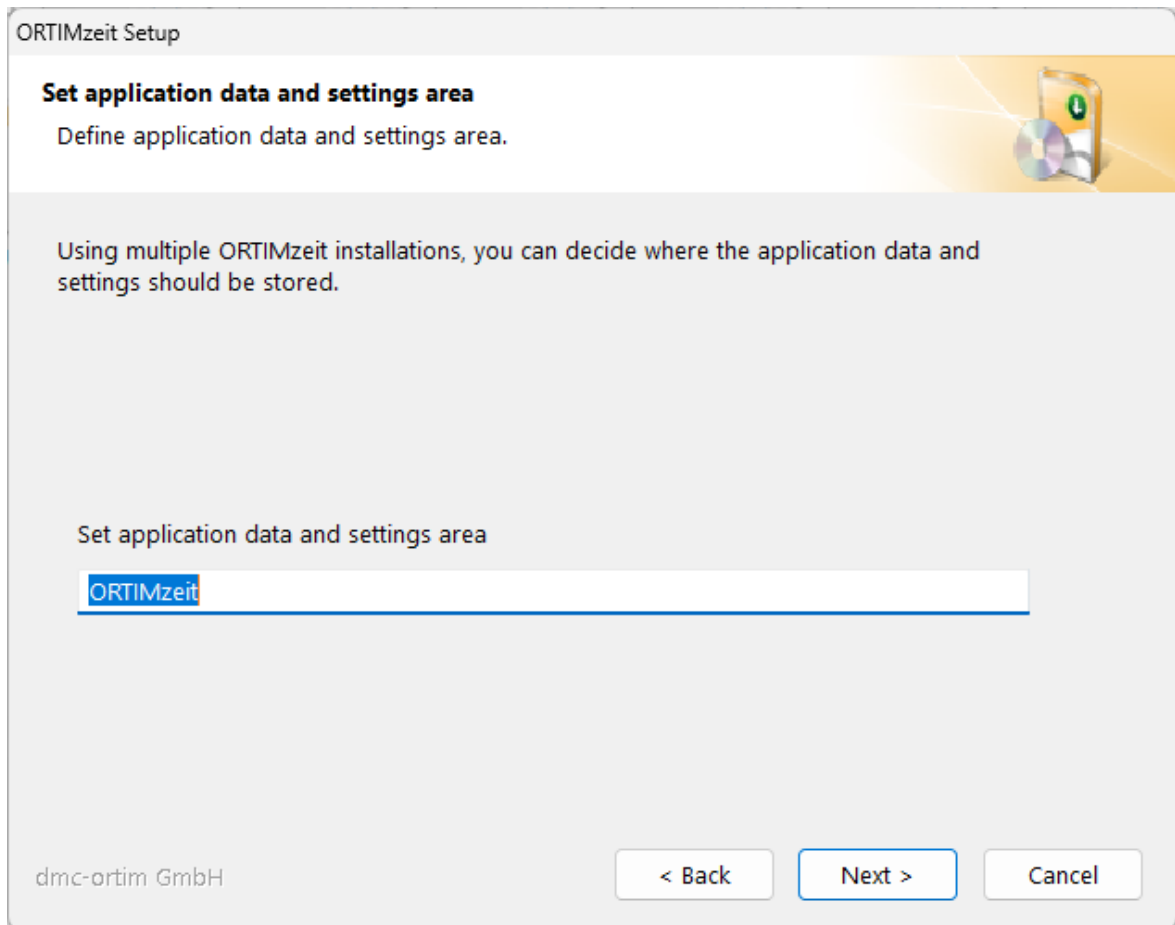
In the next step you can check the set data directory.



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

Choose application and settings area

This screen only appears in Expert mode.



Here you can enter the application data and settings area where ORTIMzeit will save the application data and workstation settings.

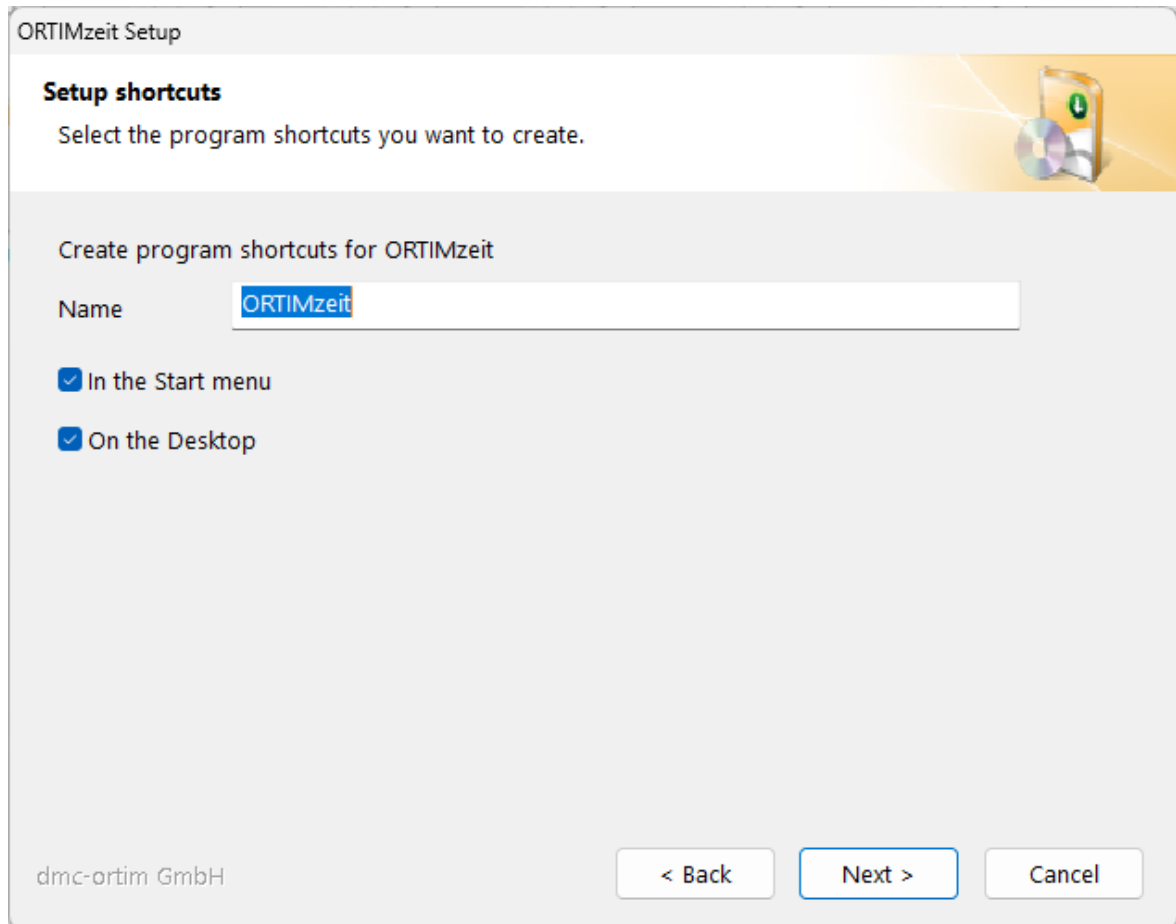
If you want to set up a second ORTIMzeit installation on the same PC or server, you must enter a unique application data and settings area here.

The application data will be created in the specified application data area under the path provided by the %APPDATA% system variable.

The workstation settings will be saved under the specified settings area in the path *HKCU\Software\ORTIM Industrial Engineering Deutschland GmbH* in the Windows registry database.

Setup shortcuts

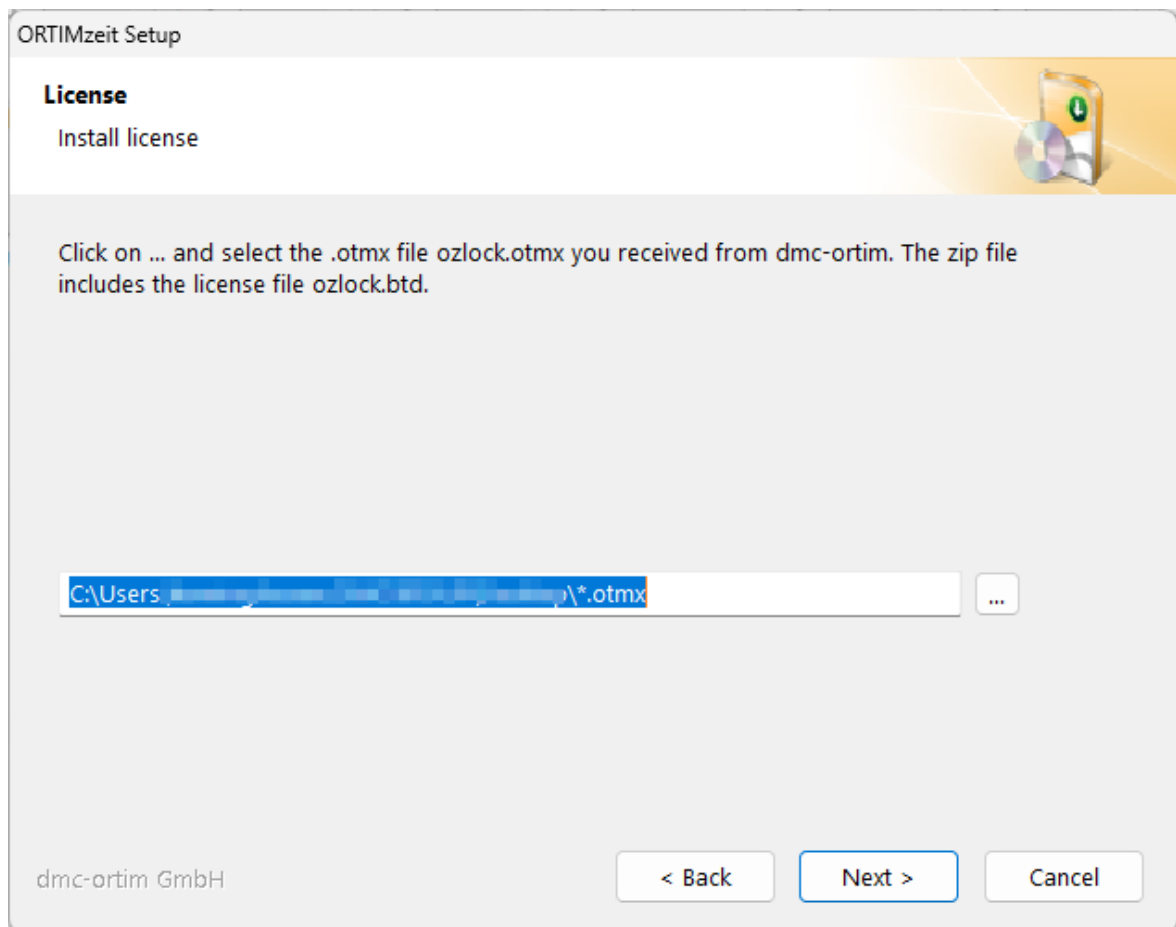
If you have selected expert mode, you can create shortcuts in the start menu and on the desktop.



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

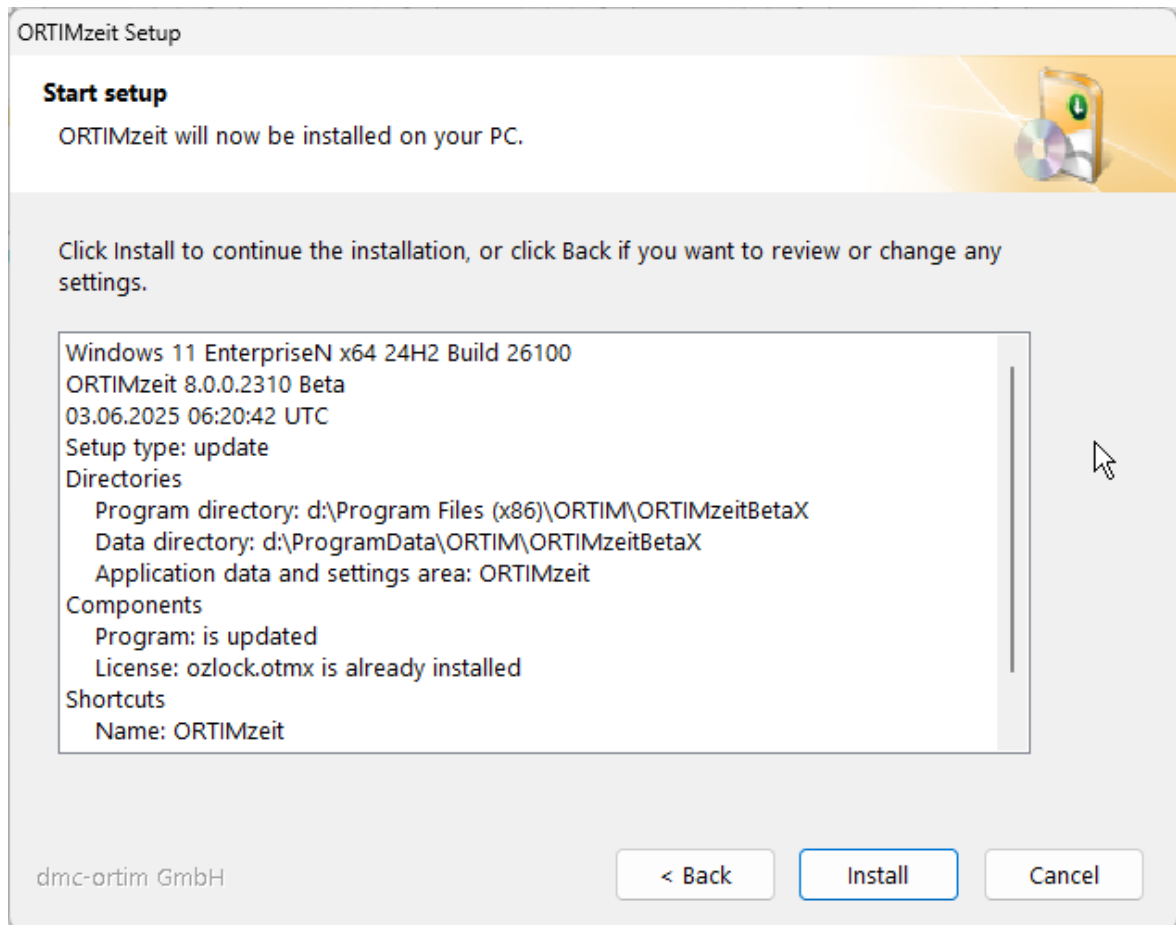
Select license file

Select the folder containing the license file provided by dmc-ortim. This file will then be copied to the correct folder during installation, allowing the application to be activated online the first time you launch the program. If there is no internet connection, a dialog box for manual activation will appear. You can obtain the activation code by phone or email by providing the device code and copying it there.



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 ORTIMzeit 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 ORTIMzeit and repeat the installation sequence for the update.



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

Updating sequential network licenses

Updating network licenses is only necessary if you purchase additional program modules from dmc-ortim.

Reactivation is required afterward.

Downloading updates from the Internet

In addition to the update function directly within the application, you can download updates and service packs for your ORTIMzeit version from the download page.

Complete program versions are also available for download there.

Enter **www.dmc-ortim.de** as the address in your internet browser and visit our download center there.

3.9 Launching the program

first program start

When you launch the program for the first time on your PC, you will be prompted to select the program language. The login window will then open. Log in here with the user **Abel** and password **a**.

After successfully logging in, you will be prompted to change your password because it does not meet the security requirements. Enter the old password **a** and a new password twice. The new password must be at least seven characters long and contain uppercase and lowercase letters, numbers, and special characters.

Memorize the new administrator password. For security reasons, you should create your own administrator user and then delete the predefined user Abel.



The user Abel is a system user who has all permissions within the ORTIMzeit system. Please create your own user with passwords later and then remove the user Abel.

License

The license will be automatically activated the first time the program is started, provided the license file was copied to the data directory during installation.

If automatic activation fails, you may be prompted to manually activate the license. The following window will open.

ORTIM

Activate license



The license 1100 must be activated with an activation code.

Send the device code printed below to dmc-ortim. Click on the menu button down left and select how you wish to request the activation code.

You can enter the activation code later via the "Activation" option in the help menu.

Up until 03.05.2017 you can use ORTIMplan without activation.

Device code

39G9R

-

QWC5E

-

OT2UO

-

76VKX

-

V9VC6

Activation code

-

-

-

-



Continue without activation

Activate

Cancel

Click the menu button in the bottom left corner and send the device code to dmc-ortim. Then enter the activation code sent by dmc-ortim into the five input fields.

If you install ORTIMzeit at a time when the dmc-ortim hotline is unavailable (at night or on weekends), you can use the program for a short time without activation. To do so, click the *Continue without activation* button.

You will then be reminded of the required activation the next time you start the program.

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 ORTIMzeit 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 ORTIMzeit scope of delivery) match the chosen user group.

User login

When you launch the program for the first time on your PC, you will be prompted to select the program language.

The login window will then open. Log in here with the user **Abel** and password **a**.

Immediately afterwards you will be asked to change your password.

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:

Windows user permissions

Make sure that the data directory and all subdirectories have full permissions.

Diagnosis and log file

If the problems cannot be resolved using the method described above, you can use the `"/diag"` command-line option to diagnose potential problems. If this diagnosis is unsuccessful, you can use the `"/diagsimple"` command-line option. The results of the diagnosis will be displayed in a window from which you can save the diagnostic file or send it to dmc-ortim as an email.

The `"/log"` command-line option opens a window from which you can save the program log file to another location or send it to dmc-ortim as an email.

The `"/update"` command-line option allows you to download the latest changes and enhancements from the Internet to resolve potential problems.

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



To launch ORTIMzeit with a command line option, you can either copy and edit the shortcut and enter the corresponding character string after the file name `Ozeit32.exe`. An alternative way is to launch the program with the command line from the command prompt or by selecting "Execute" from the Windows Start menu.

3.10 Manage licenses

Assigning Serial Numbers to User Groups

The serial numbers released for use can be assigned to user groups. The license file supplied by dmc-ortim contains all the serial numbers you have purchased. These are normally (unless restricted) fully available to all groups and users. For a user group, you can select which serial numbers are made available to the group, its subgroups, and all users in the group.

Serial numbers can be used by multiple user groups, meaning overlaps are possible.

Serial number management can be controlled via user management. This allows these management functions to be performed by specific users without the normal system administrators being able to make changes.

Assigning Serial Numbers

In the Softlock program protection, licenses are assigned after user login. Licenses can be assigned to user groups or individual users.

Each license is linked to a specific module configuration. The assignment between the serial numbers and the program modules can be found in the included license data printout.

After logging into the program for the first time, user groups and users must be set up in ORTIMzeit's user management. Then, serial numbers must be assigned to the groups or users.

Create sub-group...	Ctrl+Ins
Move...	F2
Delete	Del
Rename	F2
Copy users from domain...	
Change group settings	Alt+ENTER
Assign roles...	
Apply serial numbers...	

The menu items in User Management are active when users or groups are selected. Using the "Set Serial Number" entry, a serial number (e.g., 700101) can be assigned to a user or an entire group. After logging into ORTIMzeit, a program key with the associated license is generated for the user.

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

3.11 Software Update Service

Updates can resolve issues with individual program versions and provide new features.

Updates are provided as hotfixes (important updates) or add-ons (recommended updates) and are available to every user on the online support page.

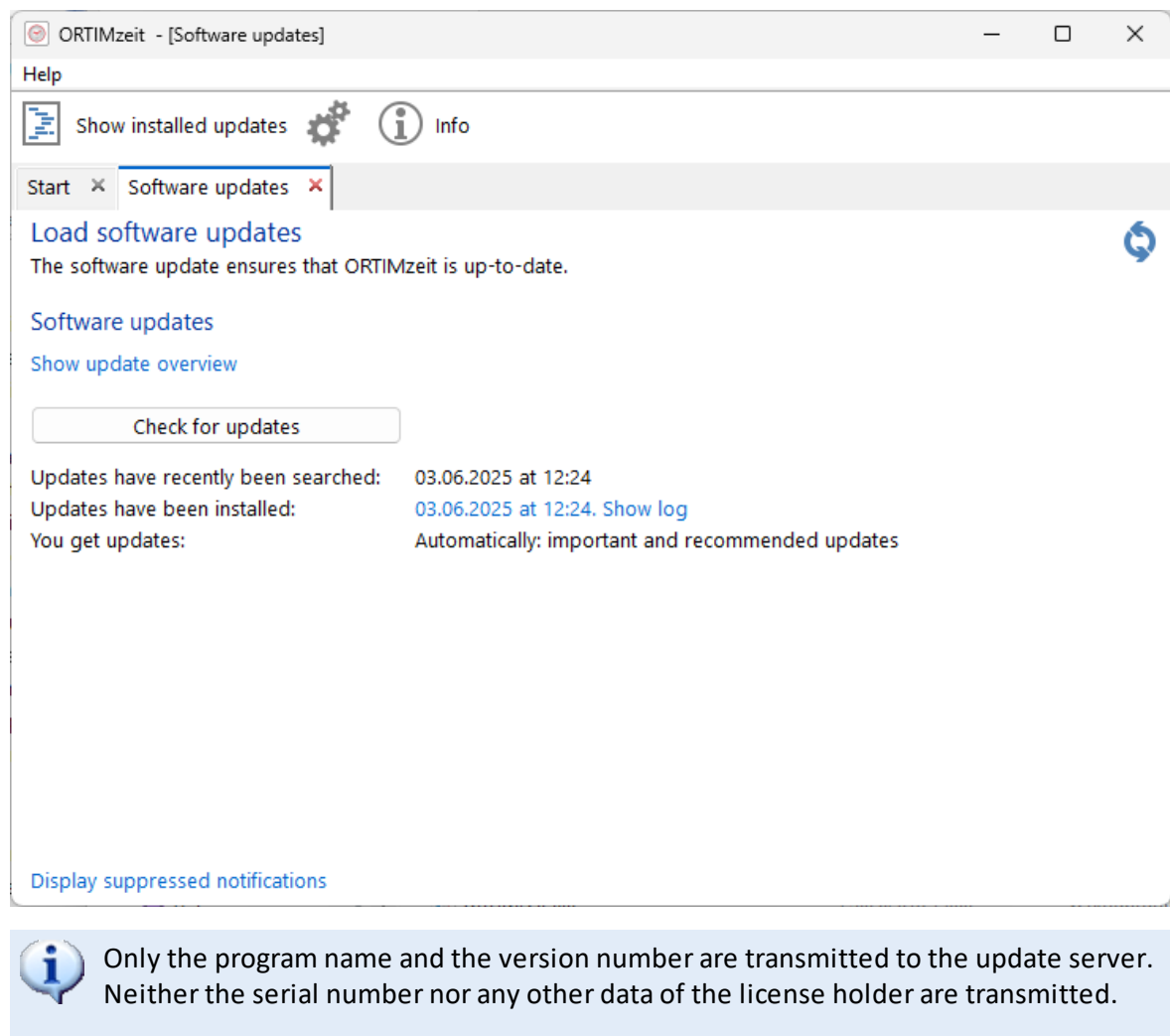


Before contacting the dmc-ortim hotline in case of problems, you should definitely visit the download center at <https://downloadcenter-ortim.dmc-group.com/dmc-ortim/> and search for updates for your program version.

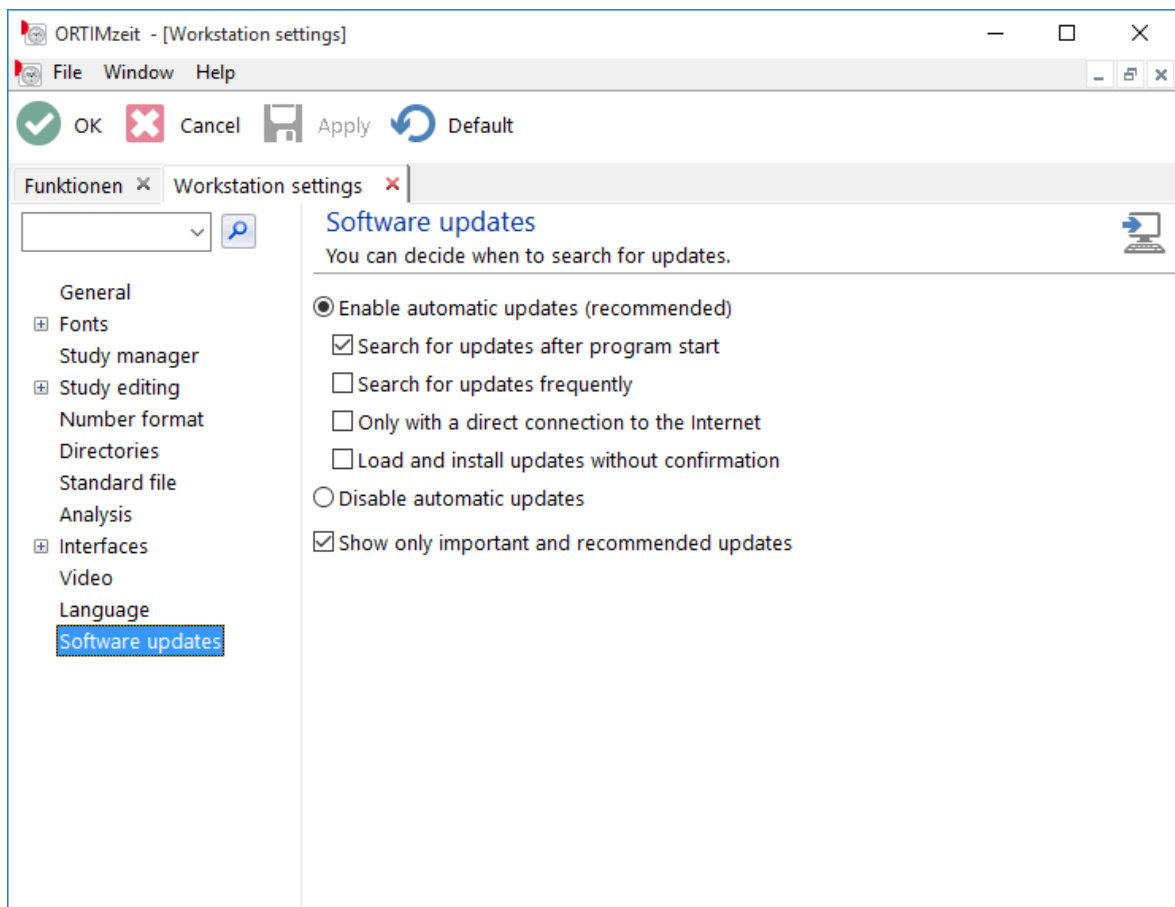
ORTIMzeit has an automatic **software update service**. This allows the program to update itself. An internet connection is established and the program searches for necessary plug-ins for the

program version in use. The plug-ins can then be downloaded and installed automatically. The program does not need to be restarted afterward.

We recommend using the automatic software update service if you have a direct internet connection.



The settings are configured in the following dialog.



The permission governing the use of the Software Update Service is configured in the User and Workstation settings.

3.12 Configure program to run as service

If ORTIMzeit is installed on a network server and the program is intended to perform tasks on that server, ORTIMzeit can be configured as a Windows service on the server.

The setup is done using a separate installation program.

You must run the installation program on the server on which ORTIMzeit is installed.

During installation, you will be asked for the program directory of the ORTIMzeit installation and a ORTIMzeit user (service user) and their password.

You set up this service user beforehand using the normal ORTIMzeit program.

When do I need the service?

Setting up a service is always useful if the program is installed on a central server and regular tasks need to be performed. These include, for example, data backups and database diagnostics. The service ensures that the tasks are executed even when all users have closed the program.

If ORTIMzeit is set up as a service, the program has no interface. ORTIMzeit then runs in the background, independent of user login, and can only execute tasks in the task scheduler. The tasks are executed directly on the server with maximum performance.

When creating a task, users can specify the service user, who then executes the task. The service user (e.g., service) is specified when setting up the service (see below).

Do I need a separate license?

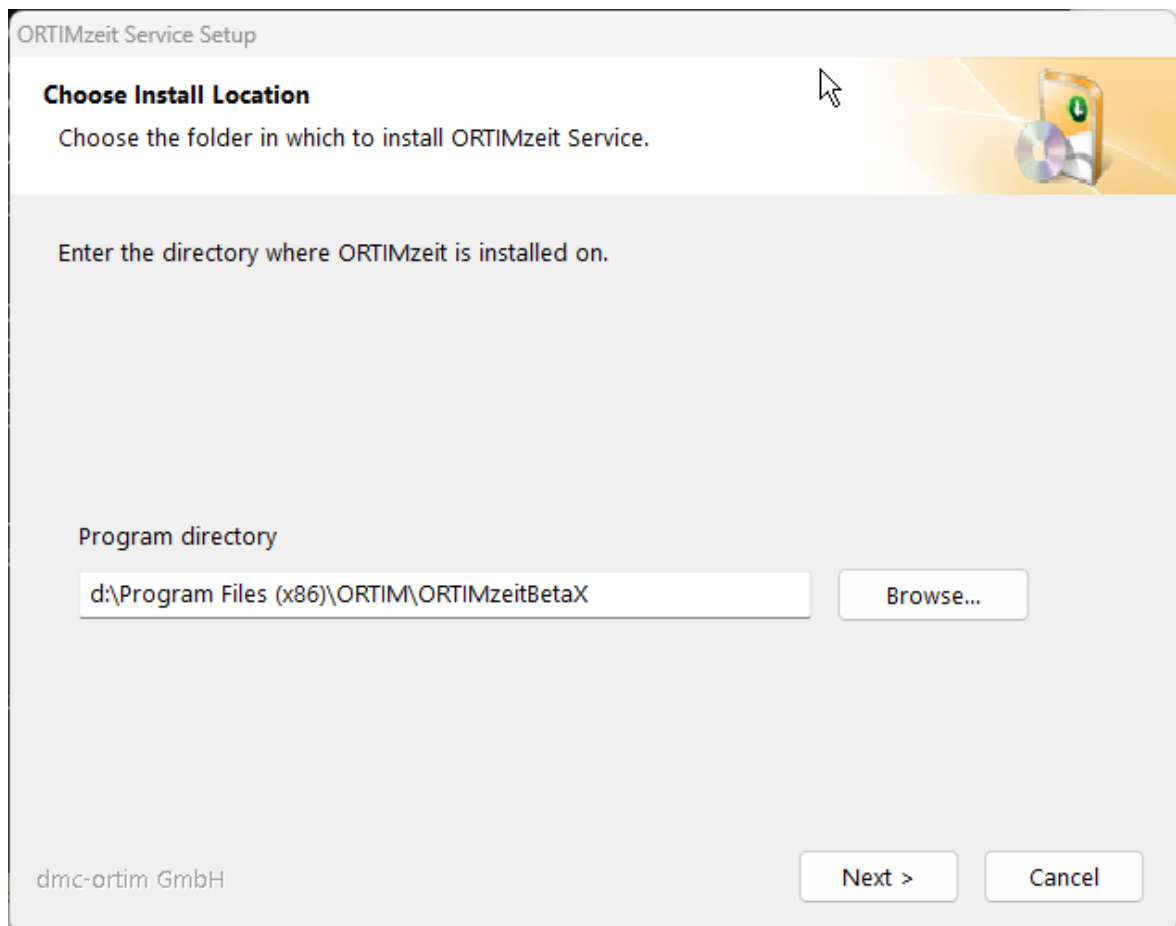
Yes, a normal ORTIMzeit license is required. The license has to be assigned to the service user in the user manager.

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

If a task is to be performed that requires a specific program module, the license must include the program module.

Setup service

The Windows service is configured by the separate installation program SetupORTIMzeitService.exe.



Enter the program directory of the ORTIMzeit installation.

ORTIMzeit Service Setup

Setup PC service

Enter the logon data, used when ORTIMzeit is startet as a service.



Create a user group <Service> in ORTIMzeit. Create a user under the user group and enter the logon data below.

ORTIMzeit logon data

Logon code

The logon code is printed in the account settings in the ORTIMzeit user manager.

Multiple services

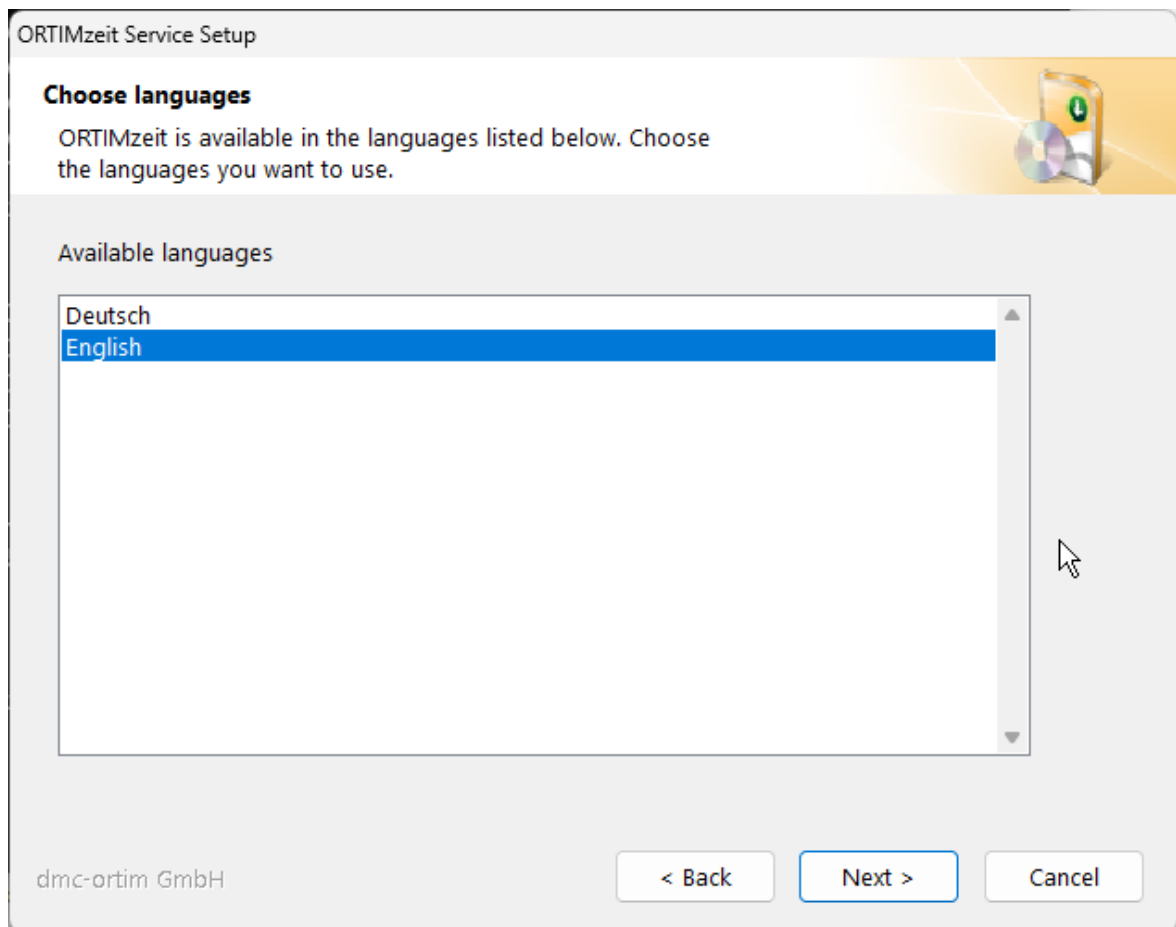
ID

Identification when using multiple services: enter a number (1 .. 4).

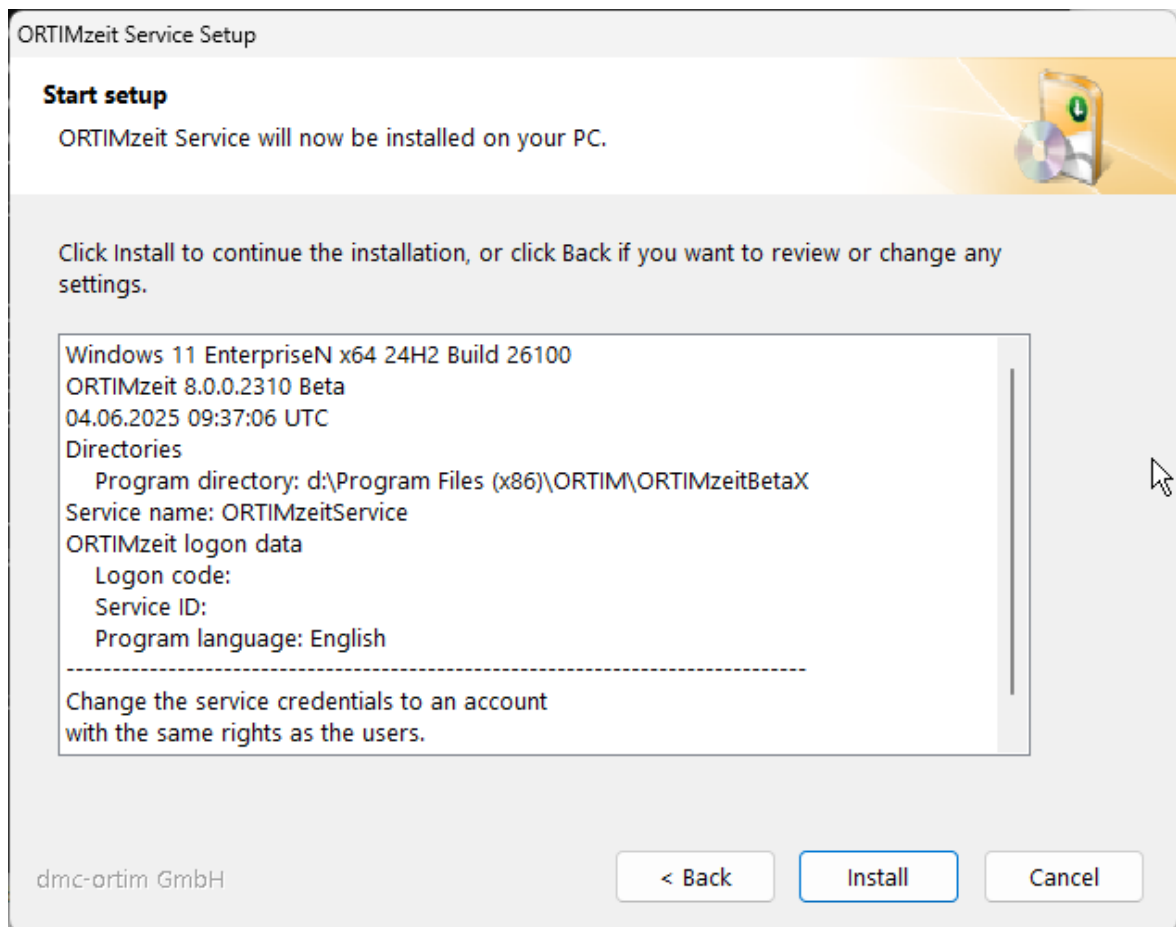
dmc-ortim GmbH

< Back Next > Cancel

Enter an ORTIMzeit user and the password. The user must be added in the ORTIMzeit user manager before. Be sure that the user uses a valid license.



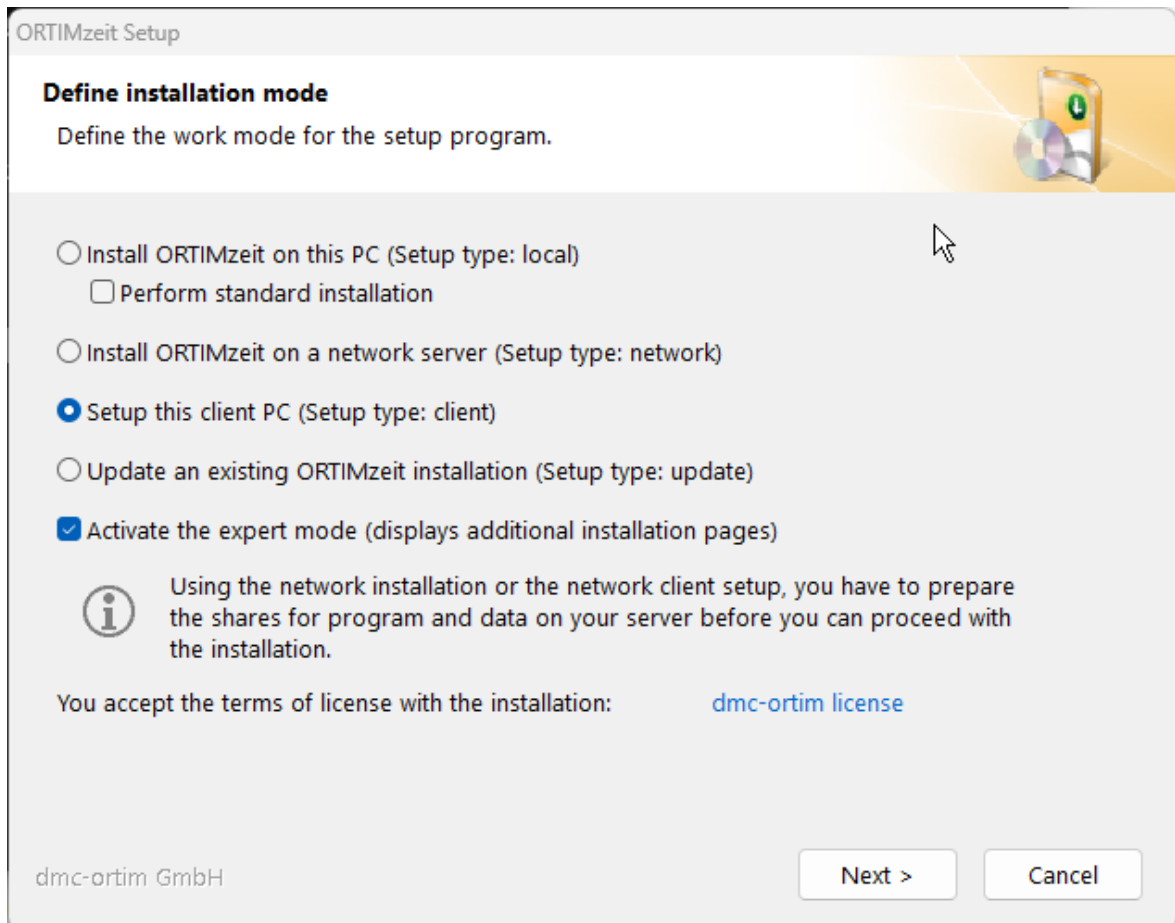
Enter the language the service uses for printing messages to the task log.



Press Install to install the service.

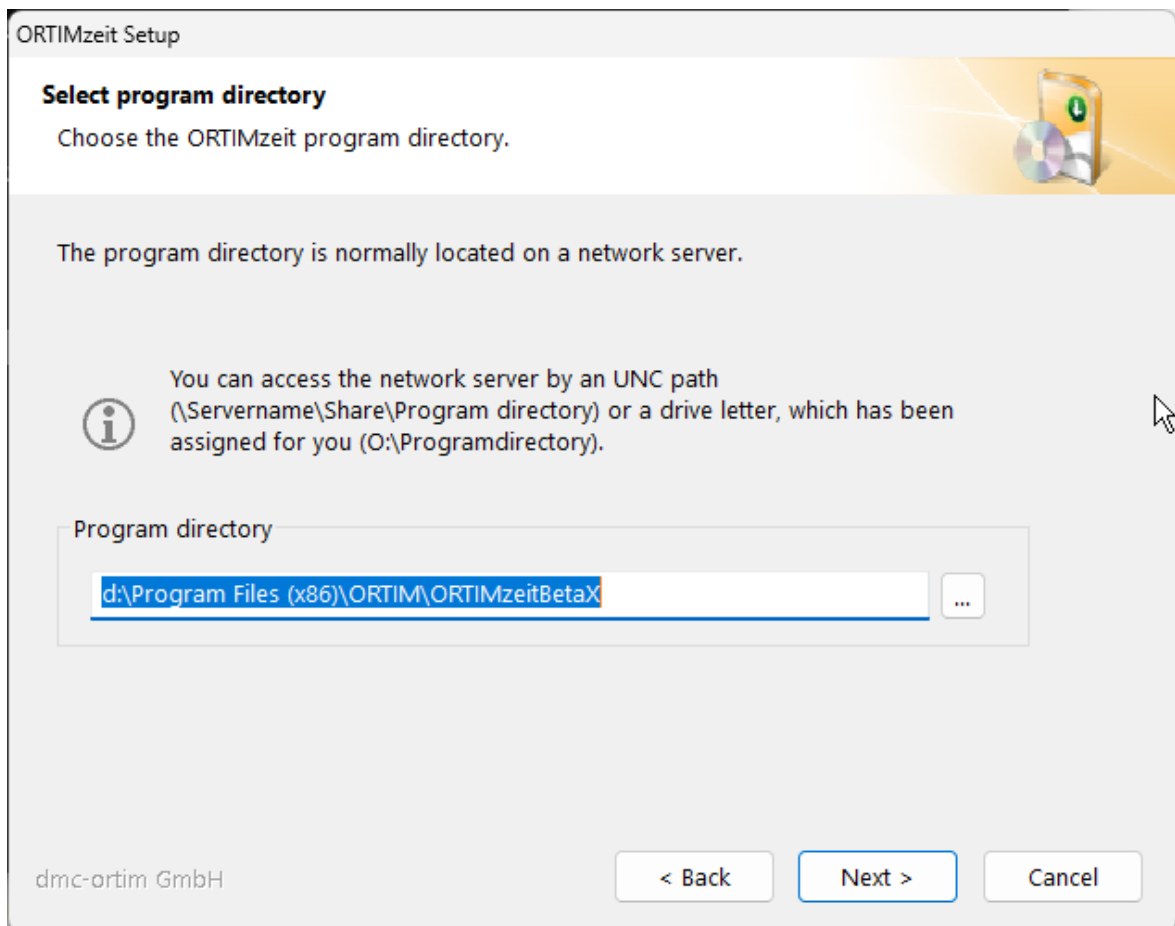
3.13 Setup client PC

If you want to set up a network workstation, select the installation mode “Set up this client PC”.



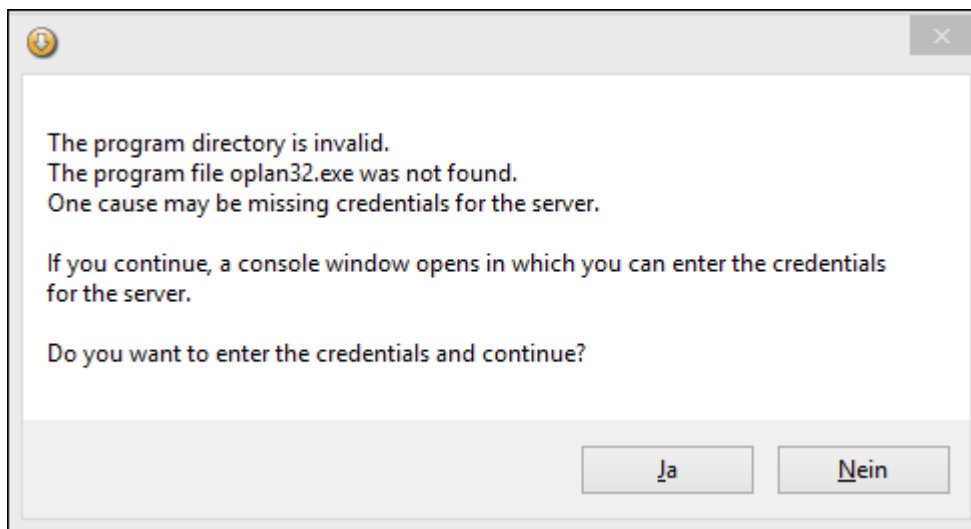
Choose program directory

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



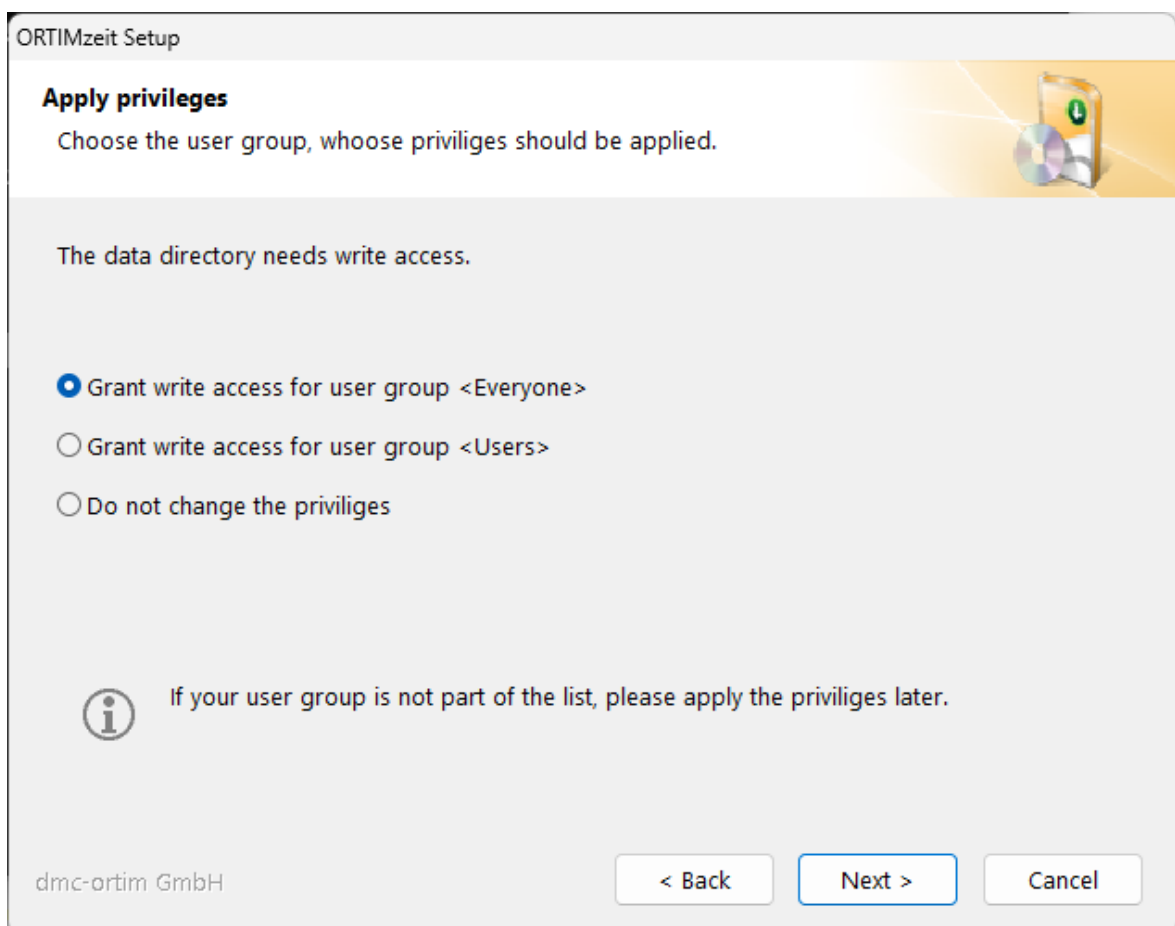
During installation, specify the network directory where the program resides. You can select the directory via "Browse ..." or enter it directly into the input field.

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



Apply privileges

This screen only appears in Expert mode.

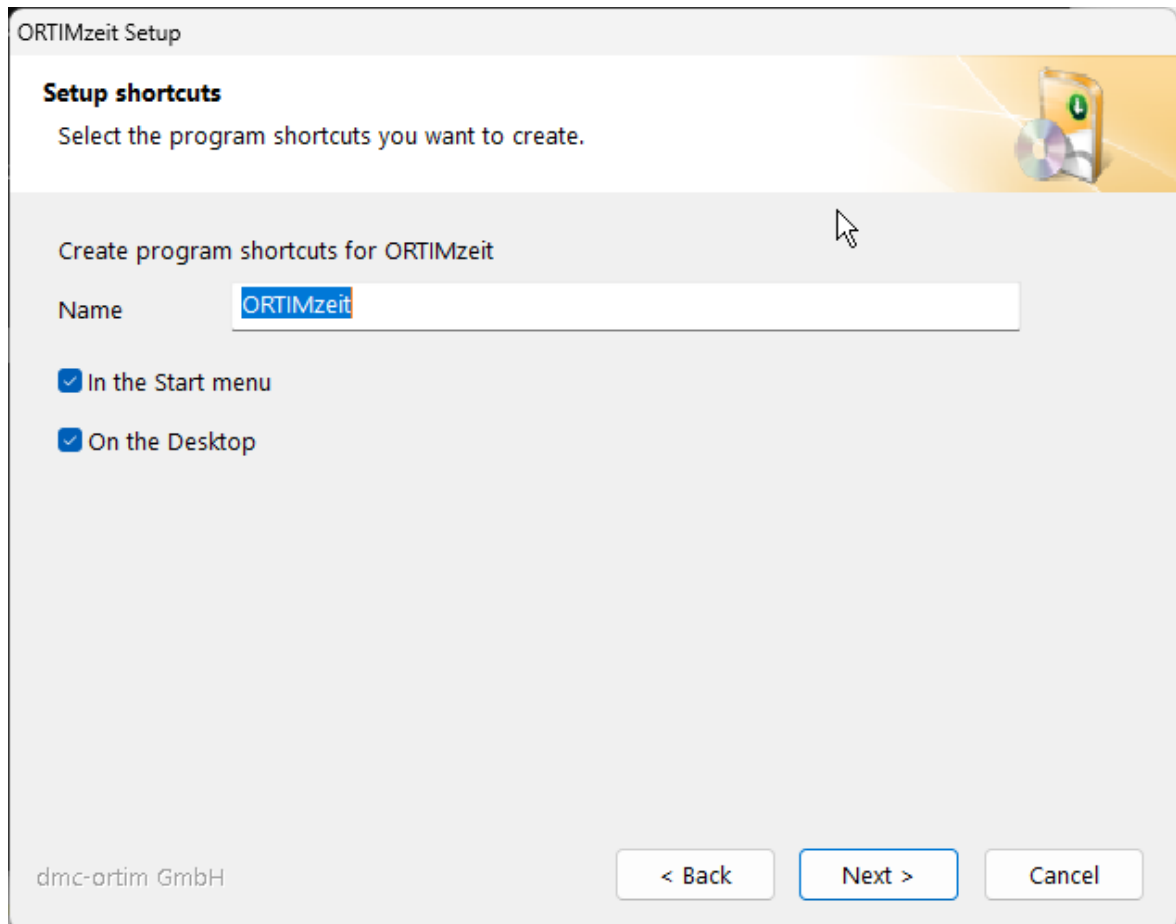


Select the PC privilege group you want to assign to the data directory.

Setup shortcuts

On this page you can decide, where the program shortcuts are created.

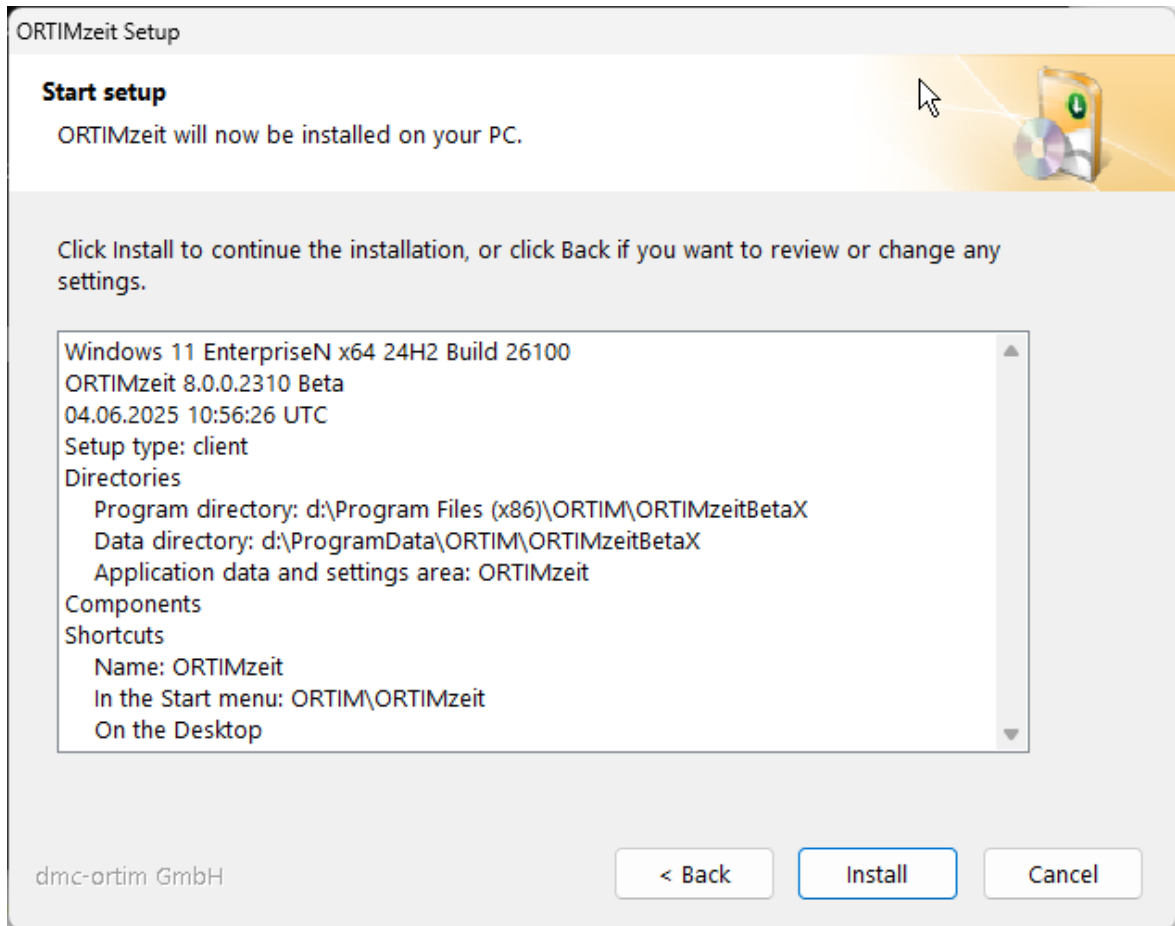
The shortcuts are created with the name entered in the entry field.



The screenshot shows the 'ORTIMzeit Setup' window. The title bar reads 'ORTIMzeit Setup'. The main heading is 'Setup shortcuts' with the instruction 'Select the program shortcuts you want to create.' Below this, it says 'Create program shortcuts for ORTIMzeit'. There is a text input field labeled 'Name' containing the text 'ORTIMzeit'. Two checkboxes are present: 'In the Start menu' and 'On the Desktop', both of which are checked. At the bottom left, the text 'dmc-ortim GmbH' is visible. At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'Next >' button is highlighted with a blue border. In the top right corner of the window, there is a decorative graphic of a CD and a folder icon.

Installation

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



If you press the "Install" button, the workstation is set up.

If no database system PSQL Client is installed on the workstation PC, the PSQL Client database system is automatically installed with ORTIMzeit. The database system is integrated in the ORTIMzeit installation.

3.14 Possible application scenarios

Geben Sie hier den Text ein.

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 ORTIMzeit 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 and database preparation should be completed before the training begins.

Start the program once to ensure that all steps of the installation process have been completed successfully. If you are using multiple workstations, it is also important to start the program simultaneously on all workstations. Some problems will only become apparent then.

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

If problems arise during this phase, you will find detailed solutions in the following section. The program will start successfully if you have logged in as a user (after delivery, the user Abel with the password a is available).

Please also consider all available updates (hotfixes, add-ons, extensions) and utilities from the Internet.

Test installation

If you wish to test the new ORTIMzeit program version prior to using it, you can carry out the installation on the same PC or server. During the installation, select Expert mode 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.

3.15 Windows terminal server

ORTIMzeit can be used without any restrictions on a Windows terminal server system.

3.16 Copying ORTIMzeit to a different computer

If you want to move an existing network workstation to another computer, not all backup steps may be necessary depending on the program settings.

We still recommend completing the backup steps outlined below.

back up files

If you have already used ORTIMzeit and are moving to a new computer, you should first back up some files.



The easiest way is to perform the backup yourself. To do this, use the "Backup" task in the ORTIMzeit Task Scheduler (for a detailed description, see the "Basics" guide).

Form database

The form database OZFORM.OTMX is located in the configured system directory. This is usually the "System" directory under the data directory of ORTIMzeit.

Back up the form database.

Time type surcharges

Custom time type surcharges are saved in the Ozeit32.CFG file in the configured system directory.

Save the time type premiums.

Settings

The settings are managed in the Windows registry:

```
HKEY_CURRENT_USER
\Software
\ORTIM Industrial Engineering Deutschland GmbH
\ORTIMzeit
\Settings
```

The CONTROL.INI file may also be located in the program directory. This file is optional, meaning it is not always present.

Back up the settings files.

User management

The CONTROL.INI file may also be located in the program directory. This file is optional, meaning it is not always present.

Back up the settings files.

4.1 Description of the control file for installing and uninstalling ORTIMzeit

It is possible to use the SETUP.INI control file to influence the setup, updating and uninstalling of ORTIMzeit. 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 (The program will be installed on the PC on which the installer is running)

License

Path

Description

Path of the license zip file deployed by dmc-ortim.

Possible values

A valid file name

Default

none (no license specified)

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

Description

Page for specifying the settings area where the workstation settings are stored in the registry database on the PC.

Possible values

0 or 1

Default

1

Shortcuts

Description

Page for setting shortcuts in the start menu or on the desktop.

Possible values

0 or 1

Default

1

AccessControl

Possible values

0 or 1

Default

1

SoftwareUpdate

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

The logon code is used when installing the ORTIMzeit service. In older versions, a user name and password were used.

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%\ORTIMzeit).

Possible values

A valid directory

Default

%PROGRAMFILES%\ORTIM\ORTIMzeit

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

Create

Does not need to be specified explicitly: the program directory is always created automatically.

DataDir

Path

Description

Path of the data directory (e.g. D:\ORTIMzeit). The directory must be accessible to all ORTIMzeit users within the network. All the users require write access to the data directory.

Possible values

A valid directory

Default

C:\ORTIM\ORTIMzeit

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

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

AppDataDirectory

Path

Description

Path of the application data directory in which files of a program session are stored.

Possible values

A valid directory

Default

%APPDATA%\ORTIM

SettingsKey

Key

Description

Settings area (e.g. ORTIMzeit 8.0.0) under which the workstation settings are stored in the registry database on the PC.

Possible values

A valid directory

Default

ORTIMzeit

Rights

AccessControlGroup

Description

Permission group set for the Zen settings, Zen working directory, and application data directory.

Possible values

Everyone, User, None

Default

Everyone

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 ORTIMzeit 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

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” and “DataDir”.

%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 program directory.

%HOSTNAME% and %COMPUTERNAME%

The variable is replaced with the computer name of the computer on which the installation program is launched. This allows you to create paths that can be used without modification for installations on different systems.



Example:

\\%HOSTNAME%\ProgramFiles\ORTIM\ORTIMzeit
is replaced during execution by e.g.
\\ORTIMServer\ProgramFiles\ORTIM\ORTIMzeit\

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

```
Filename: SETUP.INI
;
; Contents:        This file controls the behavior of installers and
;                  uninstallers.
; Files:         Setup.exe, SetupDeutsch.exe,
;                  SetupClient.exe, Update.exe.
; Description:    The file is searched 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

; Section:        Program directory
; Description:    The program directory is the directory where the program
;                  files are installed.
; 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
Create=1
Validate=0

; Section:        Data directory
; Description:    The data directory is used for the programs data files.
;                  Each user must have write access on the directory and
;                  all subdirectories and must have the right to create
```

```

;          new files.
; Default:   C:\ProgramData\ORTIM\ORTIMmulti, Validate=1, Create=1, Grant=1
; Path:      The path of the data directory
; Create:     If the directory does not exist, create it.
; Validate:   Check, if the directory exists. If not, use the default.
; Grant:      Grant the necessary user rights (write access for Windows
;             usergroup "Everyone") to the directory.
[DataDir]
Path=C:\ProgramData\ORTIM\ORTIMmulti
Create=1
Validate=0
Grant=1

; Section:   Components
; Default:   Backup=1, Program=1, Libraries=1, Examples=1, Hardlock=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).
; Examples:  Install the example projects.
; Hardlock:  Install the dongle drivers.
; Palm:      Install the Palm application (if available).
; WinCE:     Install the Windows CE (Pocket PC) application (if available)
[Components]
Backup=0
Program=1
Examples=1
Libraries=1
Hardlock=0

; Section:   LanguagePacks
; Default:   Deutsch=1, other languages=0
; (Language name): Install the language pack for the language if available.
[LanguagePacks]
Deutsch=1
English=0

; Section:   SoftwareUpdate
; Default:   Activate=
; Activate:  Activate the software update service
;           No entry: ask when the program starts
;           -1: disable software update service.
[SoftwareUpdate]
Activate=0

; Section:   Shortcuts
; Default:   ORTIMIcon=1, StartmenuIcons=1, DesktopIcon=1,
;           StartmenuFolder=ORTIM\ORTIMmulti,
;           DesktopIcon=1, QuickLaunchIcon=0

```

```

; ORTIMIcon:      Set a special ORTIM icon for the start menu folder
; StartmenuIcons: Create icons in the Windows start menu.
; StartmenuFolder: The application folder in the start menu.
; DesktopIcon:    Create an icon on the Windows desktop.
; QuickLaunchIcon: Create an icon in the Windows quicklaunch bar.
[Shortcuts]
ORTIMIcon=1
StartmenuIcons=1
StartmenuFolder=ORTIM\ORTIMmulti_SILENT
DesktopIcon=1
QuickLaunchIcon=0

```

```

; ===== Uninstaller=====
;=====; Section:      Unin-
staller behavior and components.
; Default:      Silent=0, Settings=1, Data=0, Hardlock=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.
; Hardlock:     Uninstall the Hardlock device driver.
[Uninstall]
Silent=1
Settings=1
Data=1
Hardlock=0

```

4.2 Description of the program control file

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

Directory

AppData

AppData=CurrentUsAppData=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

Settings

Key

ORTIMuser | User | Custom

Custom

if Key=Custom, a key must be inserted

User

Key

if Key= User, 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 logging.

Possible values: 0 or 1, default is 0.

Setup the application data directory

The application data directory stores, among other things, the log file and the key file with license data.

The application data directory is not specified. The CONTROL.INI file, located in the program directory, controls which application data directory is used.

The default is the personal application data directory for the logged-in Windows user.

This means that each Windows user has their own log and key file. Each user must enter the registration data for the dongle once after starting the program for the first time.

Keyfile

The key file for the ozeit32.key license stores license information required during the program session. The file is regenerated after user login.

An existing key file is loaded at program startup to retrieve the serial number from the license. This can lead to unexpected behavior after a license change.

RemoveOnStartUp

Specifies that the key file is deleted at program startup.

Possible values: 1 or 0, default is 1.

RemoveOnShutdown

Specifies that the key file is deleted when the program shuts down.

Possible values: 1 or 0, default is 1.

Example

```
[Directory]
AppData=CurrentUser
Die Dateien werden im persönlichen Anwendungsdatenverzeichnis verwaltet (das ist die Vorgabe).
```

```
[Directory]
AppData=User
```

```
[Anwender1]
Path=C:\ORTIM\Anwender1
Wenn der Windows-Benutzer „Anwender1“ angemeldet ist, werden die Dateien im Verzeichnis „C:\ORTIM\Anwender1“ verwaltet.
```

```
[Directory]
AppData=Custom
```

Path=C:\Einstellungen

Die Einstellungen werden für alle ORTIM-Benutzer im Verzeichnis „C:\Einstellungen“ verwaltet.

[AppDataDirectory]

Path=%APPDATA%\ORTIM\ORTIMzuit 5

Einstellen des Schlüssels für die Programmeinstellungen in der Windows-Registrierungsdatenbank

Unter dem Schlüssel werden die Programmeinstellungen abgelegt. Mit „ORTIMuser“ werden separate Einstellungen für jeden ORTIM-Benutzer verwaltet. Mit „User“ wird der Schlüssel verwendet, der im Abschnitt für den ORTIM-Benutzer eingetragen ist. Mit „Custom“ kann ein beliebiger Schlüssel verwendet werden, der unabhängig vom ORTIM-Benutzer ist.

[Settings]

Key=ORTIMuser

Wenn sich Benutzer „Abel“ anmeldet, werden die Einstellungen unter dem Schlüssel „Abel“ verwaltet.

[Settings]

Key=User

[Abel]

Key=Administrator

Wenn sich Benutzer „Abel“ anmeldet werden die Einstellungen unter dem Schlüssel „Administrator“ verwaltet.

[Settings]

Key=Custom

Custom=ORTIM

Die Einstellungen werden unter dem Schlüssel „ORTIM“ verwaltet.

Setup the minimum password length

You can centrally determine how secure your users' passwords are. You can also specify a minimum password length.

Example

[UserManager]

MinPwdLength=8

Enable logging

Example

[Logging]

License timer=1

Shutdown procedure=1

4.3 Directories and files

The directories used by ORTIMzeit are displayed in the program's system administration and directory settings.

Directories

Program directory

Contains the program file and files directly associated with the program. The directory is specified during installation and cannot be changed afterward.

Data directory

The data directory contains all modifiable files. The data directory and its subdirectories are the central working directory for ORTIMzeit.

Analysis directory

Contains the analysis systems (e.g. MTM-UAS) and the definition files for the analysis tables.

Time category directory

Contains the time category classifications.

Help directory

The help files are stored in the help directory. When the program starts, the help files are copied to the Windows user's application data directory and opened from there.

Manual directory

The manual directory contains the ORTIMzeit manuals in PDF format and other files that provide information about the program.

Language directory

The program's language files are located in the language directory. ORTIMzeit is currently available in German and English.

System directory

Contains the forms. By changing this directory, you can switch to a different work environment.

Import directory for time studies

Directory from which PCOs from evaluated ORTIMzeit studies are imported. This directory is the study directory of ORTIMzeit.

Image/document directory

Directory containing the images for time blocks as well as the icons for folders and time blocks.

Image directory from ORTIMzeit

The image directory specified in ORTIMzeit. This directory is required if time studies are to be imported into ORTIMzeit and the time studies or process sections contain images.

Database directory

Directory containing the program's databases. Individual databases can also be located and opened outside the database directory.

Log directory

The "Log" subdirectory of the program directory contains the program log files. The currently active directory is listed in the system administration (category "Directories").

Windows system directory

Directory in which the Windows operating system stores system-level components (e.g., libraries, drivers).

Directory variables

%DRIVE%

The drive letter of the drive on which ORTIMzeit is installed.

%APPDATA%

The application data directory of the current Windows user.

%PROGRAMDIR%

The program directory of ORTIMzeit.

%PROGRAM%

The program directory of ORTIMzeit

%DATA%

The data directory of ORTIMzeit.

%COMPUTERNAME%

The name of the computer running ORTIMzeit.

%HOSTNAME%

Like %COMPUTERNAME%.

Group directories

Three group directories are provided via the main groups of user management. The directories are available in the variables %GROUP1%, %GROUP2%, and %GROUP3%.

Files

Ozeit32.exe

Program directory

Program file.

Ozeit32.dll

Program directory

ORTIMzeit program library.

ORTIM32.dll

Program directory

ORTIM program library.

Ozeit32.key

7xxxnn.key

OrtimAppData directory

License entry. For the file 7xxxnn.KEY, xxx is the license number and nn is the workstation number.

Computername.log

Log directory

Log file for diagnostic purposes. Computer name is replaced with the Windows name of your PC.

OzFunc.otmx

Data directory

Program function database for user management.

OzUser.otmx

Data directory

User/group database of the user management system.

Tasks.otmx

Data Directory

Database for Task Scheduler tasks and logs.

Ozform.otmx

System Directory

The default form database.

***.zmb**

Time category directory

Time category classifications.

***.cfg**

Analysis Directory

Analysis Systems.

***.cfa**

Analysis directory

Definition files for analysis tables.

***.log**

Log directory

Log files of the database server.

***.pco**

Import/Export directory for time blocks

ASCII text files for PCO data import and export to ORTIMzeit.

***.plc**

Import/Export Directory for Time Blocks

ANSI text files for PCO data import and export to ORTIMzeit.

***.pdf**

Manual Directory

Manual files in PDF format.

***.chm**

Help directory

Help files in Windows Help format.

***.bmp, *.gif, *.png, *.pcx, *.jpg, *.jpeg, *.tif, *.tiff**

Image directory

Image files used by the program.

***.slI**

Data directory, Update directory

Plug-in files and libraries.

4.4 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.

4.5 Control of automatic activation

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

If this port is not enabled for ORTIMzeit, 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 (ORTIMzeit program directory).

;Parameters for license activation via the Internet

[Client]

address=activation.dmc-ortim.de

object=activation

port=80

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3. This Agreement is subject to German law. The place of jurisdiction is Kiel.

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