

UMS

Installation Instructions



Imprint



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German	T140041 de
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Current edition: Index 33 05.10.2022 Gula

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Software version

This document is valid for the UMS Universal Management System with the following software version:

Release 14.2

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- Measures and preventative actions;
- How dangers can be averted;
- Any other safety-related information.



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Document history

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Index 29 UMS R13.1

The most important changes compared to the previous edition:

Paragraph	New (n) / changed (c) / deleted (d)		What / Reason
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22.06.2021	c	Section 8.3	Picture inserted
22.06.2021	c	Section 2.10	Use activation code instead of HW dongle
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Index 30 UMS R14.0

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1 Introduction

The Installation Instructions describe the installation of the UMS Universal Management System.

1.1 Purpose of this document

The installation instructions are designed to provide the user with the following:

- How to install and commission efficiently.
- How to create the prerequisites to ensure the system and the concepts in the UMS are optimally adapted to customer requirements.
- A reference document when needed.

1.2 Target group

These installation instructions are intended primarily for project managers and system technicians of the UMS.

This documentation should be considered a supplement to the operating instructions; it is assumed that you are familiar with the operating instructions.

1.3 Prerequisites

- Knowledge of modern user interfaces with a mouse.
- If graphics are used, competence with modern graphics programs for creating graphics is necessary.
- All customer project requirements.
- Basic knowledge of the operating system in use.
- Completed UMS training module (basics, installation and configuration).

1.4 Typographic conventions

Terms which are between guillemets (« ») refer to elements on the screen (*window title, window content, etc.*) of the UMS (e.g. *The «alarm list» is shown in the main window*). Terms between guillemets (« ») next to an icon indicate a 'Tool tip' (e.g. *«Delete switch time»*).

Examples are in *italics*.

1.5 Using the mouse

In this document the terms 'click' and 'mouse click' always refer to the left mouse button. Functions which refer to the right mouse button are always specified as such.

1.6 References

- | | |
|---|-------------------|
| [1] UMS Configuration Instructions | Doc. no. T140042 |
| [2] Operating Instructions | Doc. no. T 140040 |
| [3] https://mariadb.org/ | |
| [4] UMS compatibility list | Doc. no. T 140611 |

1.7 Abbreviations and terms

Abbreviation/Term	Description
UMS	Universal Management System
Node	The term "node" refers to the hardware components, e.g. computer, industrial computer. An operating system is always installed on these nodes.
Runtime system	The term "runtime system" refers to the configuring nodes, i.e. UMS client and/or UMS server. It represents the customer system in productive application.

2 Basic installation

2.1 Operation system requirements

The UMS is enabled for the operating systems documented in [4].

2.2 Operating system installation



Operating system installation

Installation of the operating system on the hardware is not described in this document. The operating system must already be installed and network boards available.

2.3 Operating system user accounts

The following accounts have to be set up:

- **Administrator**
Used only for installing the operating system.
- **UMSAdmin**
The 'UMSAdmin' user must be used for all other installations and configurations once it is set up. It is a user account with the rights of a Windows administrator.

2.4 Anti-virus program

There must be no anti-virus program installed.

2.5 Network settings

If a DNS sever is configured in the network settings (adapter settings), it must be ensured that it is reachable and performant. If not, considerable delays can be expected (especially when using encrypted connections), which is then noticeable in the UMS applications.

2.6 Firewall

To operate the UMS securely and reliably when using a firewall, certain settings and port approvals are necessary. Section 6 of this document describes the settings to be configured and the necessary firewall rules.

2.7 UMS software deployment

Various installation packets are available for installing the UMS components; they will be presented in the following sections:

2.7.1 Setup for UMS Netagent

The software packet «Setup_UMS_Netagent_Rxx.x.x.x_yyyymmdd.exe» provides the installation routine for the UMS Netagent (see Section 3). You will find it in the provided UMS Setup in the 10_Setup_UMS directory.

After the installation of the UMS NetAgent, you will find all necessary scripts in the installation path of the program for installing and setting up the database (see Section 4).

2.7.2 Setup for UMS ConfigurationStudio

The «Setup_UMSConfigurationStudio_Rxx.x.x.x_yyyymmdd.exe» software packet provides the installation routine for the UMS ConfigurationStudio (see Section 8). You will find it in the provided UMS Setup in the 10_Setup_UMS directory.

2.7.3 Setup for MariaDB

The «mariadb-x.x.x-winx64.msi» software packet contains the installation data for the MariaDB (see Section 4). You will find it after installing Netagent in its runtime directory (for example C:\UMS\netagent\installer\mariadb\Install).

The explicit naming of the version number of the software is omitted. The current version released by the development is supplied.

2.8 Energy saving functions

For the reliable operation of the UMS components the energy saving functions of the computer in use must be deactivated. For example, access the Control Panel in Windows 7 and then «System and Security» → «Power Options» → «Change power plan settings». In the «Put computer to sleep after» selection list select «Never». Deactivate all energy saving settings in the «Power options» window, which you can access by clicking «Change advanced power setting».

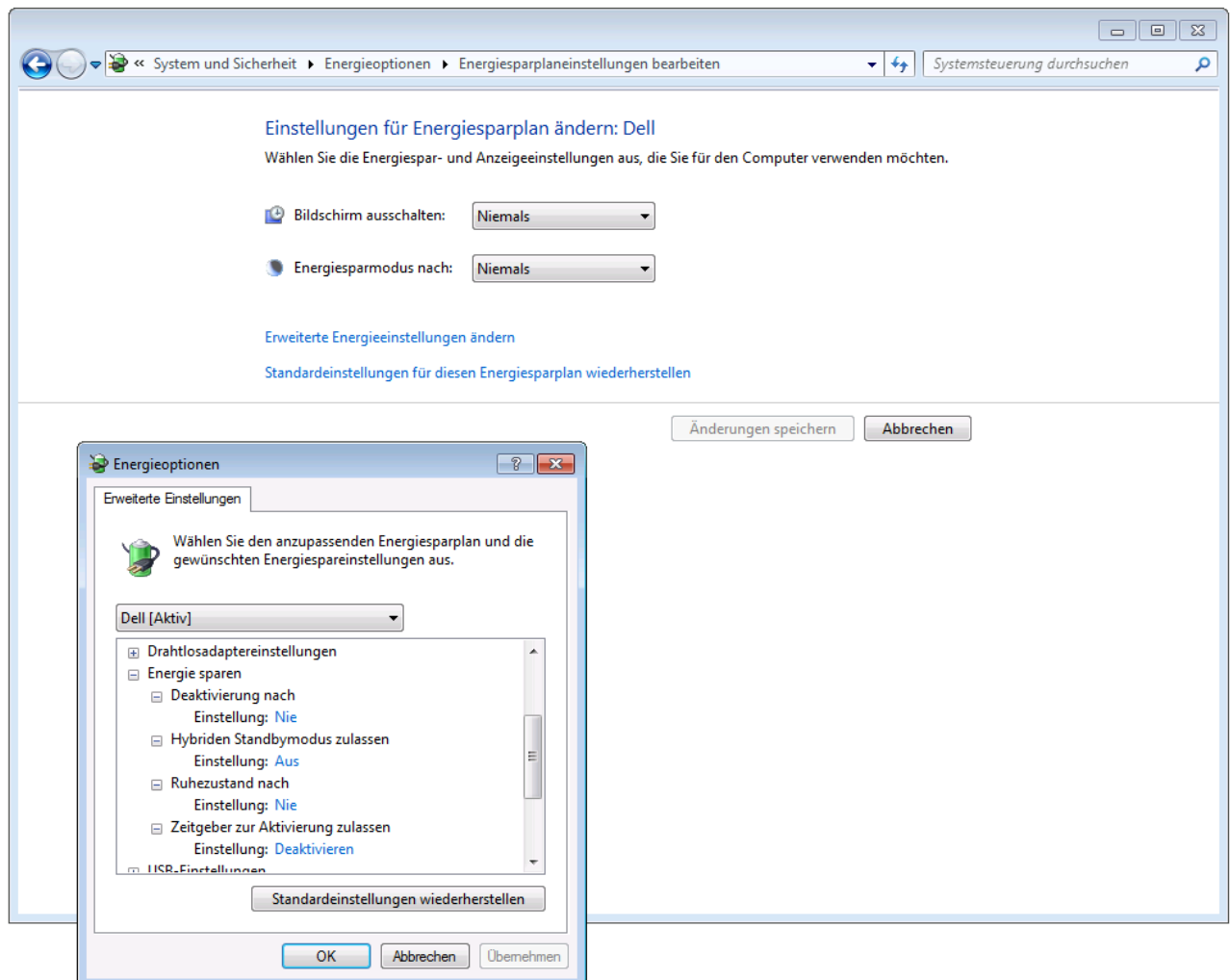


Figure 1: Energy saving functions in Windows 7

In Windows 10 you must also adjust the «Shutdown settings». In the default setting the option «Turn on fast startup (recommended)» is activated. When the system starts up with this setting, the UMS server and possibly also the NetAgent cannot be automatically started.

For this reason, the power options on all Windows 10 systems running a NetAgent must be configured as follows:

Access «Control panel» → «System» → «Power and energy saving» → «Additional power settings» → «Choose what the power buttons do». Deactivate the option «Turn on fast startup (recommended)». Note that you may have to identify yourself as administrator!

Basic installation

The following figures document these configuration steps:

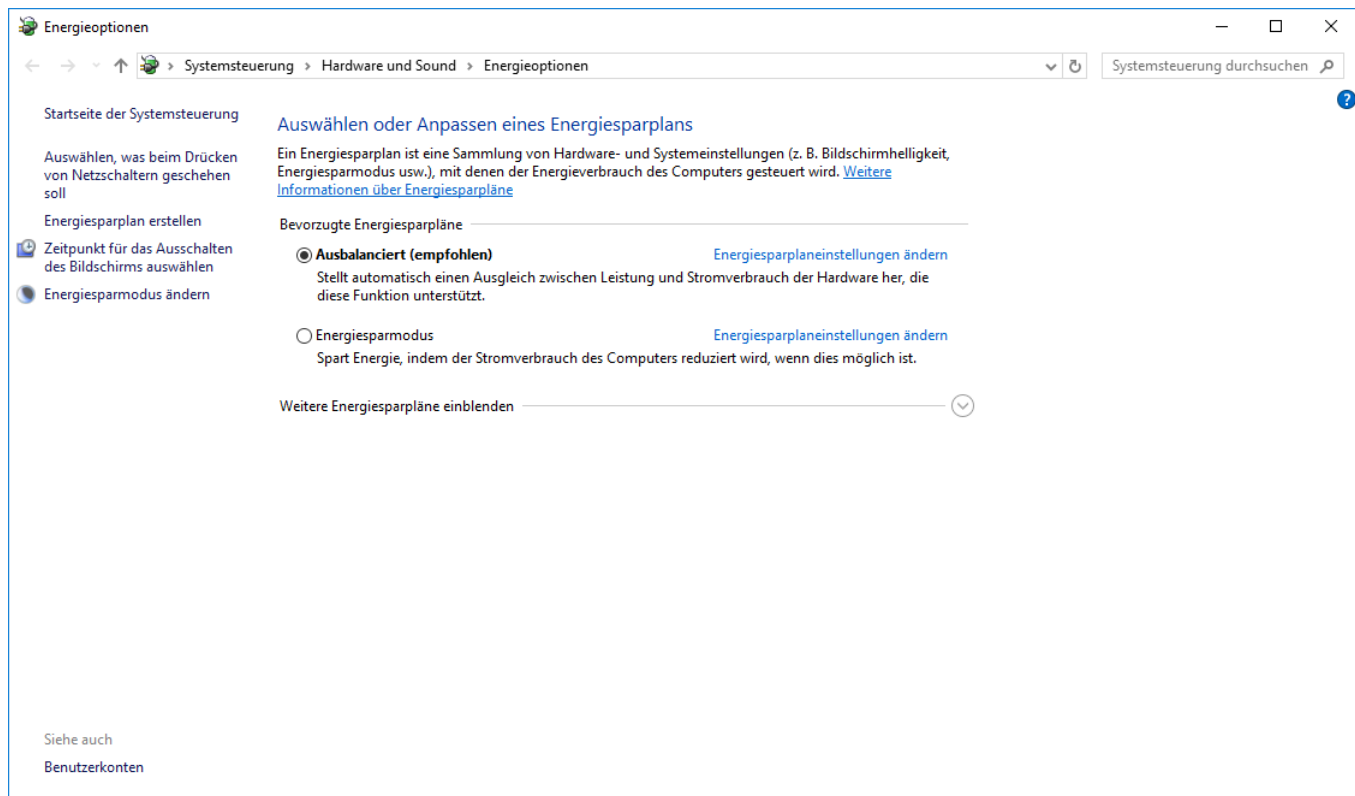


Figure 2: Access the power saving functions configuration in Windows 10

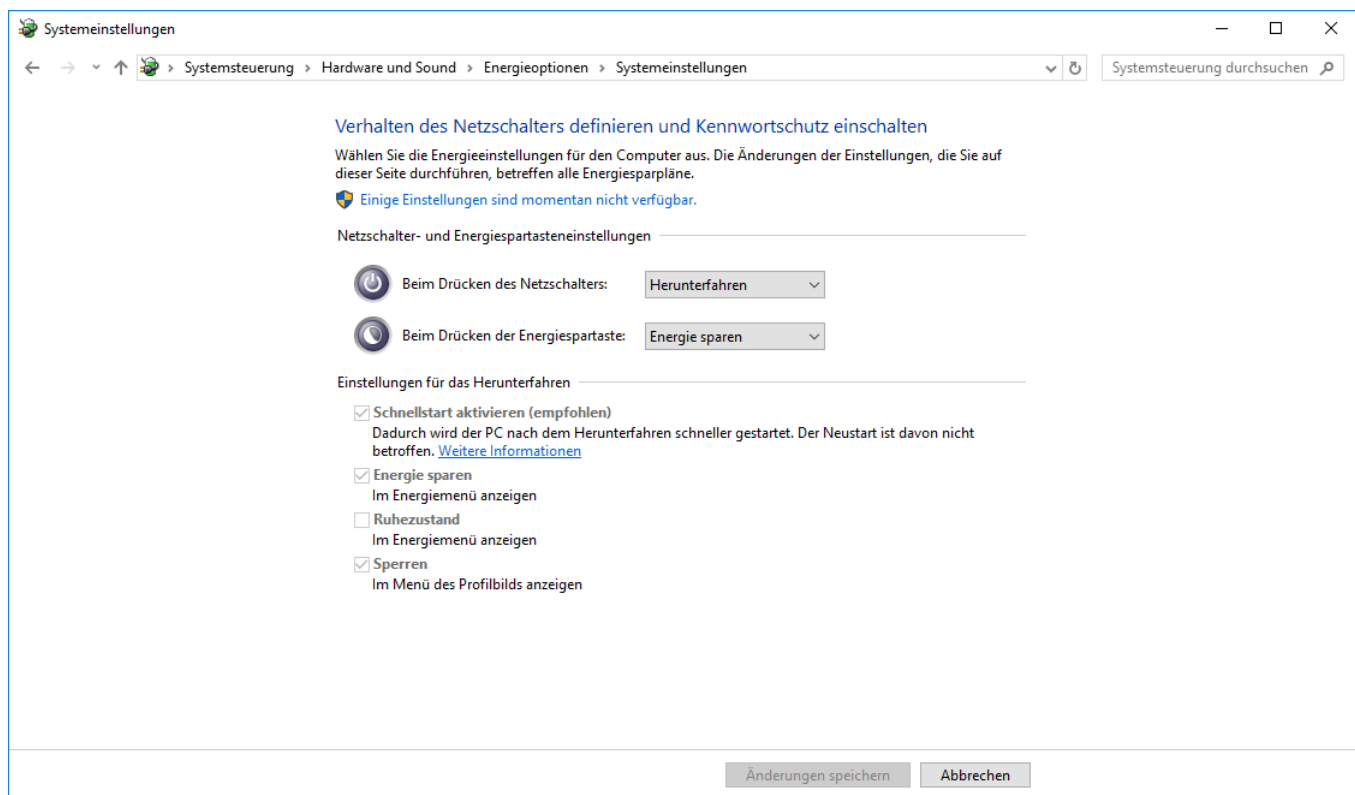


Figure 3: Default configuration of the power saving functions in Windows 10

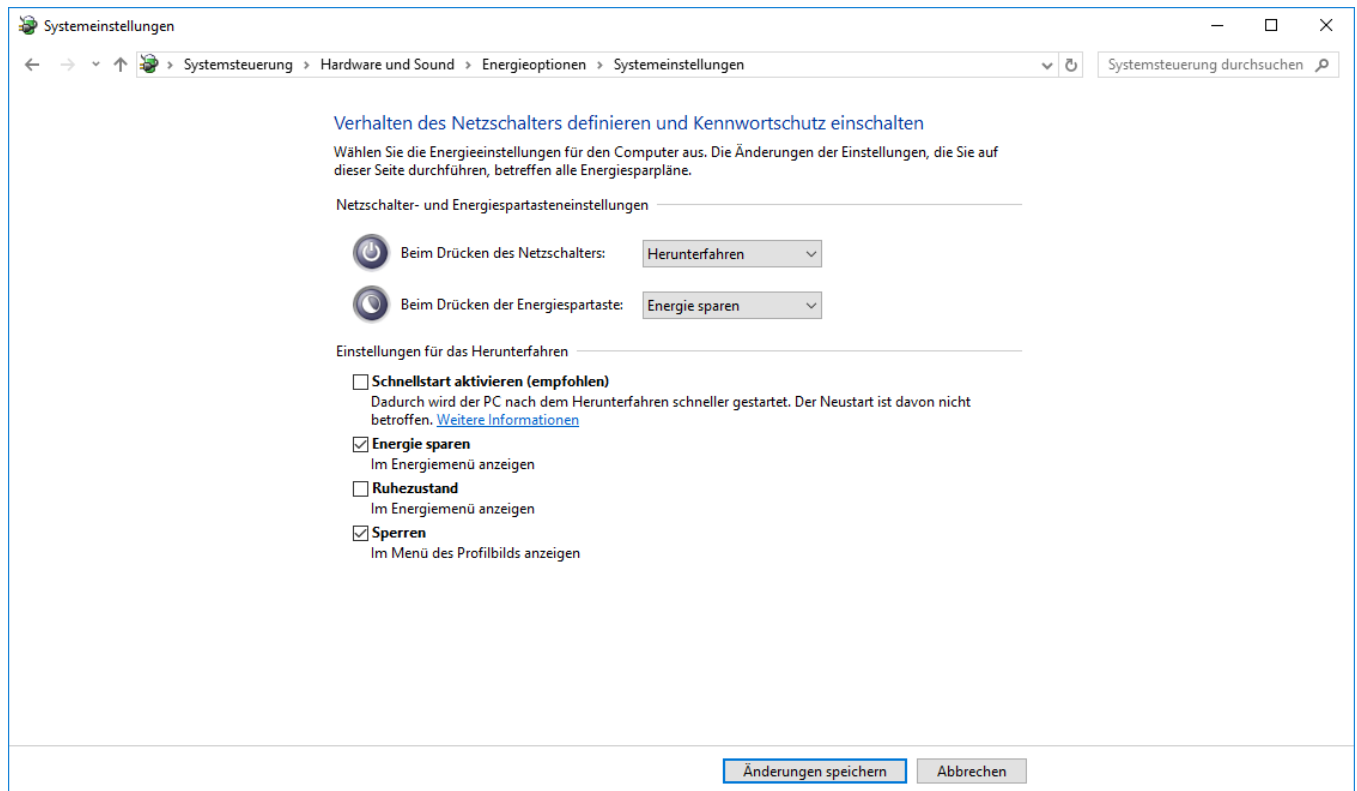


Figure 4: Required configuration of the power saving functions in Windows 10

2.9 Hardware requirements

Minimum hardware requirements:

- Processor: Core i processor
- RAM: 16 GBytes
- Hard disk: 200 GBytes
- Network card: (100 Mbit/s)
- Graphics card/monitor: Resolution 1920 x 1080 HD, 24-bit colour depth (per monitor)

2.10 Licence requirement

A licence dongle (hardware) or activation code (key for 1 version) are required to use the UMS. These must be purchased from Securiton AG.



Licence dongle

No licence dongle is required for performing the installation.

2.11 Windows updates

Please note that Windows updates may only be installed with the UMS switched off! The Windows function/setting «Install updates automatically (recommended)» therefore has to be deactivated. This applies to all systems where a UMS server, a UMS client or the UMS ConfigurationStudio is running!

2.12 Windows Server 2012 R2

As Windows Server 2012 is not designed as a desktop operating system, no desktop skins are installed following the standard installation. This can lead to an incomplete display in the user interface of the UMS ConfigurationStudio. For example, the progress bar (shown when loading a project etc.) is not displayed correctly, which may give the impression that the system has frozen. This can be prevented by installing a packet provided in Windows Server 2012.

Basic installation

Proceed as follows to install and activate the packet:

- Open the «Control Panel» and click on the «Turn Windows features on or off» function under «Programs».
- The Server Manager is started and the «Add Roles and Features Wizard» is opened.
- Click on the «Features» menu item and search for «User Interfaces and Infrastructure» in the selection list.
- Select «Desktop Experience» and confirm your selection in the window that appears by pressing the «Add Features» button.
- Press «Next».
- Complete the installation by pressing the «Install» button.

After the installation has been completed successfully, the desktop design installed in the previous step has to be activated. To do this, select «Appearance and Personalization» in the «Control Panel» and then «Personalization». Select «Windows» here.

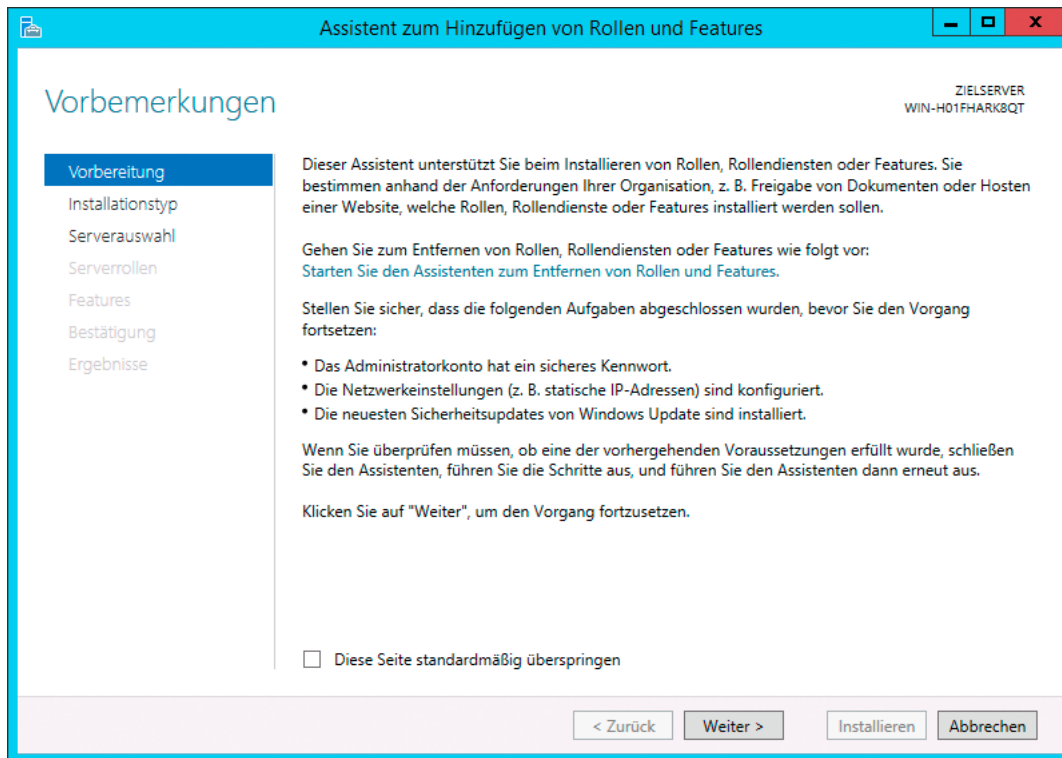


Figure 5: Add Roles and Features wizard

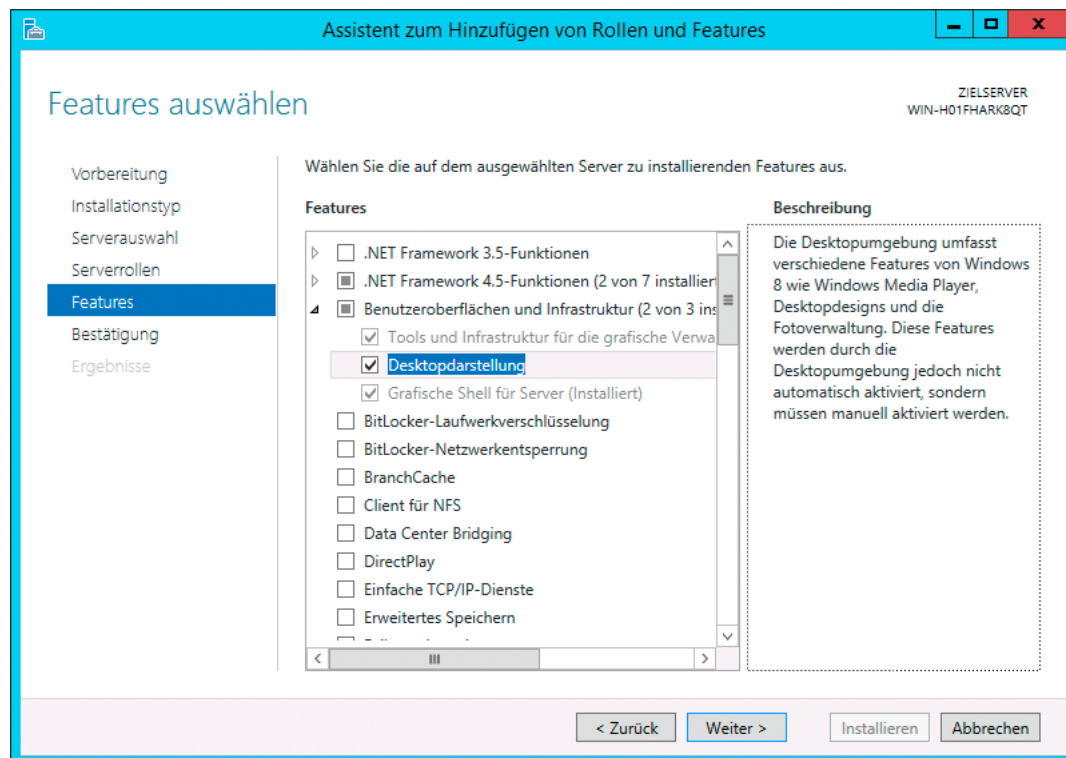


Figure 6: Adding desktop designs

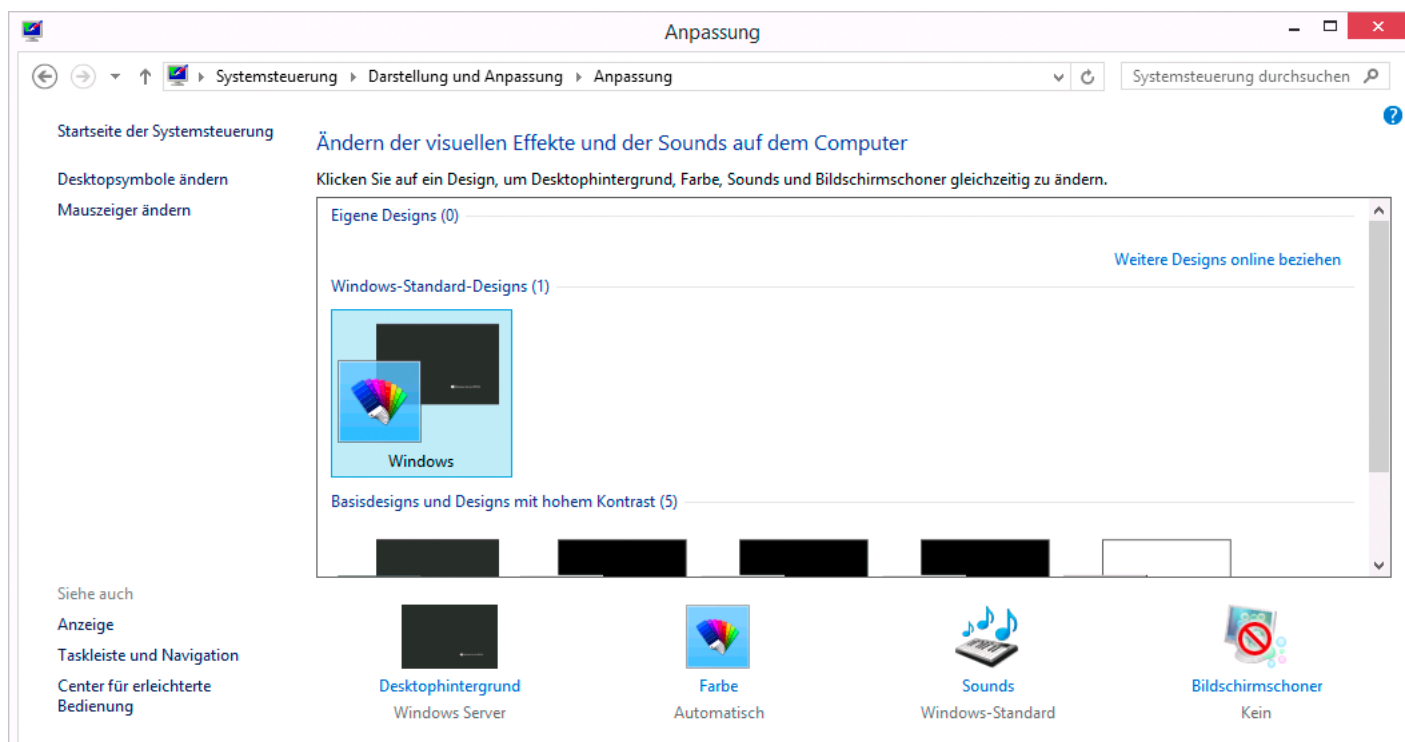


Figure 7: Adding desktop designs

2.13 Problem handling and special settings

2.13.1 Windows font size settings

Problem:

When using 4K monitors, faulty representations may occur during installation or operation of the UMS applications. Texts in different font sizes and pop-up windows may be too big.

Solution:

In this case, adjust the display in Windows settings.

On the Windows Desktop select

Start  > Settings  > System  > Display 

Then select «Advanced scaling settings» under «Scaling and arrangement».

Here set the switch to «On» so that Windows corrects the display.



Figure 8: Advanced scaling settings

3 UMS NetAgent installation

The «UMS NetAgent» application is installed as a service and serves the communication between the UMS ConfigurationStudio during project planning and configuration of the system on the one hand and on the other the hardware nodes (computers) that have the “actual” UMS runtime system (i.e. UMS server and UMS clients).

Consequently, the «UMS NetAgent» must be installed on all hardware nodes that are to provide UMS components.



Notice

Hardware nodes on which only one client is to be installed can also be manually provided without NetAgent. In UMS ConfigurationStudio, export the required client configuration to a ZIP file and copy it to the target computer (see document [1]).

3.1 Installation medium

Using the «Setup_UMS_Netagent.exe» installation medium, the installation of the «UMS NetAgent» must be performed on every runtime system

3.2 Installation procedure

The installation medium must be copied to the hardware and can then be double-clicked to be run. The following screen then appears:

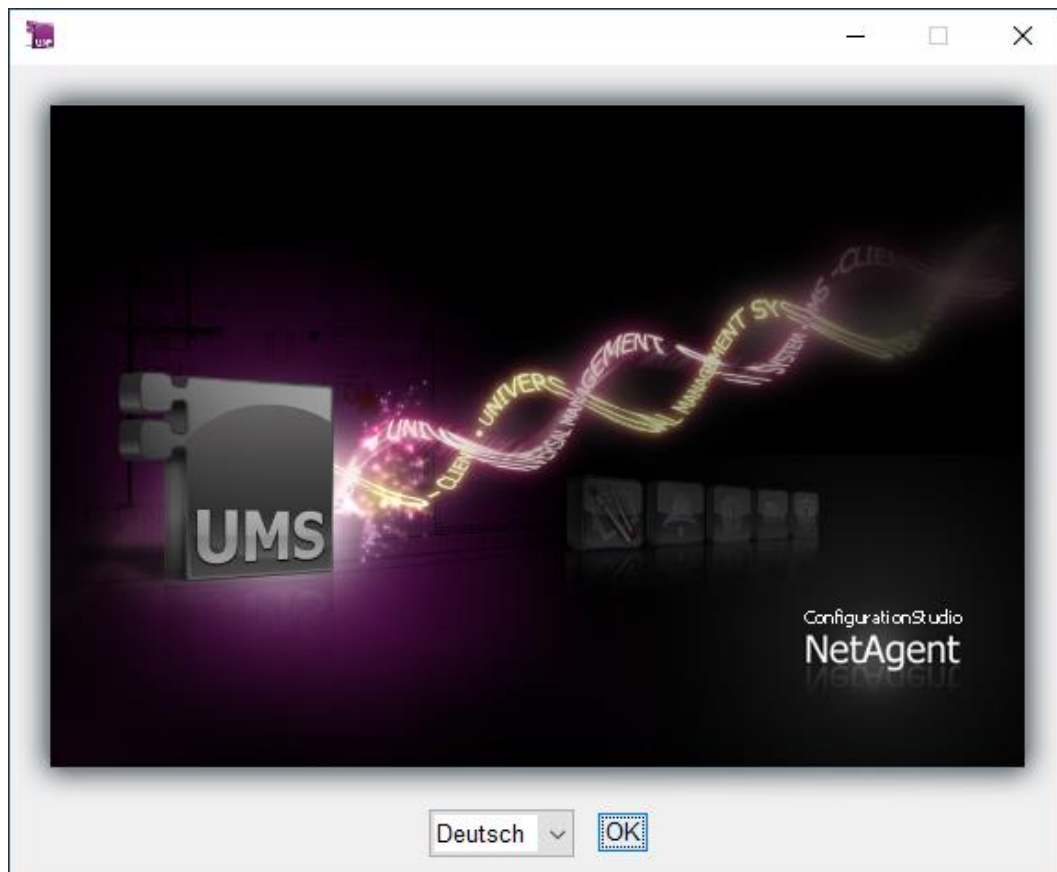


Figure 9: UMS NetAgent setup: language selection

Select a language from the selection list and continue by clicking the «OK» button. The installation process begins with the following screen:

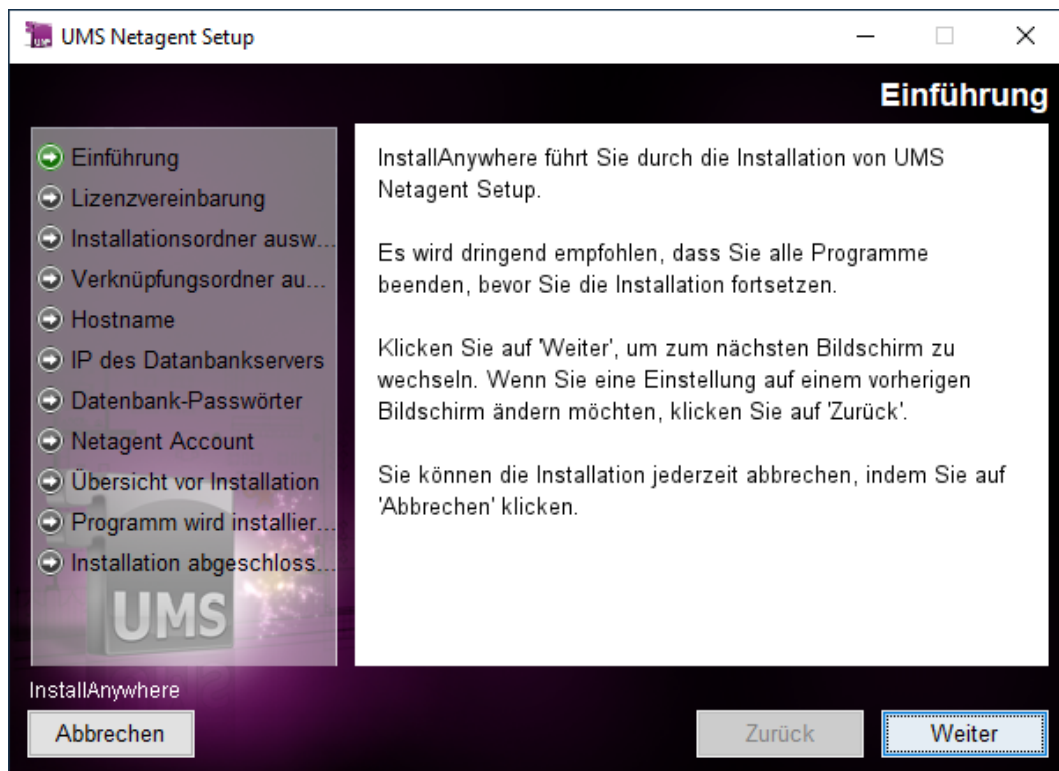


Figure 10: UMS NetAgent setup: introduction

The figure above lists all required installer steps for the installation. You can use the «Continue» and «Back» buttons to navigate the individual steps.

3.2.1 Step: Licence agreement

First the licence agreement is displayed. To be able to install and use the NetAgent, you must accept the licence conditions. Read the entire licence agreement and confirm.

3.2.2 Step: Select installation directory

In this step you define the location where the installation is stored.
The default path is "C:\UMS\netagent".

3.2.3 Step: Select link directory

It is recommended to have the program icon "In the Start menu" created. Two program icons are created there: "Start UMS NetAgent" and "Stop UMS NetAgent". They start and stop the NetAgent service.

3.2.4 Step: Host name

In the text entry field «Hostname» displayed here, enter the computer name is entered. The computer name read from the system and is the default value and suggested.

3.2.5 Step: IP of the database server

In the «IP of the used network interface» text entry field, an entry different from the default value is required only if a UMS configuration server is to run on the node.

In this case, the IP address of the computer with the UMS database belonging to the configuration server must be entered. The database must then also be reachable from the UMS ConfigurationStudio via this IP address during a system update. Normally, it is the same computer on which the UMS configuration server itself should run. It is important to note that in any case each UMS configuration server requires its own UMS database.

It is absolutely necessary that this computer has a static IP address (DHCP is not permitted). The IP address is permanently configured during installation; afterwards it can no longer be changed.

The initially suggested value in the text entry field is an automatically provided IP address from the system.

3.2.6 Step: Database passwords

The passwords for database access on the backend and journal are configured in this step. Enter the respective passwords in the text entry file and confirm by re-entering in the "Repeat" field. These passwords will be required again afterwards during database installation (Section 4.2.2).



Database passwords

Please keep these passwords in a safe place.

3.2.7 Step: NetAgent account

There are three choices.

- Windows system account (default)

This is created automatically during the Windows installation.

- Group Managed Service Account (gMSA)

A special Windows domain account for services; it has unrestricted rights on the computer. It must be permitted on the Windows domain for this computer.

- User-defined

A created account with name and password. It must have unrestricted rights on the computer (see 2.3 Operating system user accounts).

3.2.8 Step: Overview before installation

Here you can recheck the entries before you install the UMS NetAgent setup with the "Install" button.

3.2.9 Step: Installation completed

The installation location is displayed to confirm the successful installation. Click the "Finish" button to exit the installer.

The Netagent is ready to run.



Netagent run

The "UMS Netagent" is only required in conjunction with the UMS ConfigurationStudio if a system update is carried out there (see also [1]). In this case, make sure that the service has been started. The Netagent is not required during operation of the runtime system, so the service can be terminated after a system update (see 3.2.3).

3.3 OPC redistributables

When NetAgent is installed, components of the OPC distribution are saved automatically. You need them if you want to link subsystems to the UMS by means of OPC. The «OPC Core Components Redistributable (x64).msi» file is found after installation in the directory `netagent/installer/opc-redistributables/`.

Information about using these OPC components can be found in the subsystem descriptions that can be linked via OPC.

3.4 Remarks concerning updating older versions

Please note that the installation directory when a NetAgent is installed is not permitted to already exist! This is the case, for example, if you want to update an older version. In this case, you have to delete the existing directory before installing on your computer or you have to change the default path (see Section 3.2.2).



Figure 11: Installation directory already exists

When the NetAgent version 10 is installed, the NetAgent *.reg file is adapted on your computer. If a NetAgent version 9.x or older is or was installed on your system, the changed registries become reliably active only after restarting the operating system. Although it is not imperative to perform this step, we recommend restarting the computer in this situation!

4 MariaDB database installation



Update information for MariaDB

Since the publication of UMS version 9.0, the MySQL database management that had been previously used has been replaced by MariaDB.

For existing systems, the installation of MariaDB is therefore urgently advised!

Information on the migration of existing journal data can be found in Section 5. Please note that the steps described there for the migration of old journal data must be carried out **before the installation** of MariaDB!



Update information about UMS version 10.0 and MariaDB

If you update an existing UMS to version 10.0 and do not reinstall MariaDB, please observe the information in Section 6.

The MariaDB database management system (see [3]) provides the underlying database for the UMS and journal servers of the UMS. MariaDB must be installed on all hardware nodes on which a runtime UMS Server is running.

4.1 Installation medium

When installing the «mariadb-x.x.xx-winx64.msi» software packet and various script command files (*.cmd). The software must be installed on all the hardware nodes that have a runtime UMS server.

When installing the Netagent, the file "mariadb -x.x.xx-winx64.msi" is copied into the directory of the "UMS Netagent" ("[installation folder Netagent]\installer\mariadb\Install", for example: "C:\UMS\netagent\installer\mariadb\Install").

4.2 Installation procedure



MariaDB installation

In the directory "UMS Netagent" there are several installation scripts that have to be carried out in sequence. This is described in more detail in the following sections.

The installation consists of 2 steps. In the first step the MariaDB database is installed; the second step prepares for the UMS.

4.2.1 Step 1: MariaDB database installation:

- Change to the directory "[NetAgent installation directory]\installer\mariadb".
- Execute the script file "1_ums_mariadb_install.cmd" as administrator.

After starting the installation, the "ReadMe" file shown in Figure 11 is displayed.

If the operating system displays a message that the file is blocked, declare it as safe so that it can be displayed.

MariaDB 10.11.2 Installation

Please start the following scripts:

01_ums_mariadb_install.cmd (run as administrator)

- Starts the mariadb msi installer.
- Installs the mariadb windows-service.
- Prompts for database root password and sets it.

02_ums_mariadb_init.cmd

- Creates the users backendUser and journalUser and assigns «dummy» passwords.
- Creates databases uls_backend and uls_journal.
- Starts the HeidiSQL Application

Now you must modify backendUser and journalUser passwords.

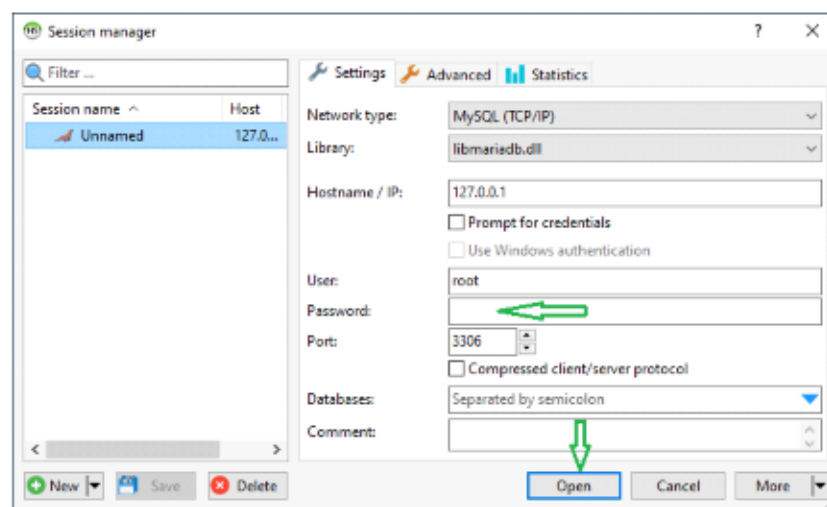


Figure 12: “ReadMe.rtf” file for MariaDB installation

During the installation, a “root” account is created in the database and a corresponding password must be defined for it via console entry.

```
C:\Windows\System32\cmd.exe

C:\Windows\system32>echo off
Installing MariaDB 10.11.2
=====

Opening Documentation
=====
Please copy the msi installer into the directory:
C:\UMS\netagent\Installer\mariadb\Install
Press any key to continue . . .
Starting MSI-Installer for MariaDB 10.11.2
=====

Setting Root-Password for MariaDB 10.11.2
=====

Please enter password for database root: _
```

Figure 13: Password allocation when installing the MariaDB database

This password is used again in the 2nd step of this installation. **The password must be securely stored and available at all times should Support request it.**



Notice

MariaDB supports special characters. For enhanced security, passwords can use them later. Note that when the scripts are executed for installation, Init and Clean for root account a "simple" password must be set (without special characters). Otherwise the installation, Init and Clean cannot be performed. After correct installation, a complex password can/must be entered for root via HeidiSQL.

4.2.2 Step 2: Preparation for UMS

Execute the file "2_ums_mariadb_init.cmd". When prompted, enter the previously allocated root password and confirm by pressing the Enter key.

```

C:\> Select C:\Windows\system32\cmd.exe

Preparing:
=====
Creating database schemas: ["uls_backend"; "uls_journal"]
Creating users: ["backendUser"; "journalUser"]

Please provide root-password for initialisation:
Enter password: 
  
```

Figure 14: Entry of the root password

The database client (HeidiSQL) is automatically started. Select a new session ("New" button), enter the root password and press the "Open" button. Please note: Do not perform this command as Administrator, since then the installation cannot be successfully performed.

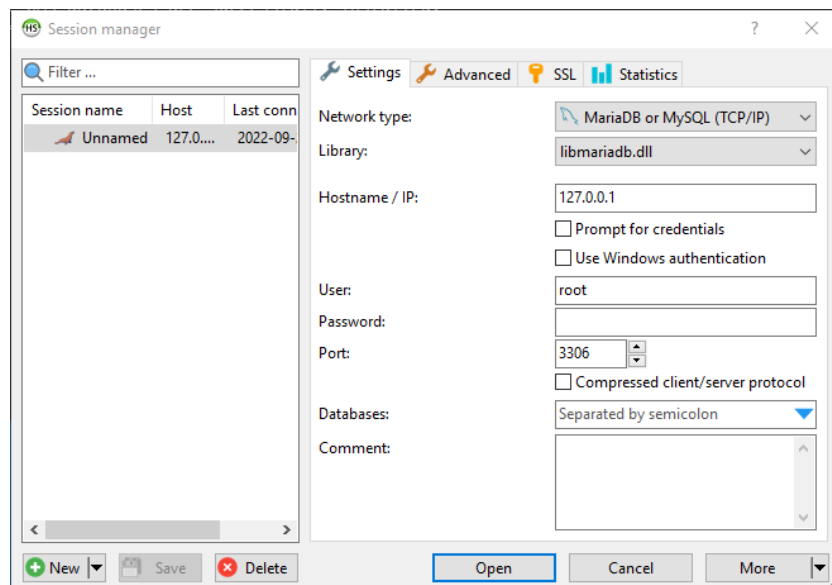


Figure 15: Database client (HeidiSQL)

For backend and journal users, the passwords still have to be entered in the database client (HeidiSQL). These must match those from Section 3.2.6.

Go to "Tools/User Manager" or select the corresponding icon.

MariaDB database installation

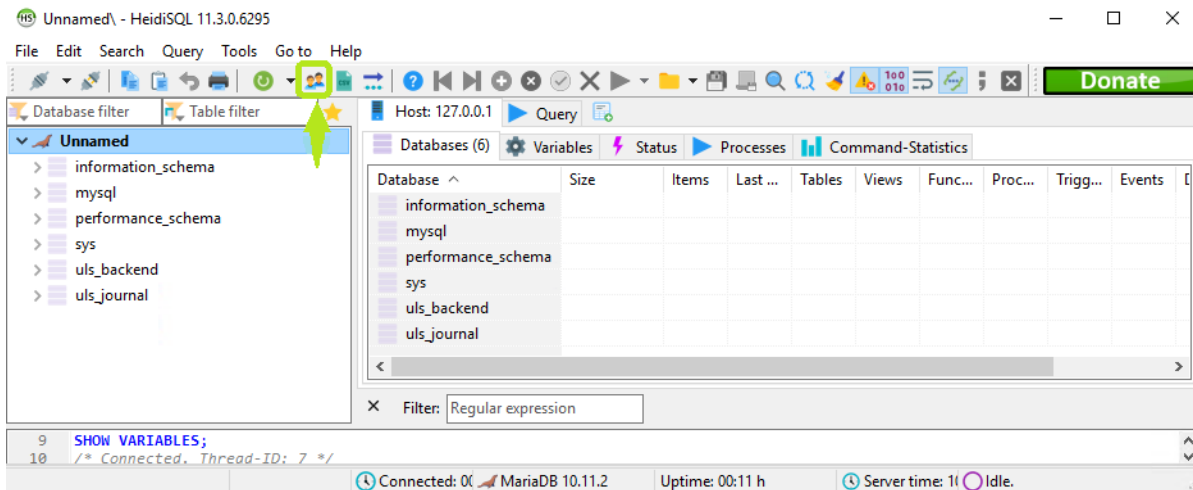


Figure 16: Selection of access data and managing rights

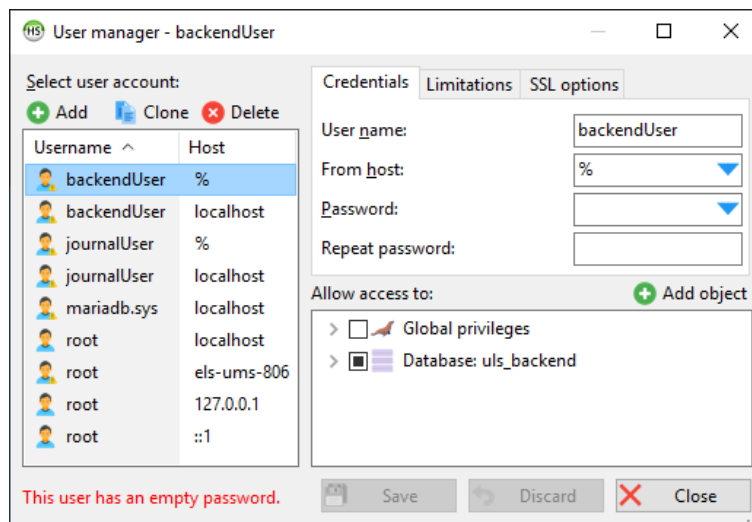


Figure 17: Password entry for backend and journal users

Close "HeidiSQL" and confirm the completion in the console input.

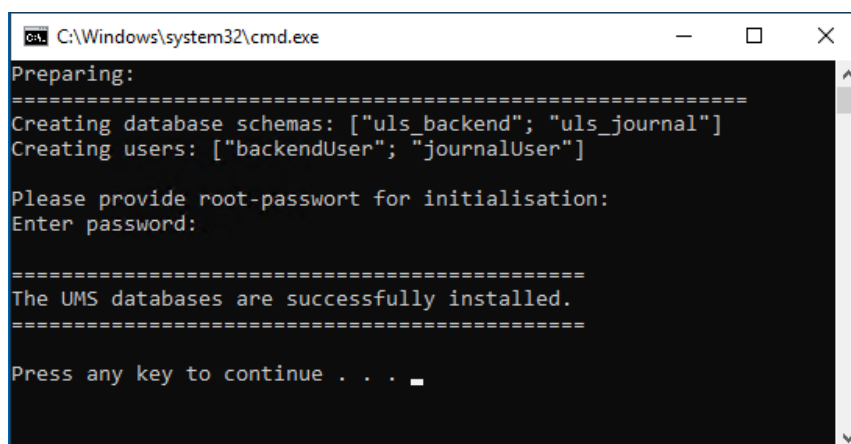


Figure 18: Finalise input

If the installation steps have been successfully performed, the MariaDB database is ready for use with UMS. Now the UMS NetAgent can be started.



Notice

If you want to undo the UMS preparation of the database carried out in step 2 (without uninstalling the database), use the file **"3_ums_mariadb_clear-init.cmd"**. Execute the script file and follow the instructions.

4.2.3 Step 3 (optional): Additional restrictions to access options

With the previously made settings, backend and journal users can reach the run time database via all network interfaces of the node and can thus be reached from any network (including external networks). If this poses a security risk, the access rights for users can be restricted to the necessary interfaces.

These settings can be made with on-board instruments (editor, HeidiSQL).

1. **The security of MariaDB access can be increased by connecting the MariaDB server to a network interface.**

Using an editor, entries are made in "my.ini" or "my.cnf":

```
[mysqld]
bind-address = <IP>
```

2. **Access to the database via certain network segments or IP addresses only**

Access to the database is further restricted for backend users and journal users.

The permitted paths are set via "HeidiSQL". The desired settings are entered instead of «Access from everywhere»:

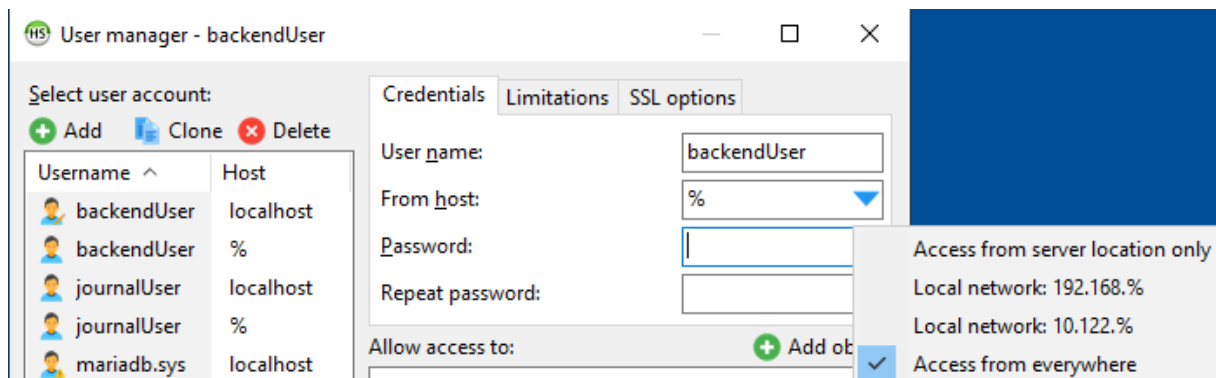


Figure 19: Additional access restrictions via HeidiSQL

5 Migration of older MySQL data to MariaDB

When updating UMS to version 9.0, we urgently recommend changing from the MySQL database to the MariaDB database! In order to migrate existing data from the journal server to the MariaDB, you must proceed as detailed below **before** installing MariaDB.

5.1 Creating a dump

Create a backup copy of the existing database(s) by entering the following command in a console window:

```
"C:\Program Files\MySQL\MySQL Server 5.6\bin\mysqldump" -user=root -password=RootPasswort  
uls_journal > journal_backup.sql
```

Note that you have to replace «RootPasswort» with your password when you enter the command! After entering the command the file «journal_backup.sql» is created.



Notice

Make sure you check the contents of the created database file («journal_backup.sql»). This file must contain all journaled entries from the UMS server. Please note that this file may be very large for systems that have been running for a prolonged period.

5.2 Deinstalling the existing MySQL database

To uninstall the MySQL database, you must first stop the Windows service «MySQL56» with the «Services» program in Windows. After that, remove the Windows service «MySQL56» by executing the following command in the console as an administrator:

```
sc delete MySQL56
```

Execute the deinstallation program for the existing MySQL database by selecting MySQL under «System control» -> «Uninstall programs».

After this, remove the MySQL directory under «C:\Program Files».

Now install the MariaDB database. More details can be found in Section 4.

5.3 Importing the existing data

To complete the migration, you must import the contents of the old database (see Section 5.1) into MariaDB. Open a console window on the computer where the MariaDB database has been installed. Execute the following command in the directory where your back-up of the old MySQL database is stored:

```
„C:\Program Files\MariaDB 10.1\bin\mysql“ -user=root -password=RootPasswort uls_journal  
<journal_backup.sql
```

This completes the migration and you can now proceed with your UMS configuration.

6 Update information about existing MariaDB installations

If you update an existing UMS to version 10.0 and rely on an existing MariaDB installation, you should pay particular attention to the following update information! If you reinstall MariaDB, you can skip this step.

MariaDB optimises with an internal «QueryOptimizer» database polling. As the number of linked tables in a query increases, the possibilities of how such a query can be processed increases exponentially. In MariaDB's default setting, the Optimizer also needs exponentially more time to determine the optimal strategy.

With the «optimizer_search_depth» system property, the calculation of the execution plan of the QueryOptimizer can be restricted with regard to how far it looks ahead. By default, the value is 62, which means that for all queries in which 62 tables are linked all possible execution paths are evaluated.

A sensible maximum for the property is 7. If the property is set to 0, the optimizer searches for an optimal value (maximum 7), depending on the query. You should manually adjust this value for optimal performance on existing MariaDB installations.

To adjust the «optimizer_search_depth» parameter, proceed as follows:

- Open the «my.ini» file in a text editor.
- The file is located in your database installation, usually «C:\Program Files\MariaDB 10.1\data\».
- In the [mysqld] block enter the parameter `optimizer_search_depth=0` (see Figure 20).
- Save the file.
- Restart the MariaDB database to activate the changes (either via the console or Windows service control).

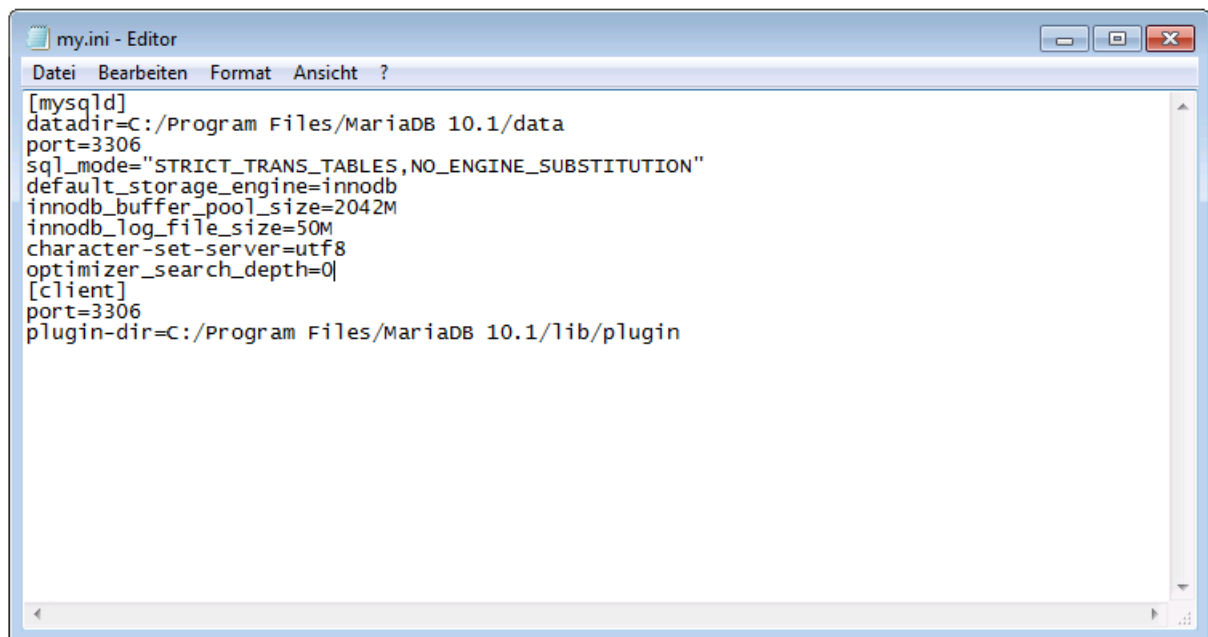


Figure 20: Manual adjustment of the my.ini file

7 How to use a firewall

To guarantee proper and reliable operation of the UMS in conjunction with a firewall, the firewall rules described in the following sections must be observed and configured accordingly.

7.1 UMS nodes – ConfigurationStudio

Incoming connections			
Protocol type	Source port	Destination port	Service
Outgoing connections			
Protocol type	Source port	Destination port	Service
TCP	1024 - 65535	4000	Netagent
TCP	1024- 65535	3306	MariaDB

7.2 UMS nodes – Client

Incoming connections			
Protocol type	Source port	Destination port	Service
TCP	1024 - 65535	4000	Netagent
Outgoing connections			
Protocol type	Source port	Destination port	Service
TCP	1024 - 65535	1703 – 1719*	UMS
TCP	1024 - 65535	1803 – 1819*	UMS configuration server
TCP	1024 - 65535	3306	MariaDB

7.3 UMS nodes – Server

Incoming connections			
Protocol type	Source port	Destination port	Service
TCP	1024 - 65535	4000	Netagent
TCP	1024 - 65535	1703 - 1719	UMS
Outgoing connections			
Protocol type	Source port	Destination port	Service
TCP	1024 - 65535	1703 – 1719*	UMS
TCP	1024 - 65535	1803 – 1819*	UMS configuration server

7.4 UMS nodes – Server (sub-systems)

Incoming connections			
Protocol type	Source-Port	Destination-Port	Service
TCP	1024 - 65535	4000	Netagent
TCP	1024 - 65535	1703 – 1719*	UMS
TCP	1024 - 65535	1720 – 1728*	UMS
Outgoing connections			
Protocol type	Source-Port	Destination-Port	Service
TCP	1024 - 65535	1703 – 1719*	UMS
TCP	1024 - 65535	1720 – 1728*	UMS
TCP	1024 - 65535	1803 – 1819*	UMS configuration server
TCP	1024 - 65535	1820 – 1828*	UMS configuration server

7.5 UMS nodes – Configuration server

Incoming connections			
Protocol type	Source-Port	Destination-Port	Service
TCP	1024 - 65535	4000	Netagent
TCP	1024 - 65535	3306	MariaDB
TCP	1024 - 65535	1803 – 1819*	UMS
Outgoing connections			
Protocol type	Source-Port	Destination-Port	Service
TCP	1024 - 65535	1703 – 1719*	UMS
TCP	1024 - 65535	1803 – 1819*	UMS configuration server
TCP	1024 - 65535	1820 – 1828*	UMS configuration server

7.6 YourKit Java Profiler

Incoming connections			
Outgoing connections			
Protocol type	Source port	Destination port	Service
TCP	10001-10010	10001-10010	YourKit Java Profiler



Notice

The ports of the listed services are the default values. You can however reconfigure the port of the UMS service via the configuration studio (physical configuration – UMS server – Network TCP/IP) (see [1]). If the value is changed there, then instead of the set default port range in the table, the newly set port as well as the immediately following 15 ports of the firewall must be enabled in accordance with the port range in the table.



Warning

The described firewall settings refer only to the UMS basic system. Other incoming and outgoing settings or port activations of the UMS server or UMS nodes depend on the connected subsystem. The necessary configuration of the firewall concerning such subsystems must be separately performed!

8 Installation of UMS ConfigurationStudio

The «UMS ConfigurationStudio» is for configuring and planning UMS projects and can be installed on any hardware node (e.g. computer of the technician or of the customer) that meets the system requirements. The «UMS ConfigurationStudio» is only for configuration and need not be available during runtime of the UMS. We recommend operating the UMS ConfigurationStudio in Windows Aero rather than in the classic view. In any case, you should not undertake any changes in the visual effects under Windows while the UMS ConfigurationStudio is running; unexpected display problems could occur.

8.1 Installation medium

To install the UMS ConfigurationStudio, you need the «Setup_UMSConfigurationStudio.exe» installation packet.

8.2 Installation procedure

Copy the installation medium to the desired hardware and execute the installation program by double-clicking it. The following screen then appears:

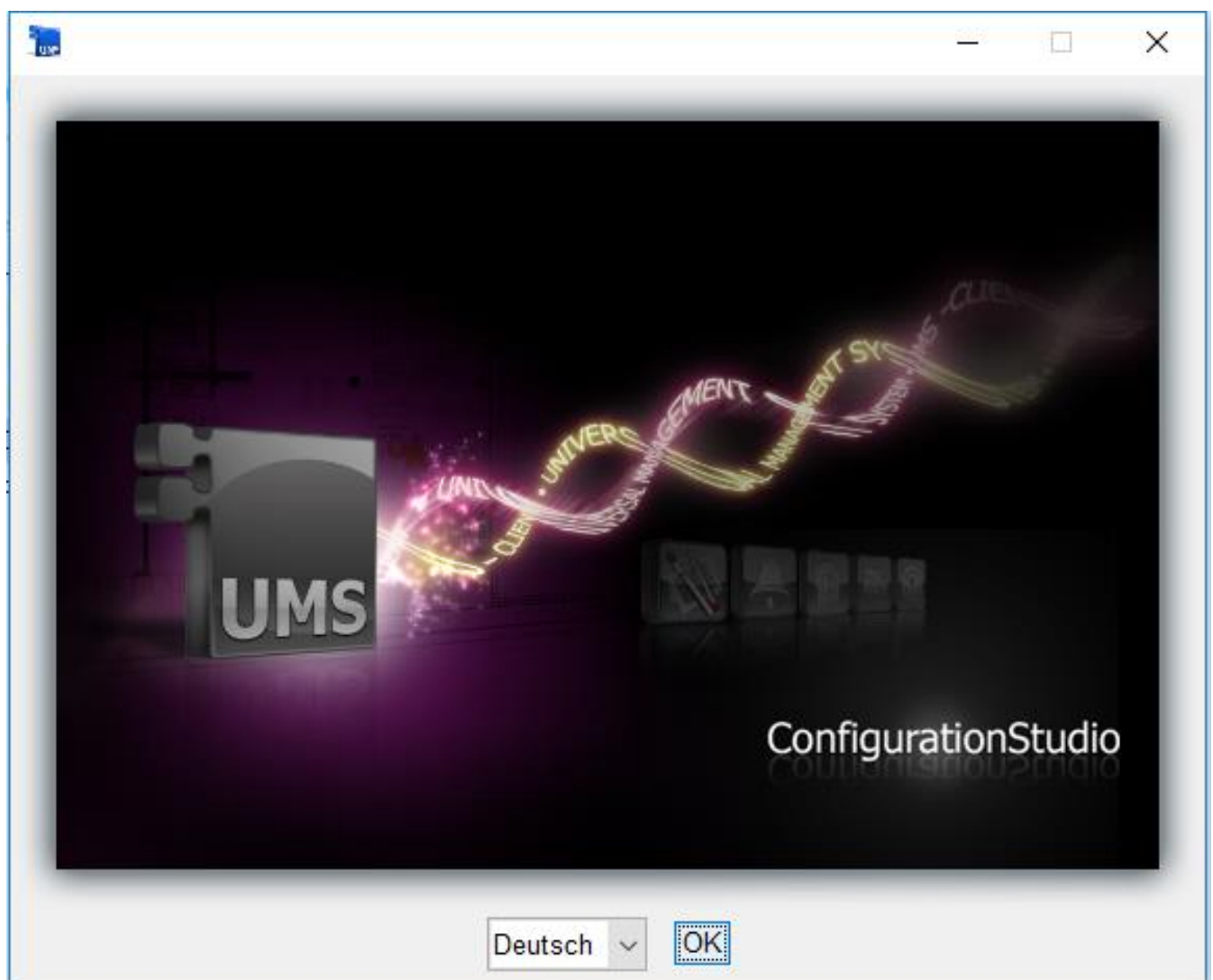


Figure 21: UMS ConfigurationStudio setup: language selection

Select the language you want to use from the selection list and continue by clicking «OK». The installation process begins with the following screen:

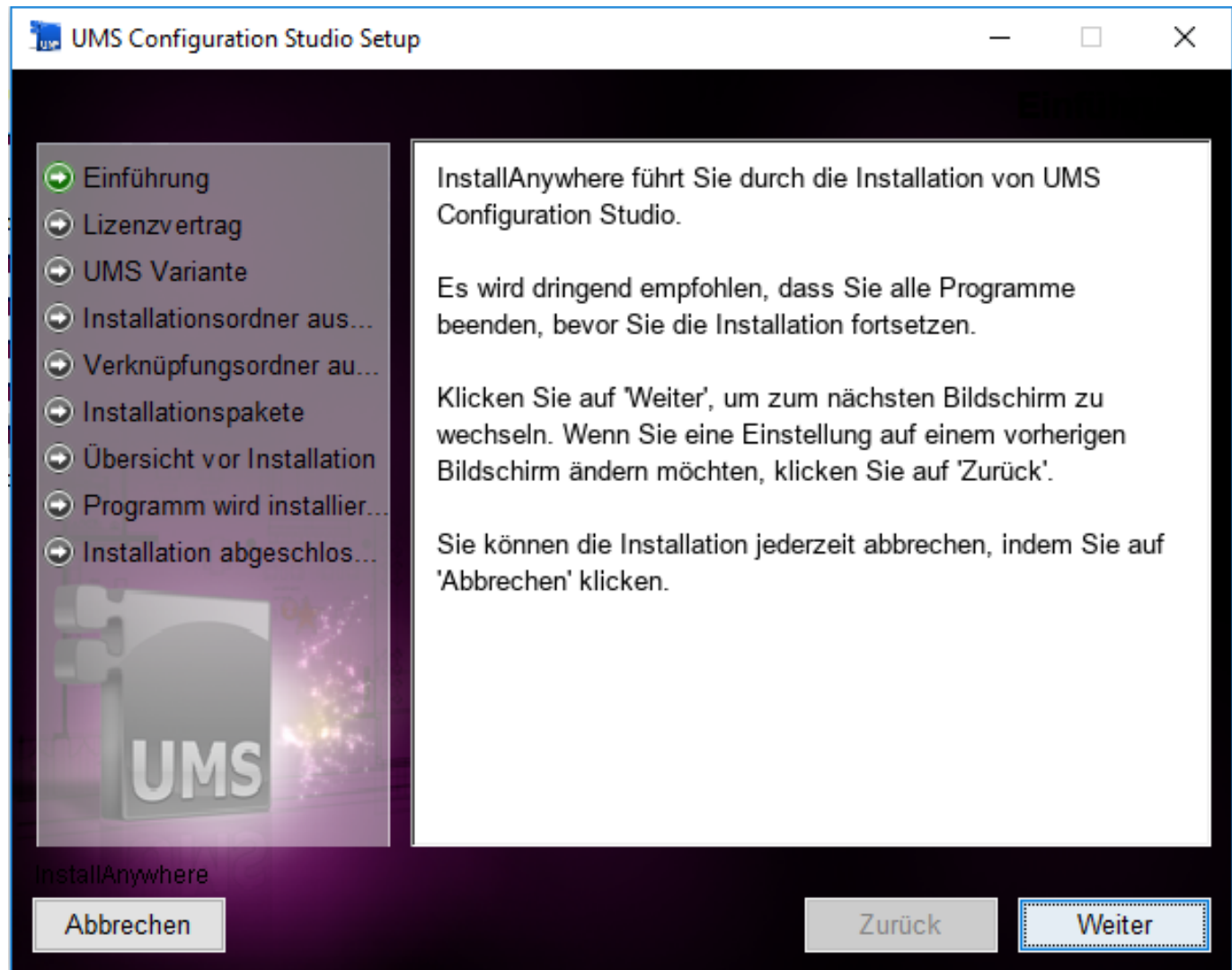


Figure 22: UMS ConfigurationStudio Setup: introduction

The figure above lists all installation steps that have to be performed. Some of the self-explanatory installation steps are not discussed in the following.

8.2.1 Step: Licence agreement

First the licence agreement is displayed. To be able to install and use the UMS, you must accept the licence conditions. Read the entire licence agreement and confirm.

8.2.2 Step: UMS version

In this step, the installation of either the European or Asian version of the UMS is selected.

8.2.3 Step: Installation directory

In this step you define the target path where the installation is stored. The default path «C:\UMS\studio».

8.2.4 Step: Link directory

It is advisable to have the program icon created «On the desktop». The program icon «Start UMS ConfigurationStudio» will be created there and UMS ConfigurationStudio can be launched with it.

8.2.5 Step: Installation packets

Here you define the optional installable packets by ticking or unticking the selection box. You can call up further information about the individual packets by clicking the Info button (to the right of the concerned packet).

When the installation is successfully completed, you can close the dialogue with the “Finish” button.

This completes the installation and the UMS is ready to be configured.



Notice

Please note that starting UMS ConfigurationStudio may not be possible immediately after clicking the “Finish” button because the installer is still active in the background. Wait about 10 seconds after clicking the “Finish” button before starting Studio.

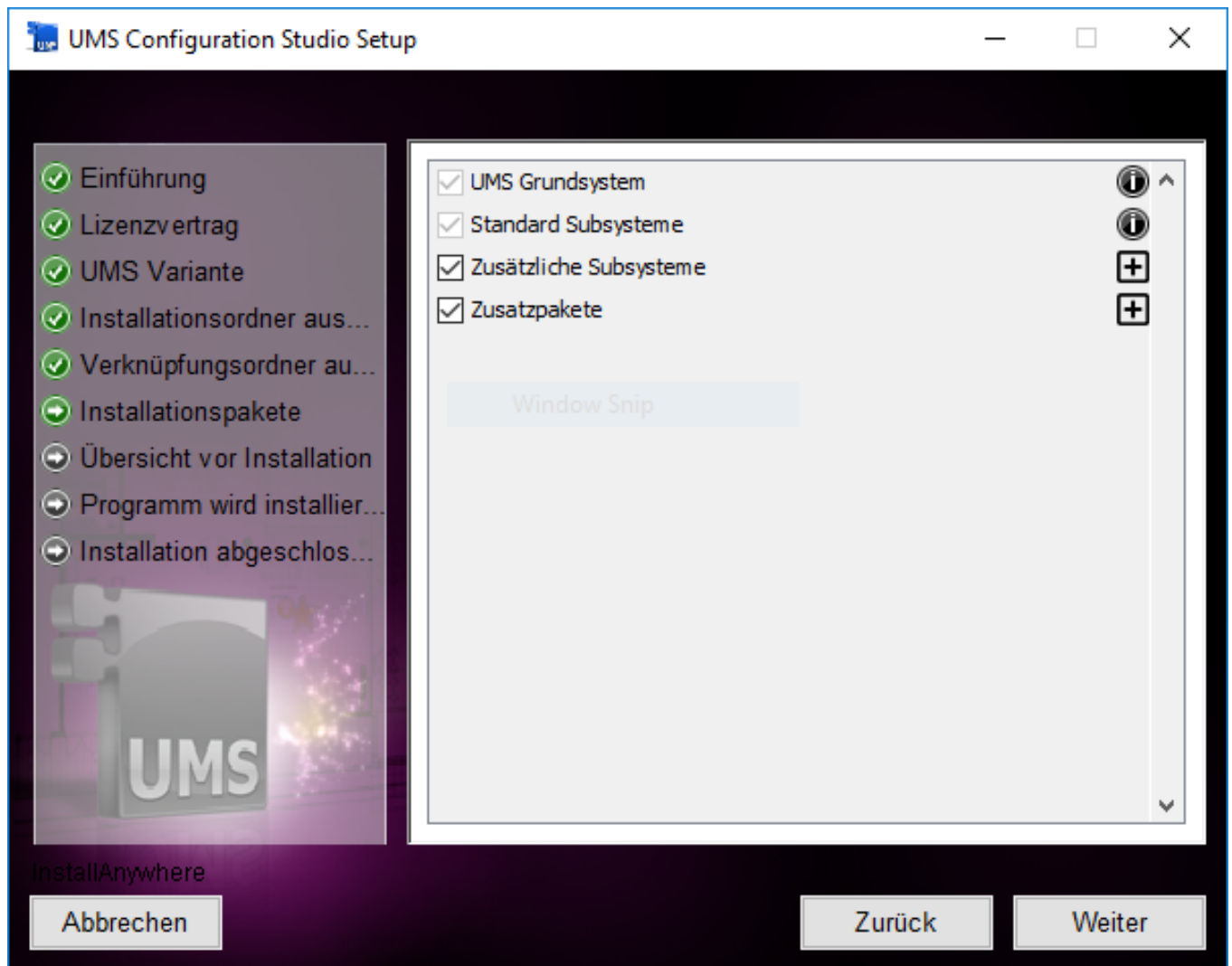


Figure 23: UMS ConfigurationStudio Setup: Installation packets

8.3 Starting under Windows server 2012 / Windows server 2016 / Windows server 2019 servers

For ConfigurationStudio to start properly with this operating system, you have to use the “Run as administrator” link in the context menu.

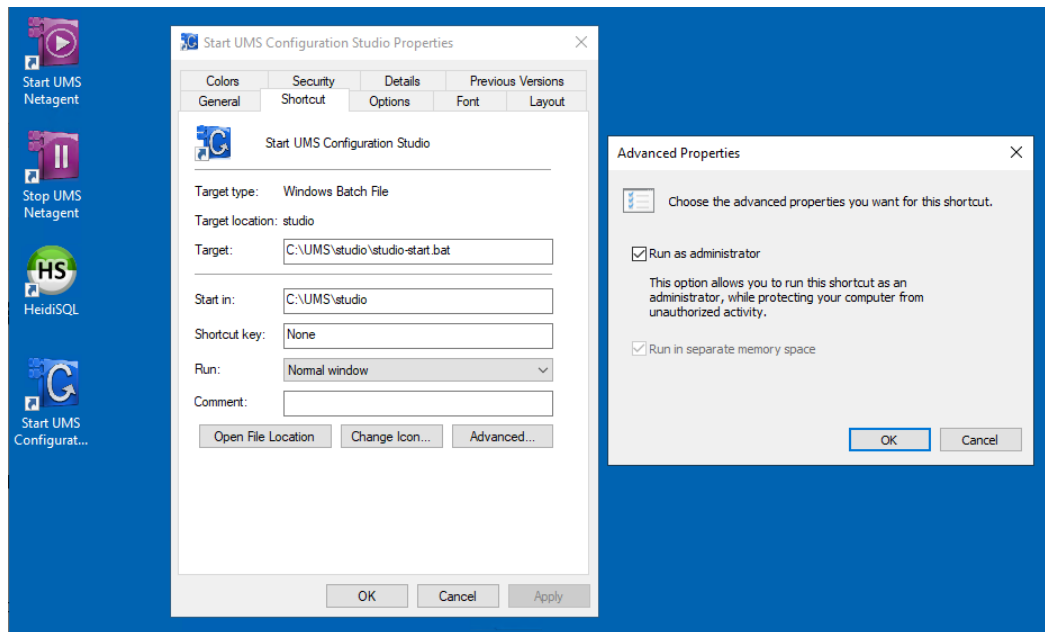


Figure 24: "Run as administrator" option

9 Installation of the UMS Journal Reporting Tool

The «UMS Journal Reporting Tool 2» is for offline analysis and processing of complex UMS journal data. A direct connection to the runtime system is not required.

9.1 Installation medium

The installation medium «Setup_UMS_JournalReportingTool2.exe» is used for installing the «UMS Journal Report Tool 2».

9.2 Execute setup

Start the installation by double-clicking the installation program.

- Setup_UMS_JournalReporting.exe

A window opens showing the startup preparation process:

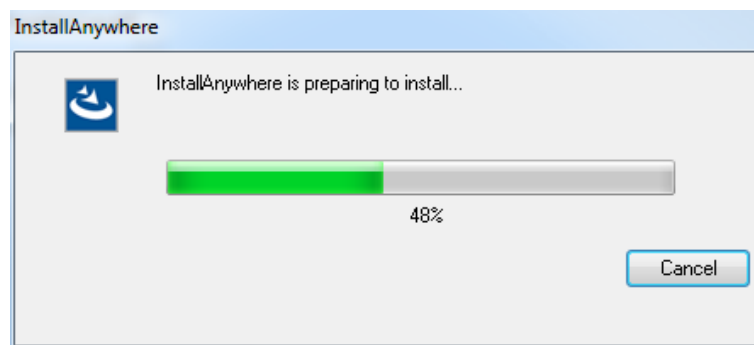


Figure 25: Preparation process of the installation files

As soon as this procedure has been successfully completed, another window appears in which you can select the desired installation language:



Figure 26: Language selection of the installation

Installation of the UMS Journal Reporting Tool

Select the desired language version for the installation process from the selection list shown. Confirm your selection by clicking the «OK» button.

Follow the instructions on the screen and select the desired options in the installation steps that follow. Confirm your entries by clicking «Continue».

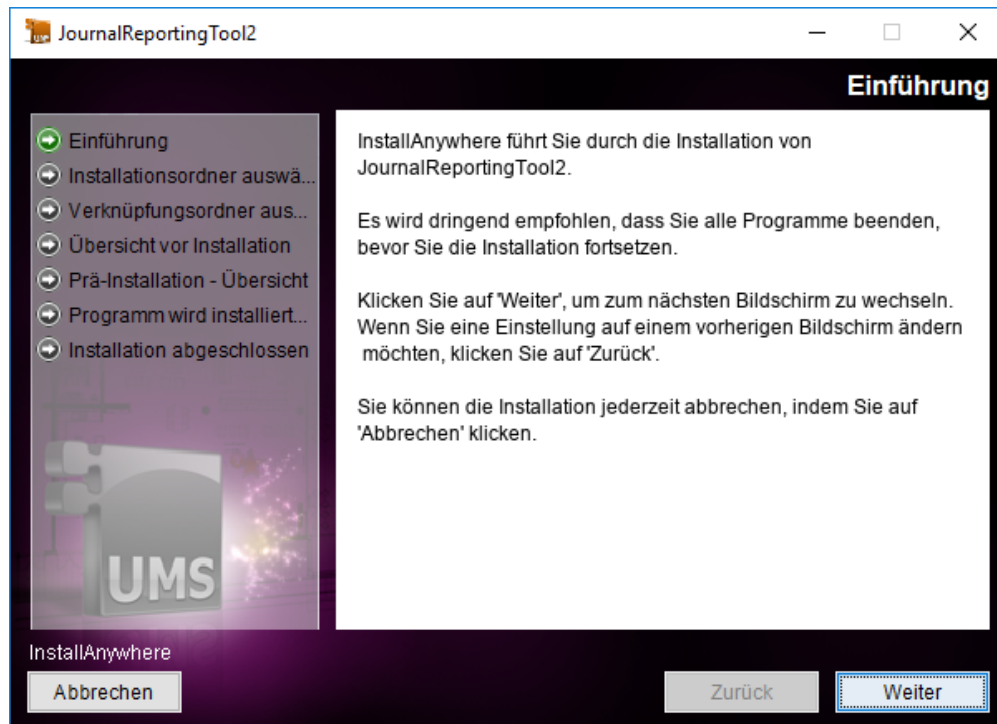


Figure 27: Introduction

Confirm the license agreement.

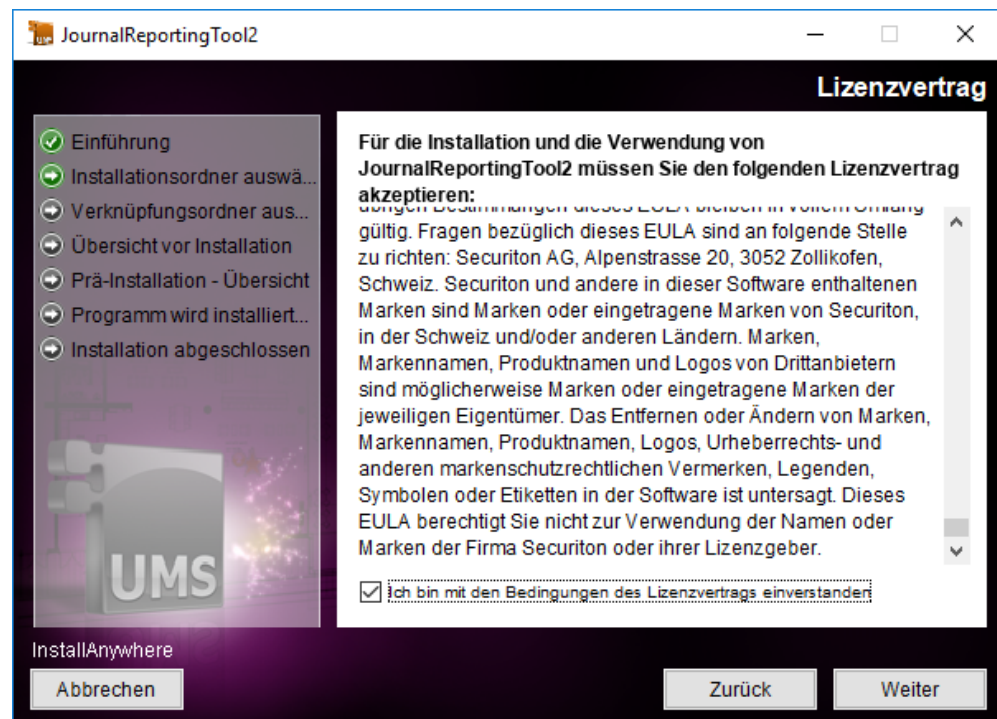


Figure 28: Confirm the licence agreement

Select the required UMS version depending on the installed UMS version. Asia for projects and journal entries with Asian characters. Europe for all other project languages.

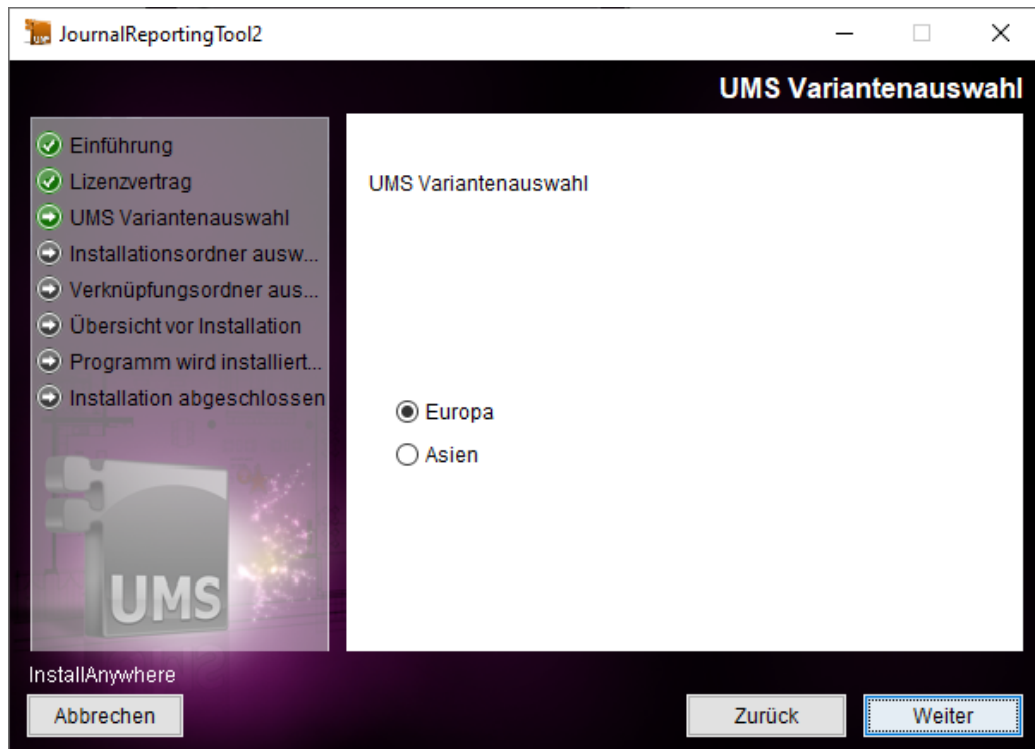


Figure 29: Selection of the UMS version

Define in which directory the JRT2 application should be installed.

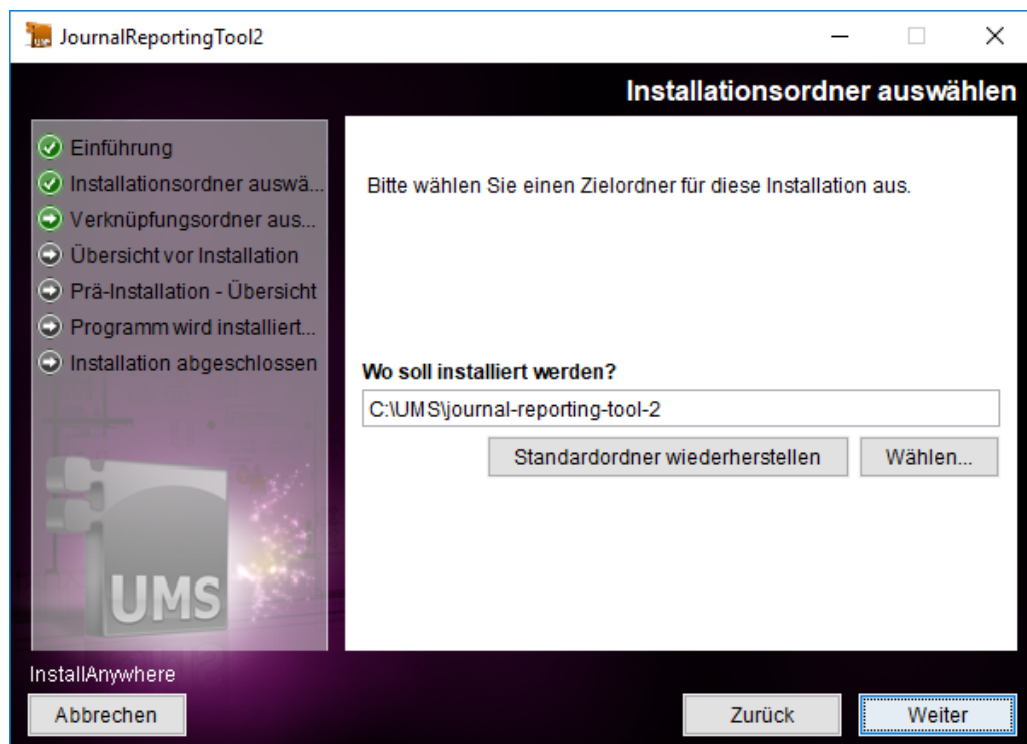


Figure 30: Location of the installation

Installation of the UMS Journal Reporting Tool

Enter how the application can be called up.

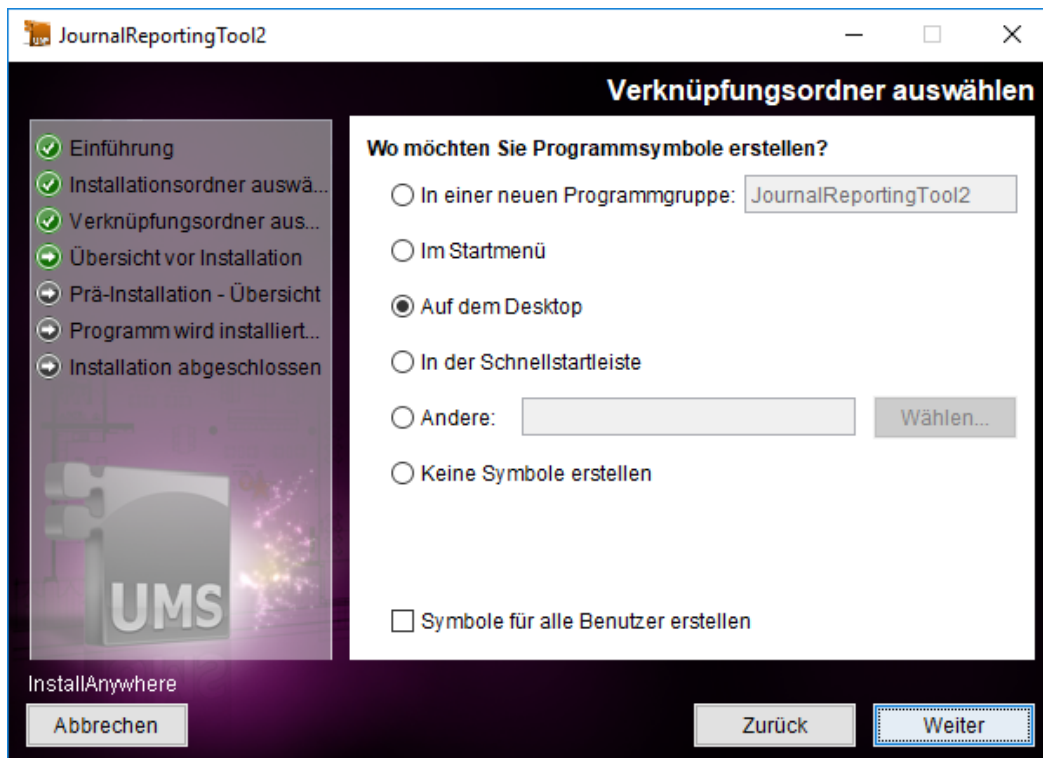


Figure 31: Creating shortcuts

A summary of your entries is shown.

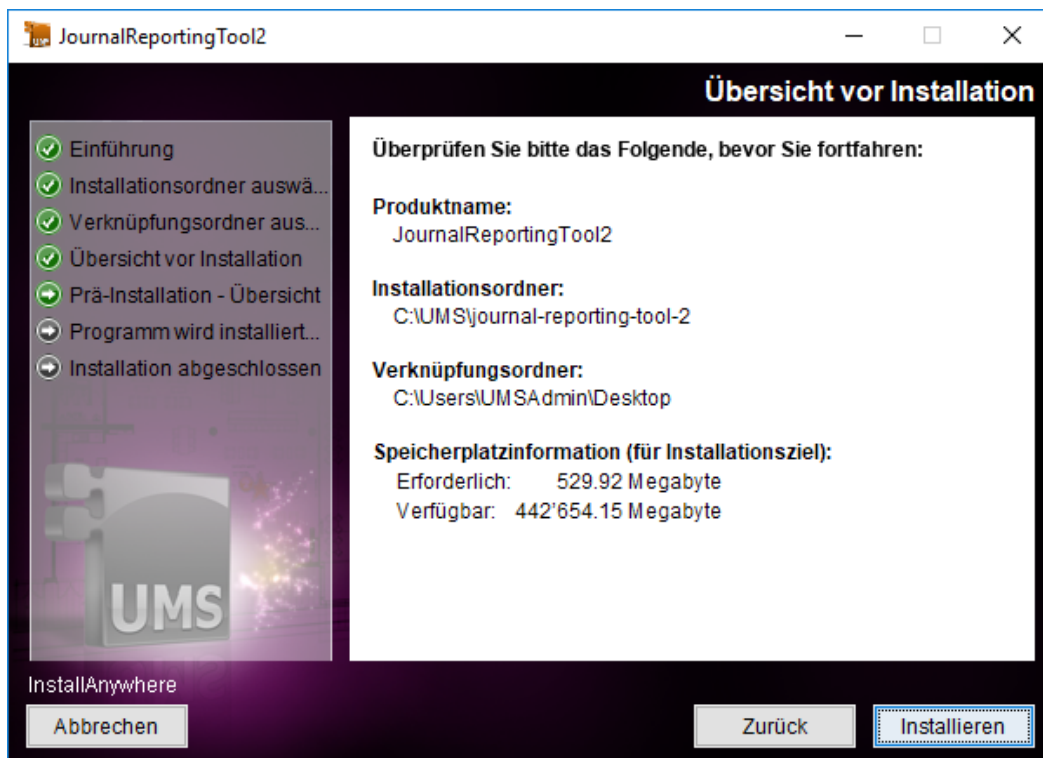


Figure 32: Summary of the installation options

In the last window the successful installation should be displayed. Click the «Finish» button to complete the installation.

10 Uninstalling the UMS

Prior to uninstalling the UMS, you must ensure that all UMS applications have been closed and all services have been stopped. Afterwards, you can continue as described below.

Using the Windows uninstall program, remove the following programs:

1. UMS ConfigurationStudio
2. UMS Netagent setup

After execution, the relevant uninstaller is called up. Self-explanatory uninstall steps are carried out.

MariaDB can be uninstalled with the installer «mariadb-xx.x.x-winx64.msi» in the installation folder of the Netagent (*..installer\mariadb\Install*). Execute the installer and choose the relevant option («Remove»):

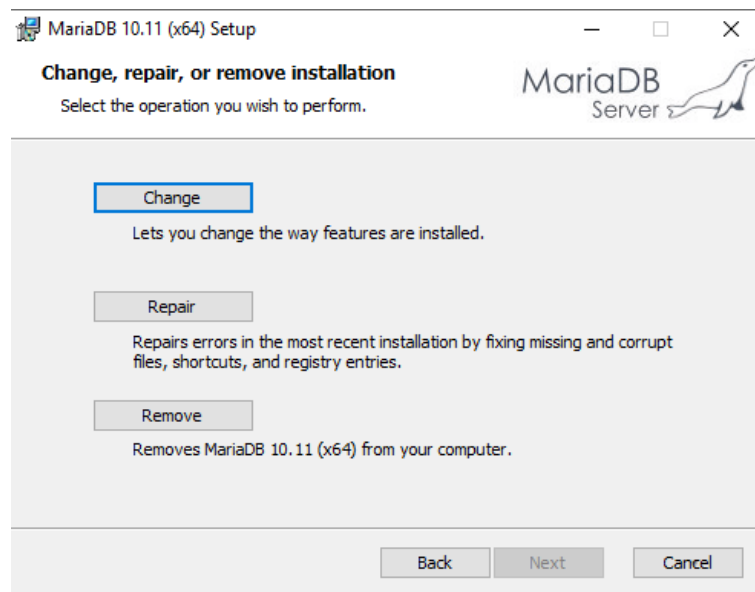


Figure 33: Deinstallation of MariaDB

After deinstallation you have to manually remove the remaining directories.

UMS: For example: "C:\UMS*.*)"

MySQL: For example: "C:\Programs\MariaDB 10.11*.*)"

Please note that the directory to be deleted is in the English version under:

"C:\Program Files\ MariaDB 10.11\".



Warning

Before manually deleting the directories, all project-specific data created for the customer has to be backed up. This data is created when configuring with UMS Configuration Studio and individually saved. Always make a backup copy of this data.

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