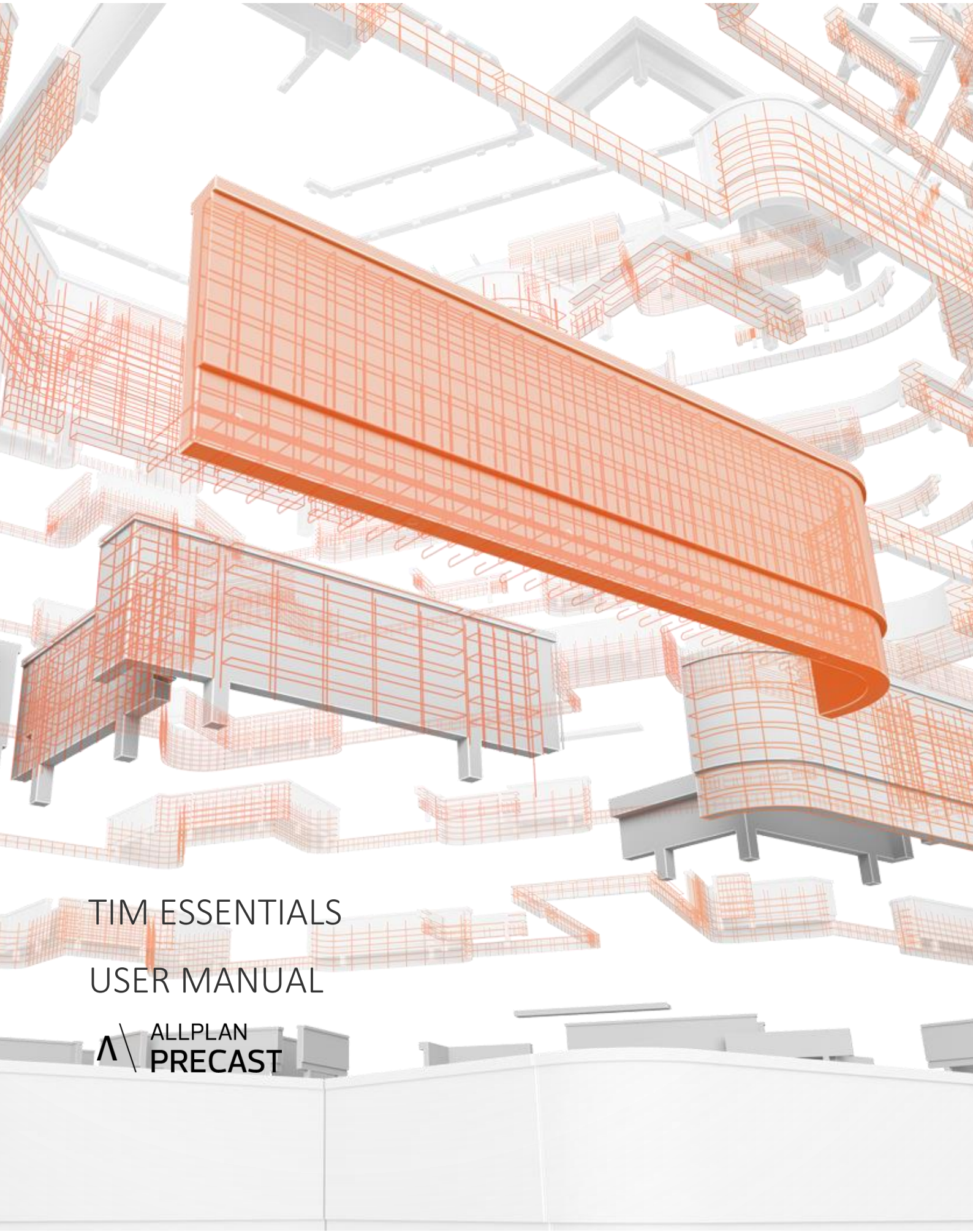
ALLPLAN
A NEMETSCHEK COMPANY



TIM ESSENTIALS

USER MANUAL

ALLPLAN
PRECAST

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Revision directory

Version	Date	Author	Note/Explanation
1.0	24.01.2022	A. Strobl	Translation and Screenshots in English

1 WELCOME

Complex construction projects require new planning methods.

With **Tim Essentials** (Technical Information & Integration Manager), we provide you with a software solution that allows you to map the planning and information area easily and compactly in your precast company.

Tim Essentials Features:

- Import data from PLANBAR (NTF files) - optionally also UNICAM
- Visualizing model in 3D
- Managing layouts and drawings
- Create reports
- Process technology

2 SYSTEM REQUIREMENTS

NOTICE:
Tim Essentials is designed exclusively for a single-user installation on a workstation.

2.1 Main memory / Processor

- At least 8 GB

2.2 Operating system

- Microsoft Windows 10, 64 bit

2.3 Graphic card

- The graphic card must support DirectX 11 (or higher). A separate graphics card (at least 2 GB of graphics card memory) is recommended.

2.4 SQL versions

Tim Essentials is released for the following SQL versions:

- Microsoft® SQL Server® 2017 Express (German and English)
- Microsoft® SQL Server® 2019 Express (German and English)

Compliance with the minimum system requirements issued by Microsoft® for the corresponding software products is assumed.

2.5 Hard disk requirements

Please note that Microsoft® SQL Server® **Express** is **limited to** a maximum database size of **10 GB.**

Disk requirements depend on the number of projects, the complexity of the elements, and the number of plans. In general, the following guidelines apply:

- approx. 0.5 MB per ceiling or wall element
- approx. 1.0 MB per structural precast element
- approx. 1.0 MB per element plan

3 PREPARATION

3.1 Download Tim Essentials

You have received a mail from us regarding license activation. Here you will also find a description for the download.
Or you can log directly into our SelfServicePortal https://precast.topdesk.net/, where you will find the latest Tim version under Software/Download.

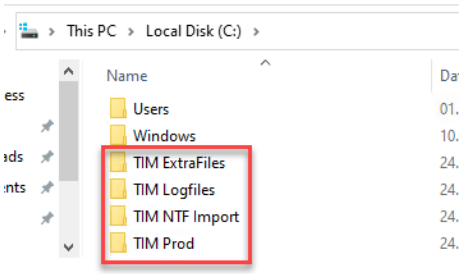
> **NOTICE:**
> If you do not yet have access to the service portal, please send an email to our Customer Excellence Services Team: support.precast@allplan.com

Unzip the downloaded file to a folder of your choice.

3.2 Create required folders

Please create the following folders on your computer:

- Tim Extra Files (required in Tim Admin)
- Tim Logfiles (Precast Support)
- Tim NTF Import (storage folder for import files)
- Tim Prod (destination directory for production data - optional)

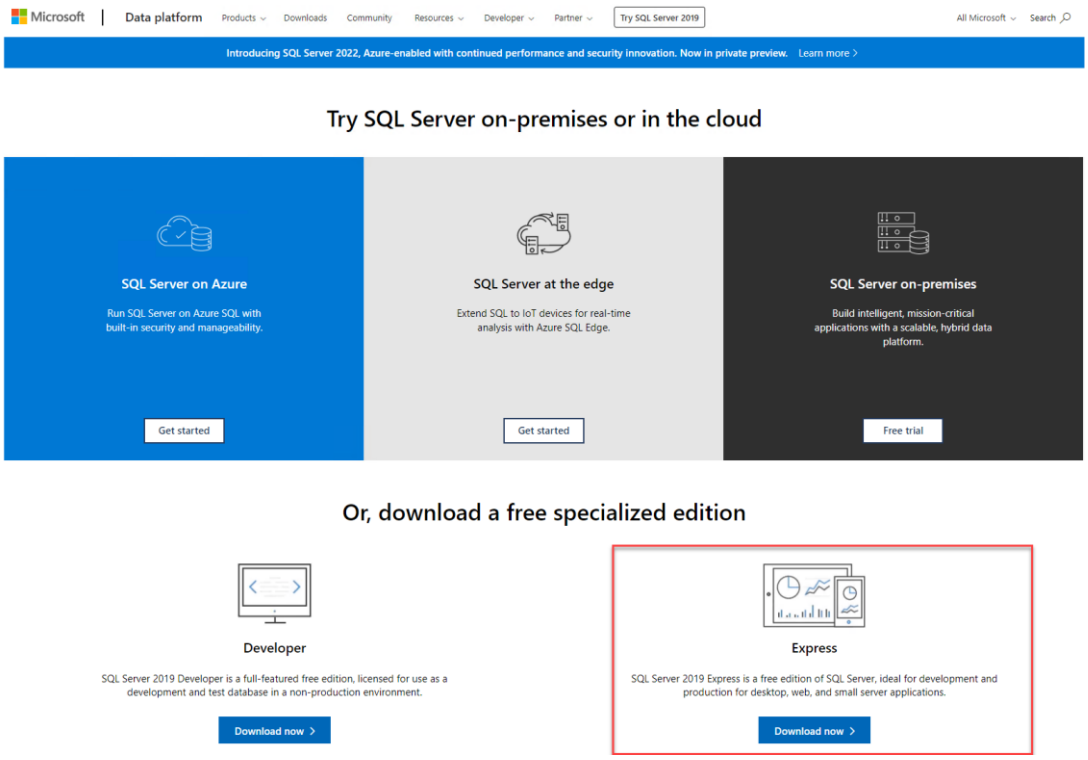


3.3 Download the required Microsoft® software

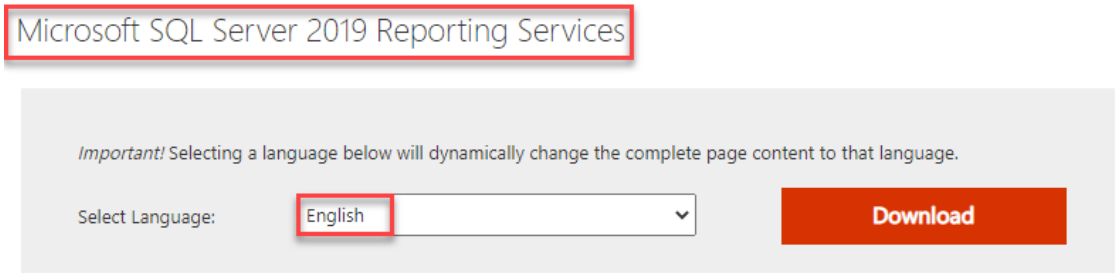
Please download the free programs from the Microsoft® website.

> **Note**
> In our SelfServicePortal you will find a zip file (EN_MS_SQL20xx_Prerequisite_TIM_Essentials) under Software/Download in the Tim section, which contains the required software from Microsoft®. If you use this, you can continue directly with point 3.5.

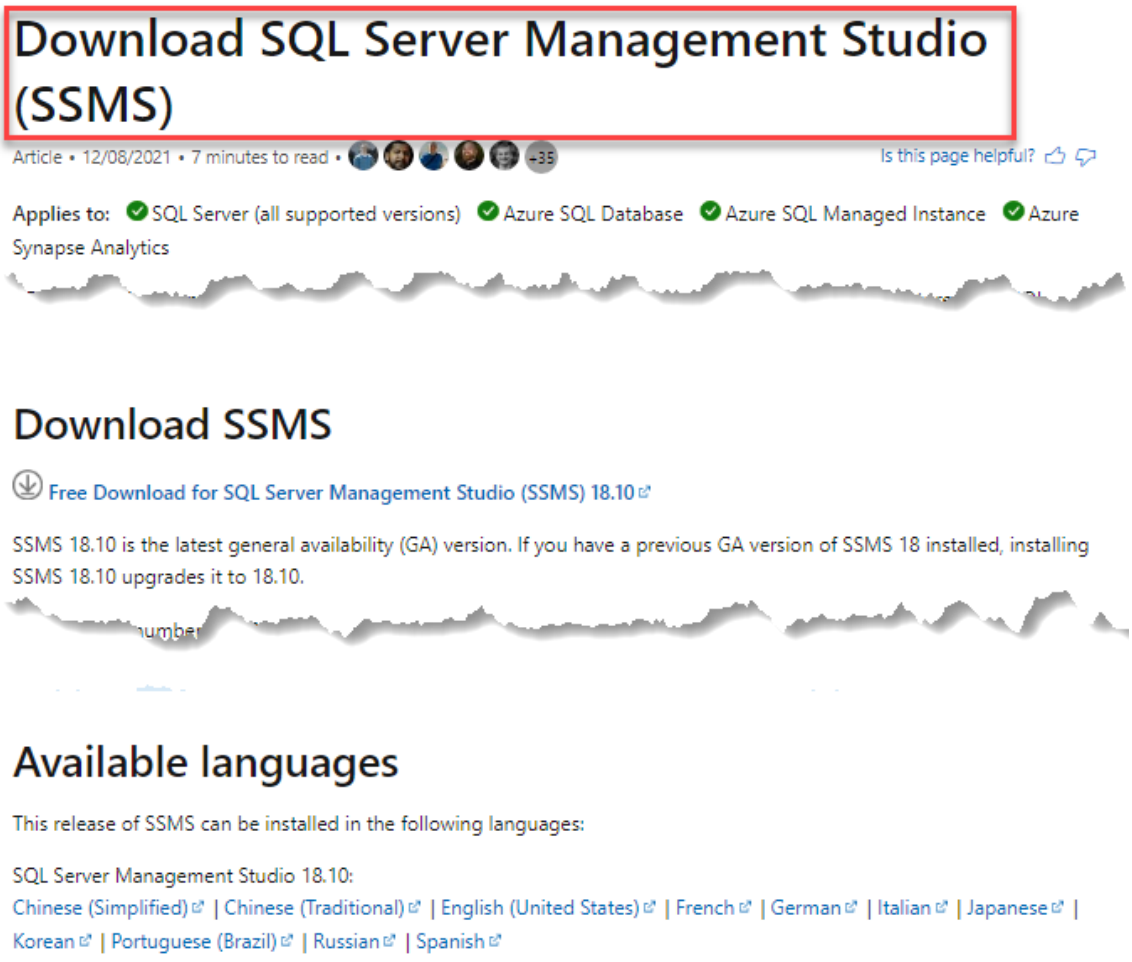
› Microsoft® SQL Server 2019 Express



› Microsoft® Reporting Services



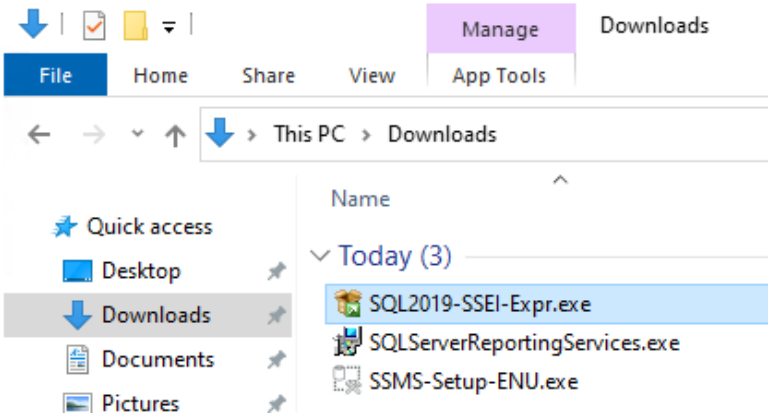
› Microsoft® SQL Server Management Studio (SSMS)



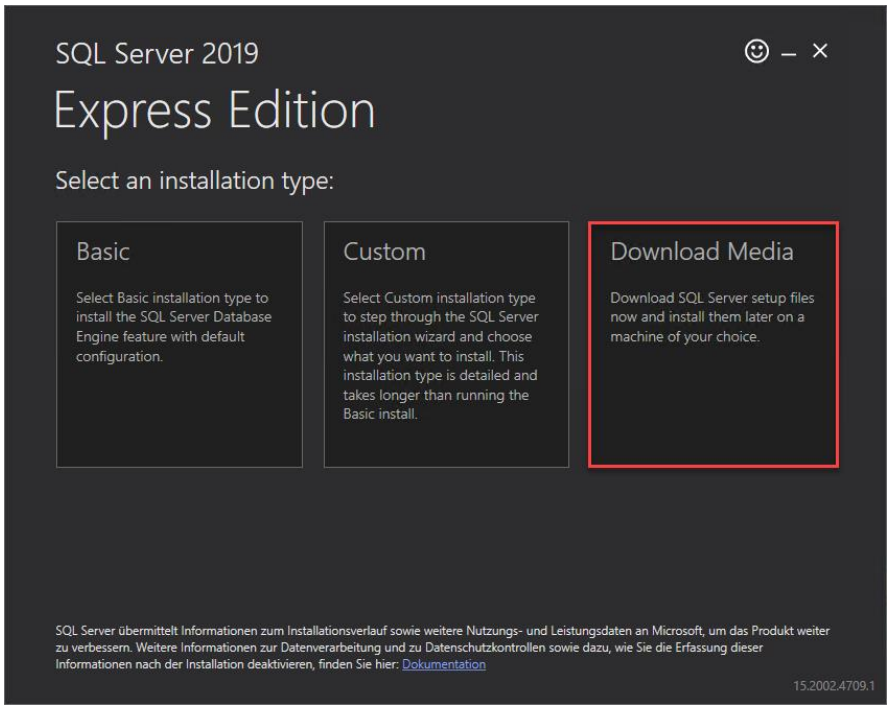
3.4 SQL Server setup file

To be able to carry out the installation without permanent data transfer or Internet connection, we describe the procedure with "Download medium" here

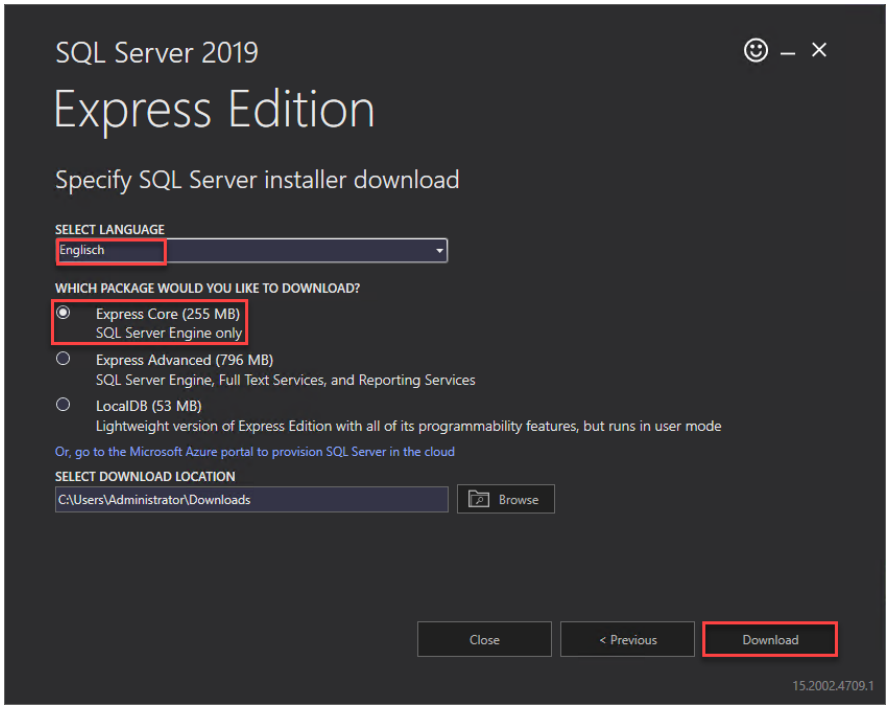
› Calling the corresponding setup.



› In the window that appears, select "Download media".



› If not already preselected, select the first item "Express Core" and start "Download".



› After the download was successfull click Close and finish the process by clicking "Yes".

3.5 Checklist

Please use the following checklist to verify that all required criteria for installation are met:

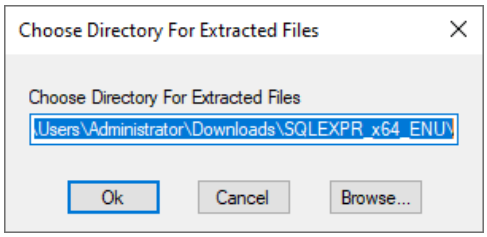
	Description	done
1	Installation media for Microsoft® SQL Server Express	❑
2	Installation media for Microsoft® Reporting Services	❑
3	Installation media for Microsoft® SQL Server Management Studio (SSMS)	❑
4	Installation media for Tim	❑
5	USB dongle (CM stick) or Softlockkey for license management	❑
6	Mail from Allplan Software Engineering for the activation or extension of the Tim licenses.	❑
7	User ID and password of the Windows system administrator or local administrator rights on the installation computer.	❑

4 INSTALLATION

NOTICE:
Administrator rights are required on the computer on which you want to install.

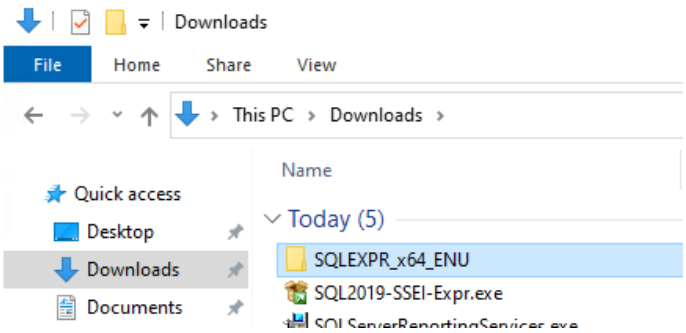
4.1 Microsoft® SQL Server® Express

Open the downloaded installation file (3.1 Download Tim Essentials) by double-clicking and confirm with "OK".



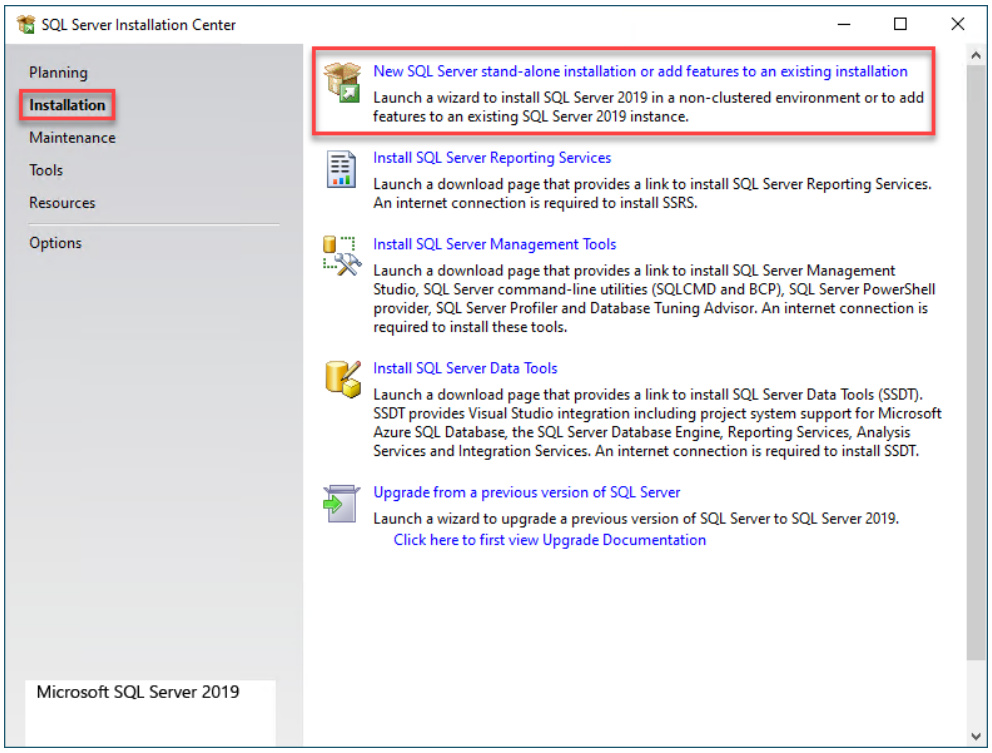
Now you will get to the SQL Server Installation Center.

NOTICE:
If you want to start the SQL Server Installation Center again or if you have downloaded the zip file from our SSP, change to the directory in which the above-mentioned medium was unpacked. Go to the corresponding subdirectory and open the setup here.



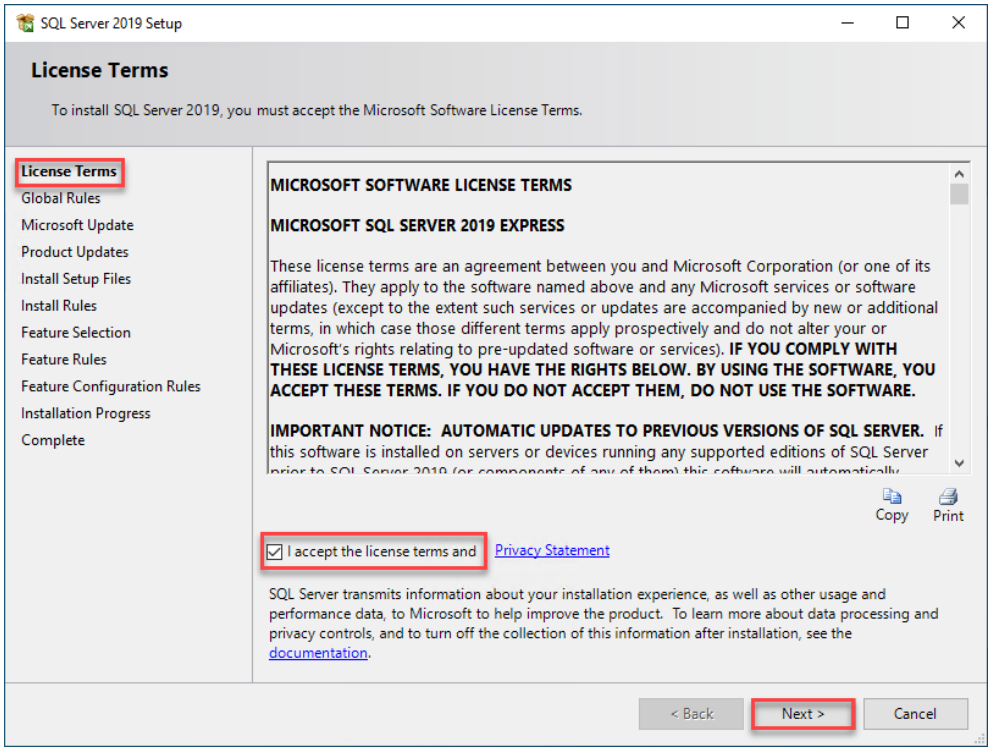
4.1.1 SQL Server Installation Center

Select the first link “New SQL Server stand-alone installation...”.



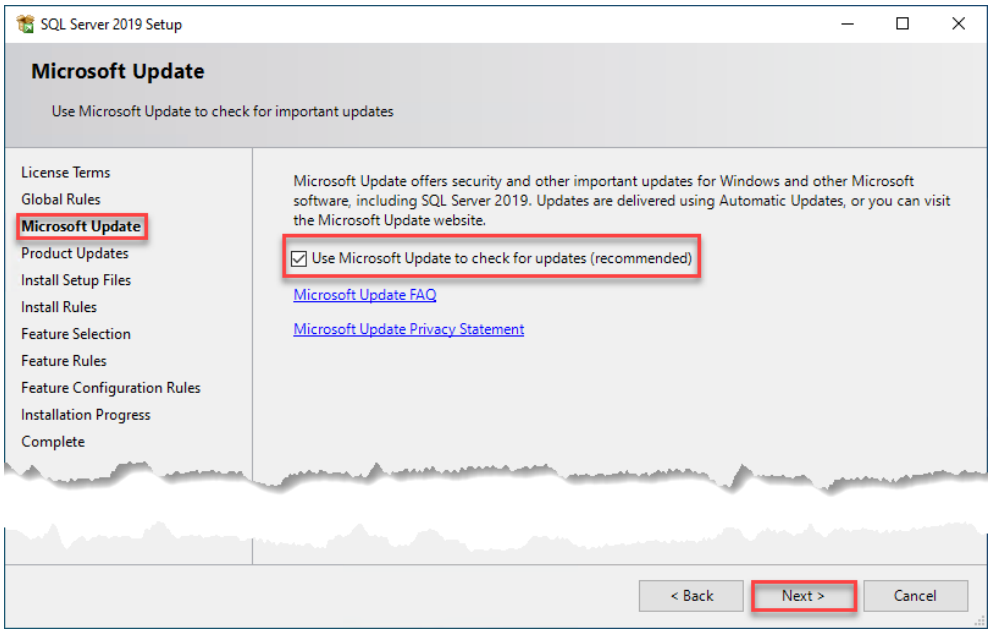
4.1.2 License Terms

Check the “I accept the license terms” box and click “Next”.

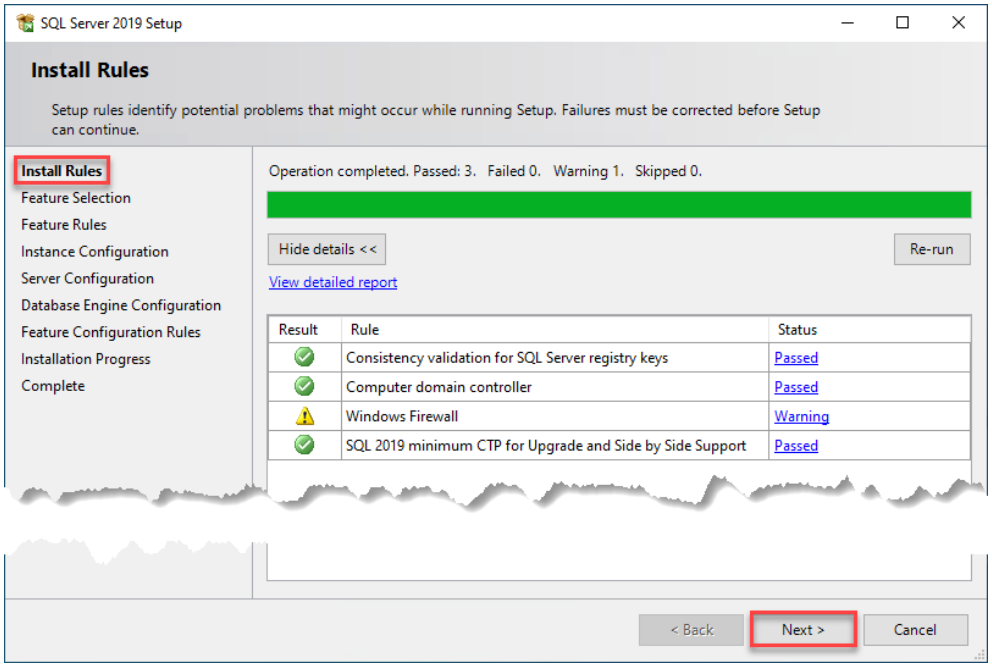


4.1.3 Microsoft update

We recommend checking for updates.

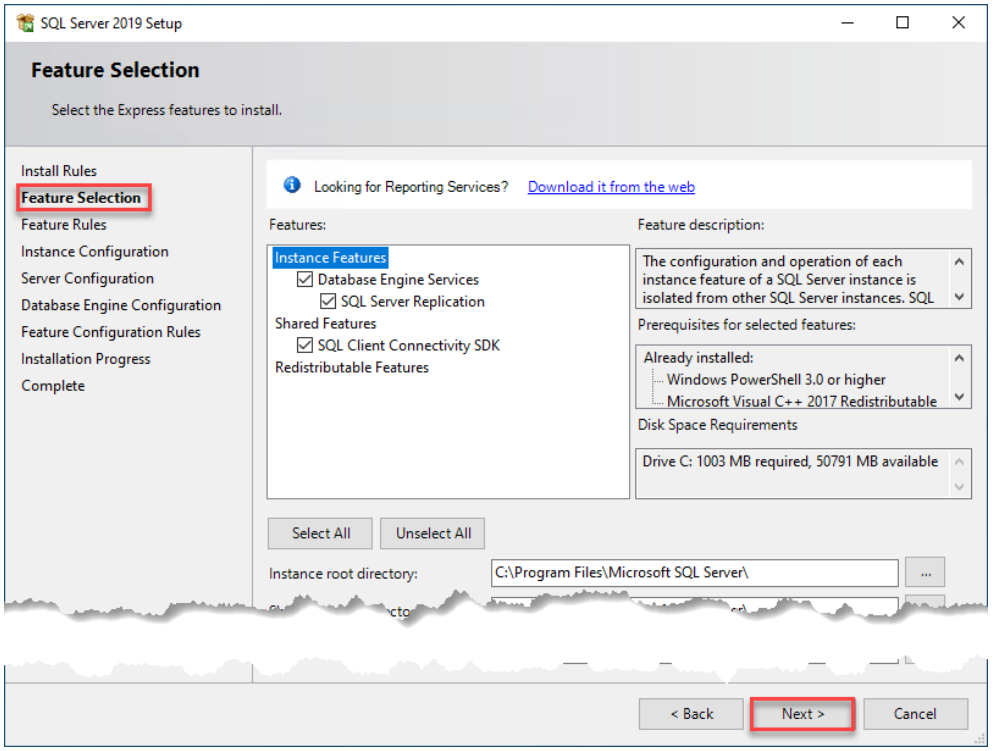


4.1.4 Install Rules



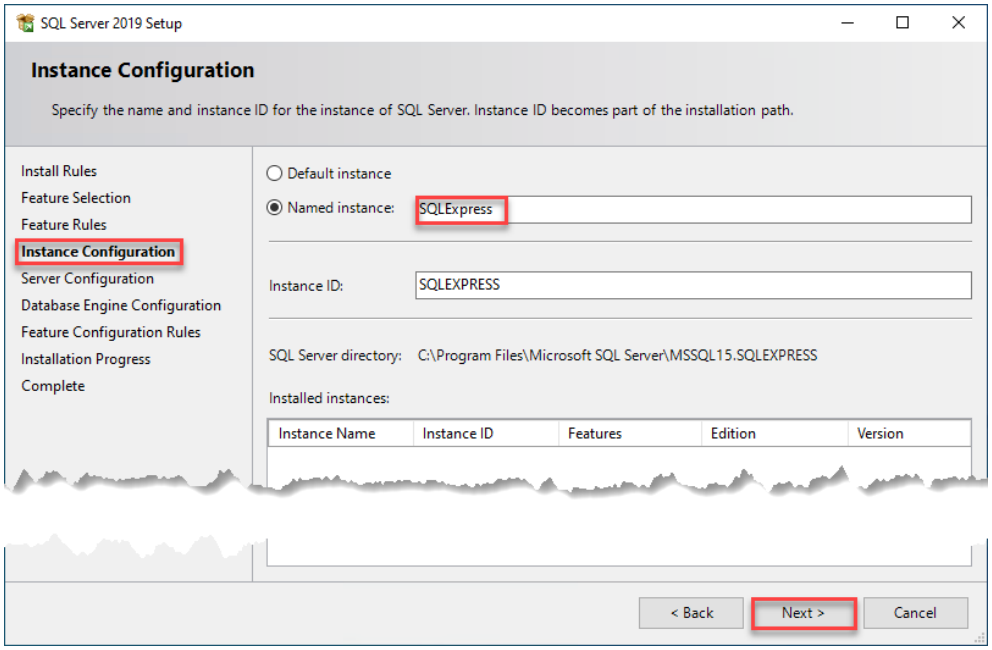
4.1.5 Feature Selection

Leave the settings as they are and confirm with “Next”.



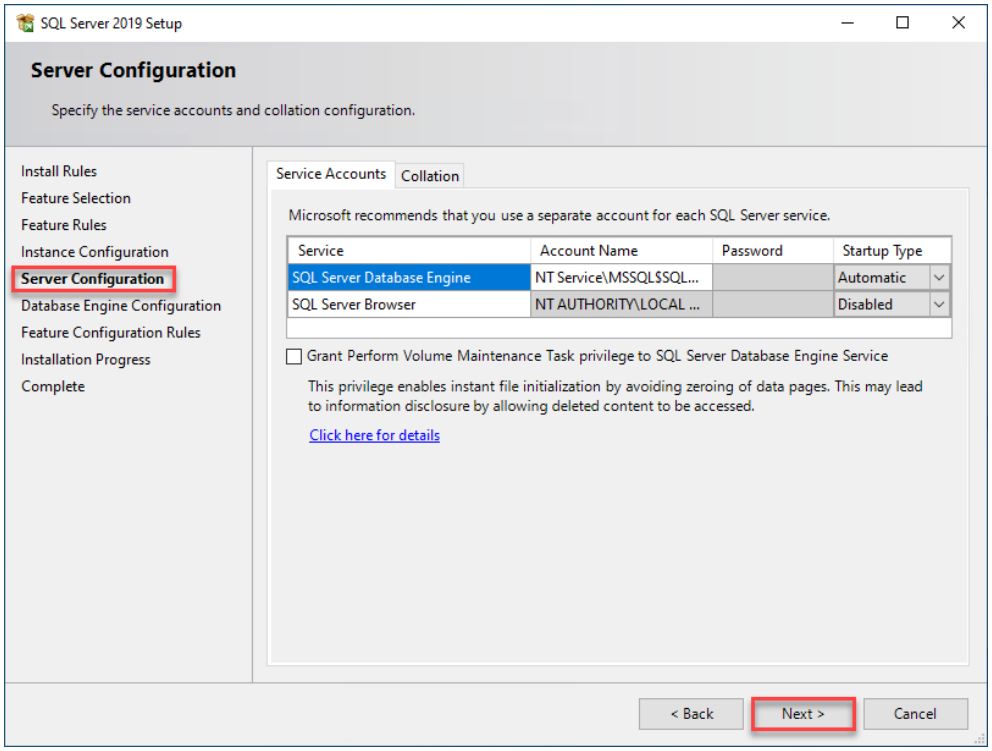
4.1.6 Instance Configuration

Keep the default instance name “SQLExpress”.



4.1.7 Server configuration

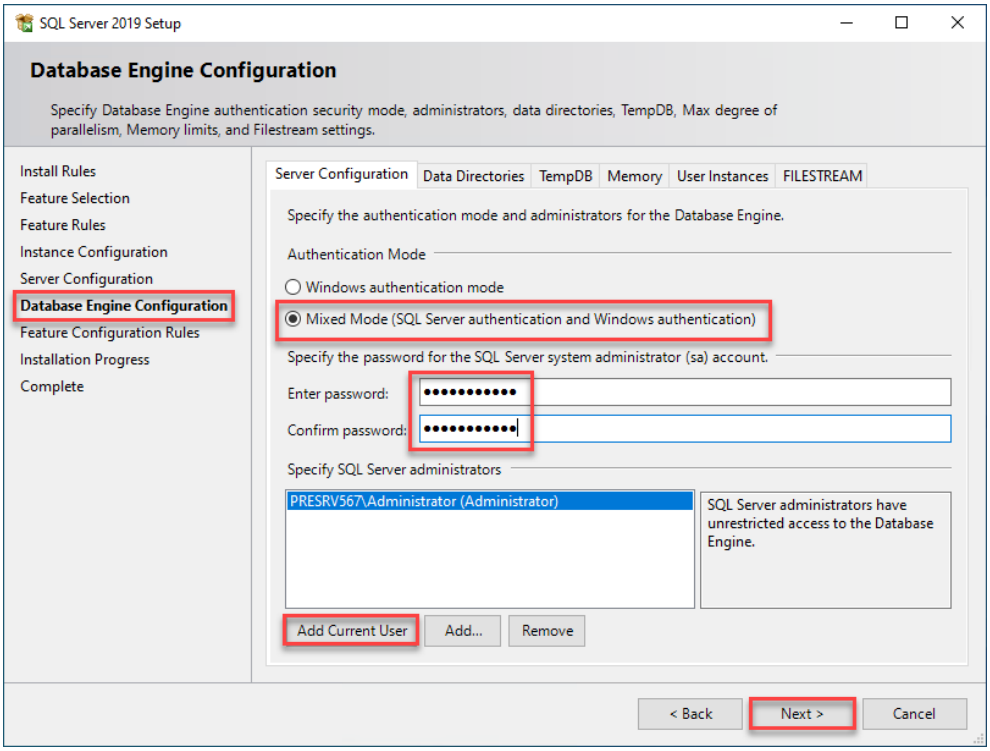
Confirm this point with “Next



4.1.8 Database Engine Configuration

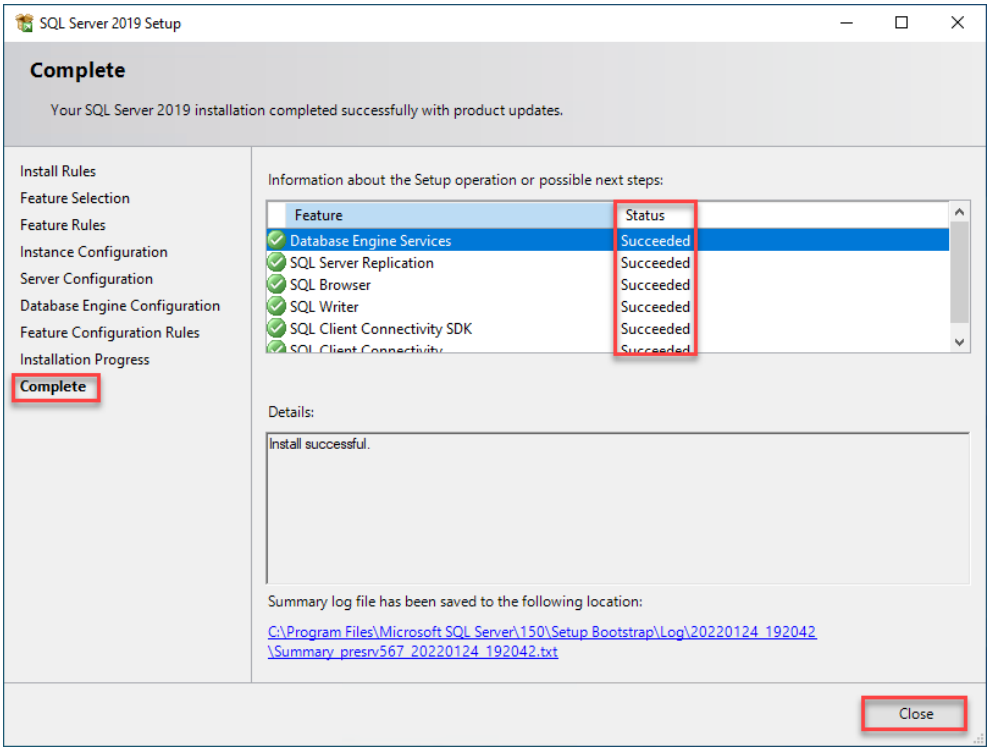
Perform the following steps here:

- Change from “Windows authentication mode” to “Mixed mode”.
- Assign a password for the SA (system administrator on the SQL server).
- Select “Add current user”.
- Confirm with “Next”.



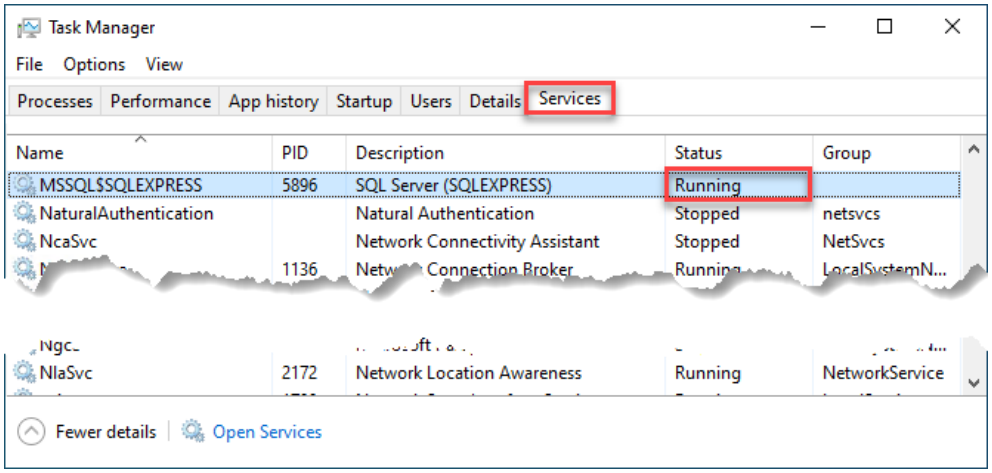
NOTICE:
The added user is authorized to create databases and make changes to them.

- Now the final installation is running, which can take some time. After successful installation, close the setup by clicking “Close”.



4.1.9 Check Windows Services

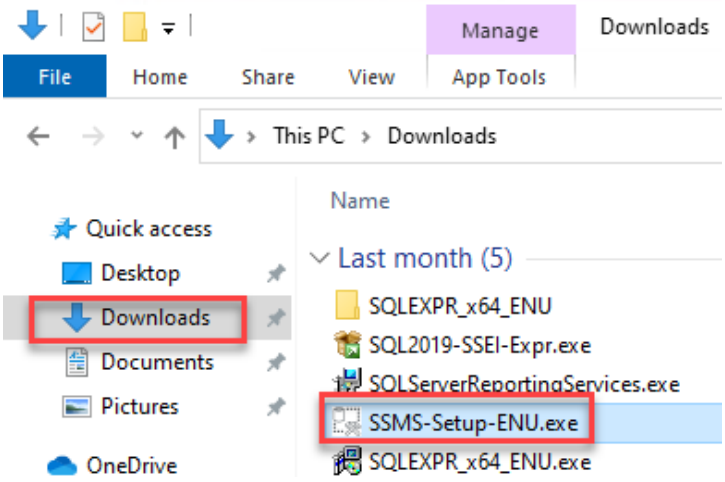
In Task Manager, tab Services, check if the “MSSQL$SQLEXPRESS” service is running.



4.2 Microsoft® SQL Server Management Studio (SSMS)

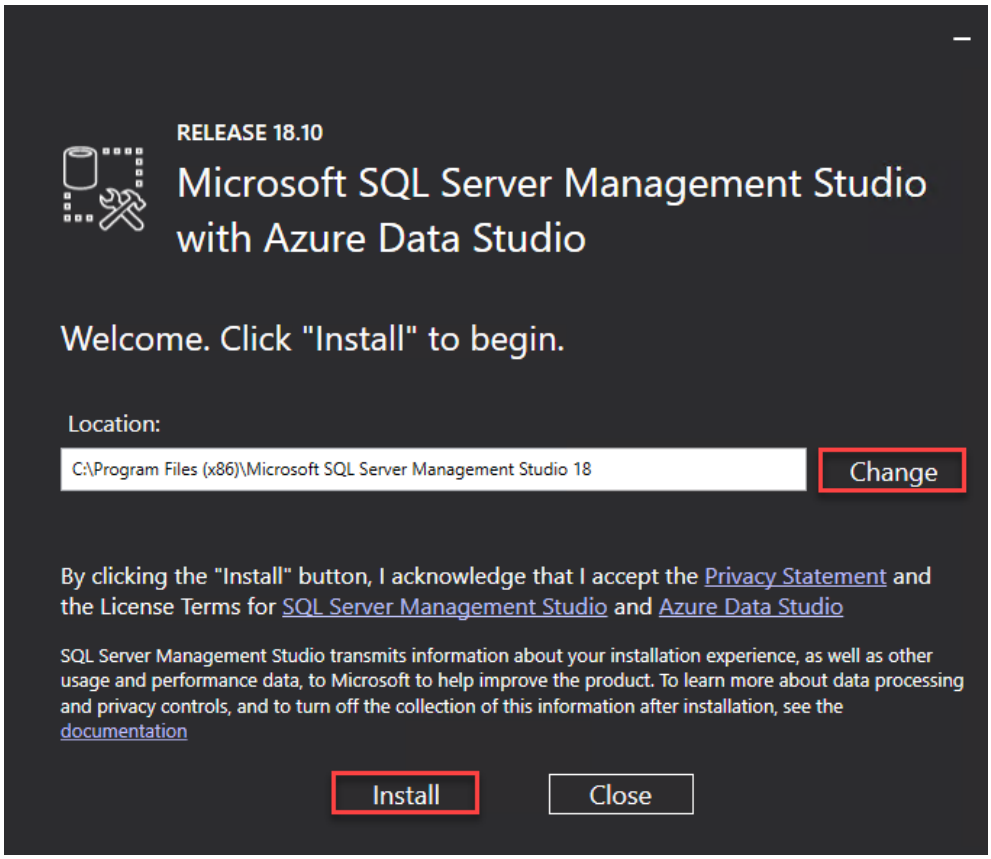
› Change to the path by selecting the downloaded file (3.3 Download the required Microsoft® software) – by default “Downloads” on your computer.

› Double-click to start the Management Studio setup (SSMS-Setup-xxx.exe).



› If required, you can change the installation path.

› Click on “Install”.



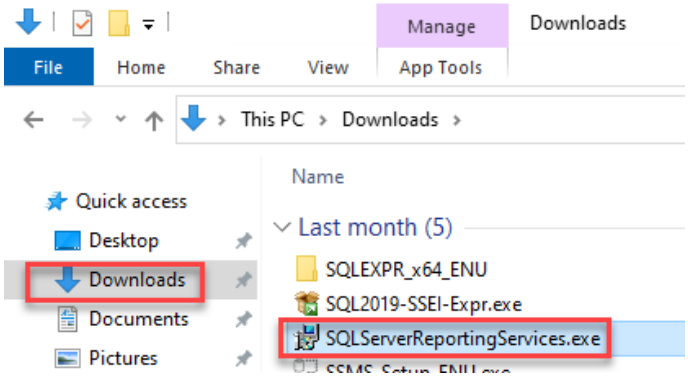
› If necessary, restart the computer.

4.3 Microsoft® Reporting Services

4.3.1 Installing SQL Server Reporting Services

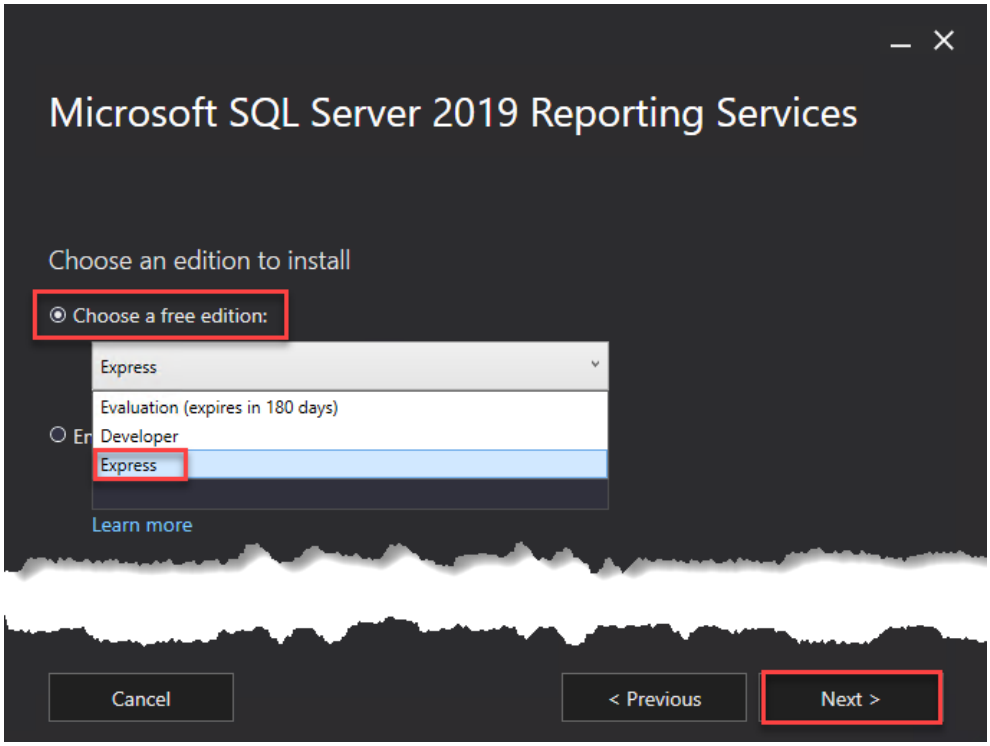
› Again, choose the path where downloaded files (3.3 Download the required Microsoft® software) have been saved.

› Run the “SQLSeverReportingServices.exe” setup.



› In the window that appears, click Install Reporting Services.

› Select “Express” under the point free edition. Continue the installation by clicking “Next”.



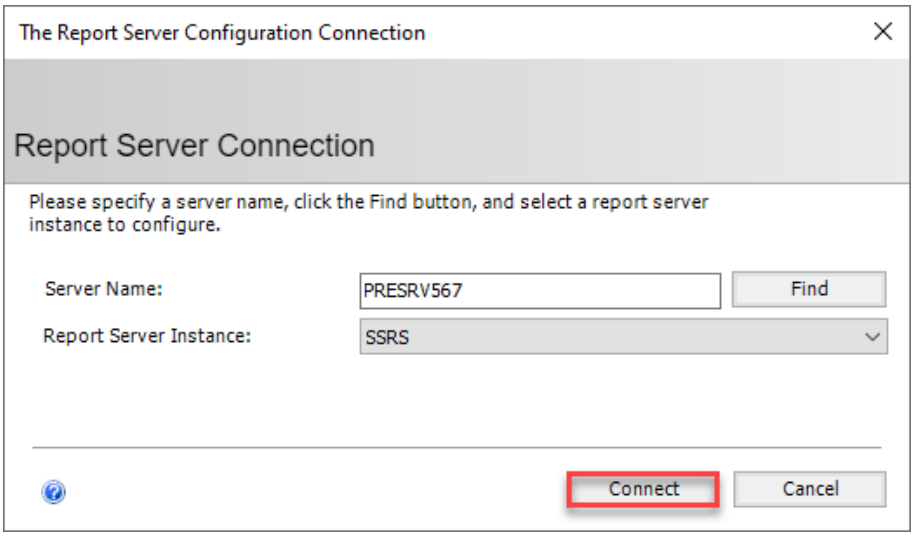
› Accept the license terms by checking the box and click “Next” each time.

› If required, you can now change the installation path or simply click “Install” to perform the installation.

› After the setup has been completed successfully, choose in the window “Configure Report Server”.

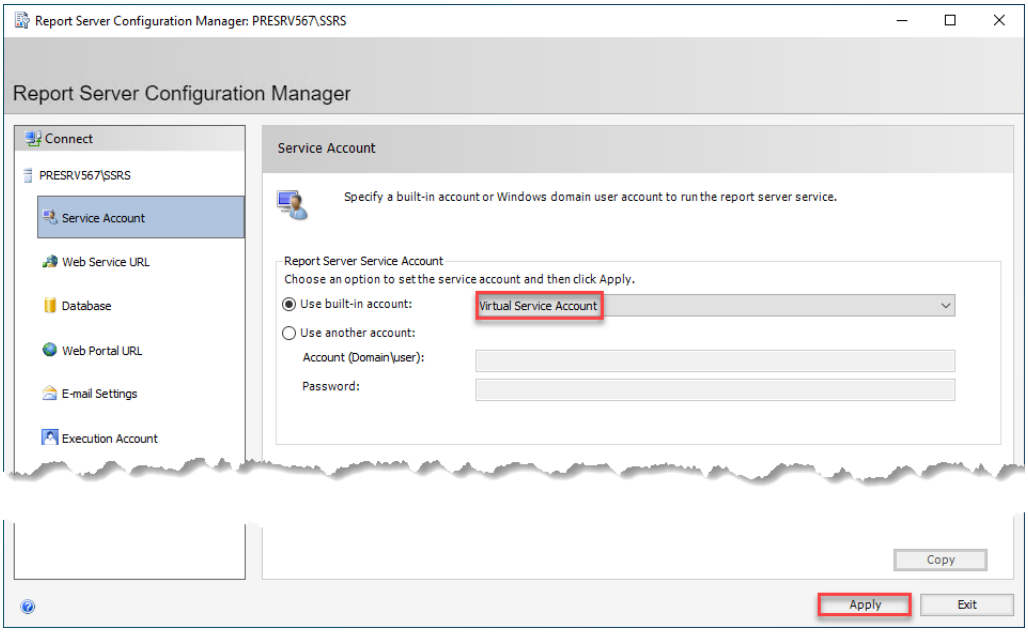
4.3.2 Configuration Manager for Report Services

› Connect to the Report Server.



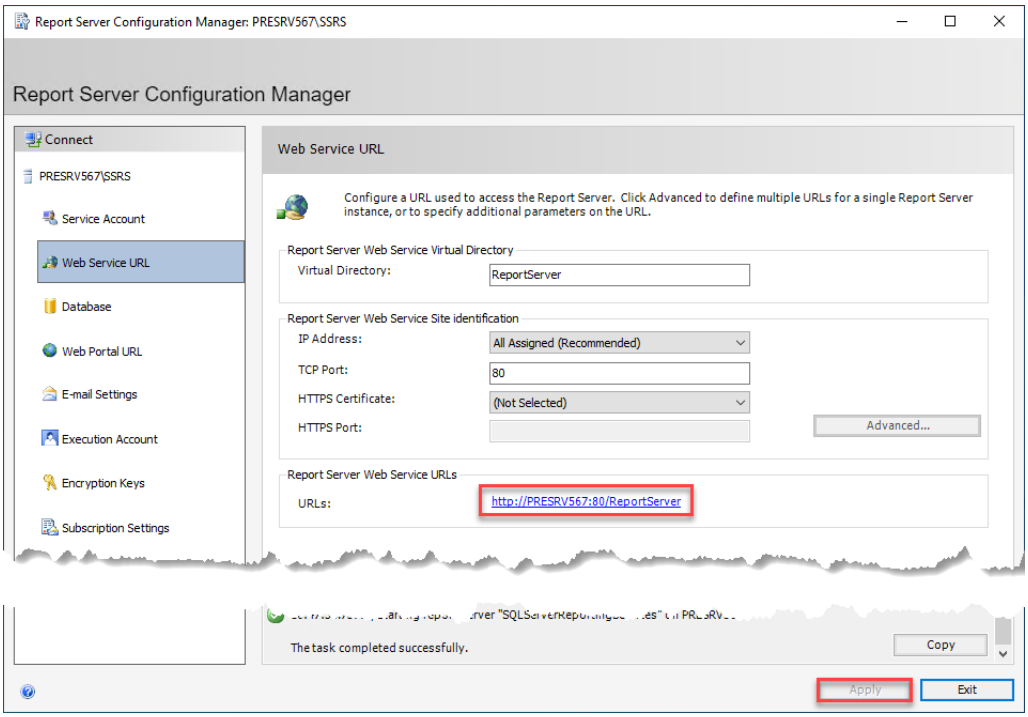
4.3.2.1 Service account

› If “Virtual service account” is not yet preselected here, change this, and confirm with “Apply”.



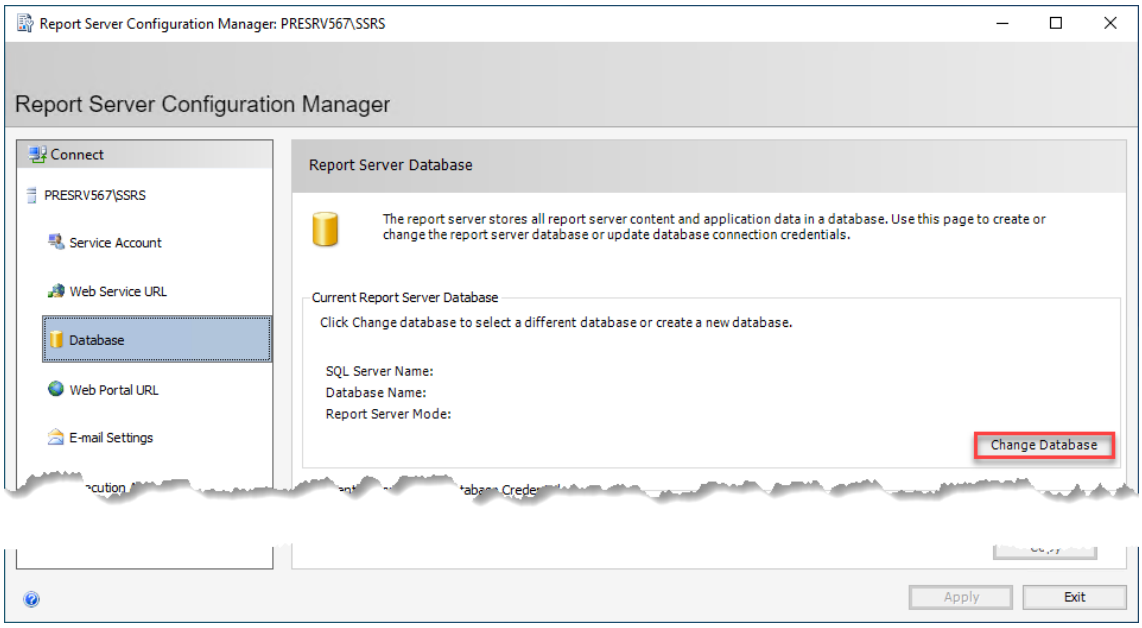
4.3.2.2 Web service URL

› Switch to the “Web service URL” tab and confirm the entries with the “Apply” button. If this has been done successfully, the entry is shown in blue (hyperlink) under "URLs:".

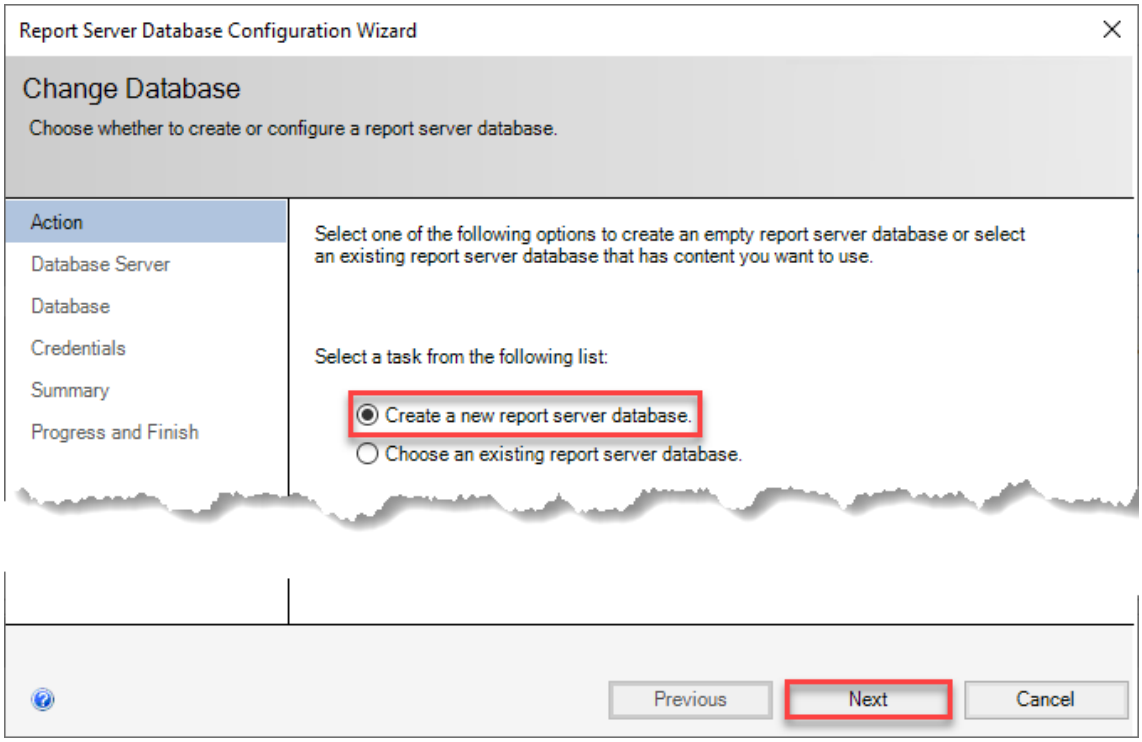


4.3.2.3 Database

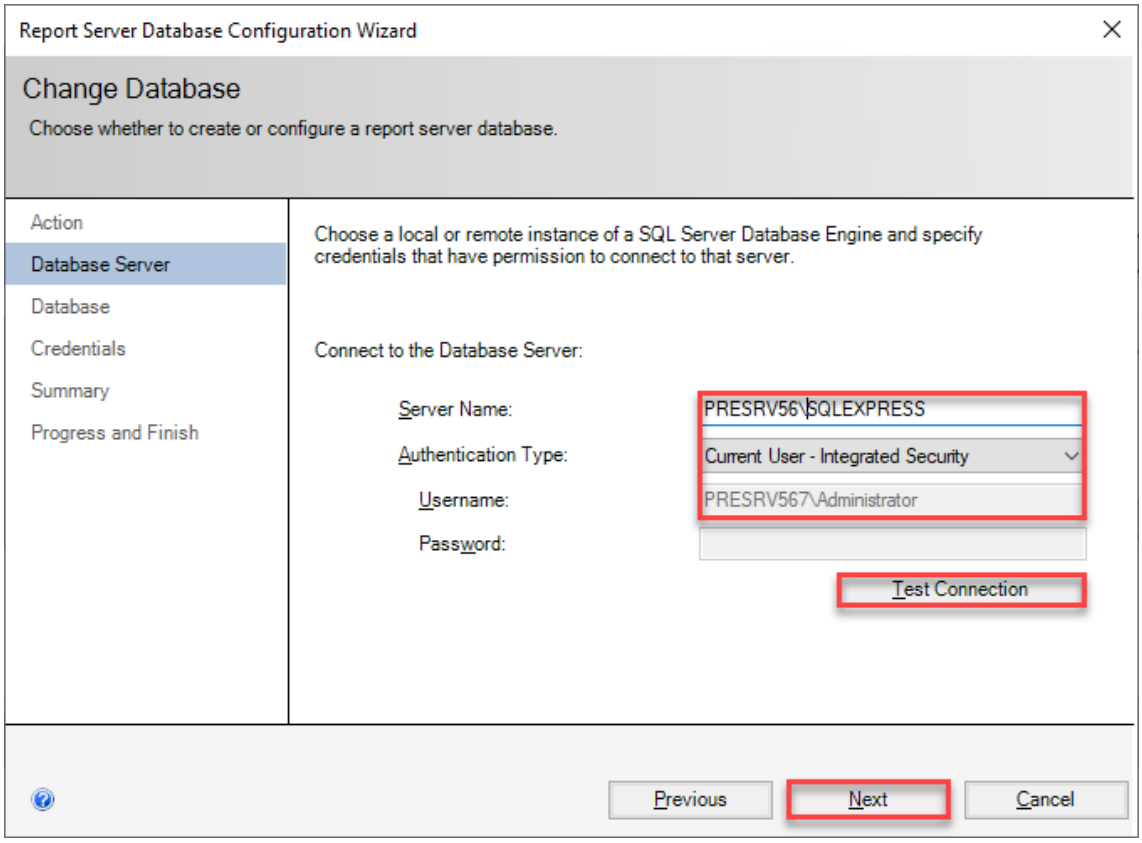
› If no database information is shown, click the "Change Database" button.



› Select "Create a new report server database" and click "Next".

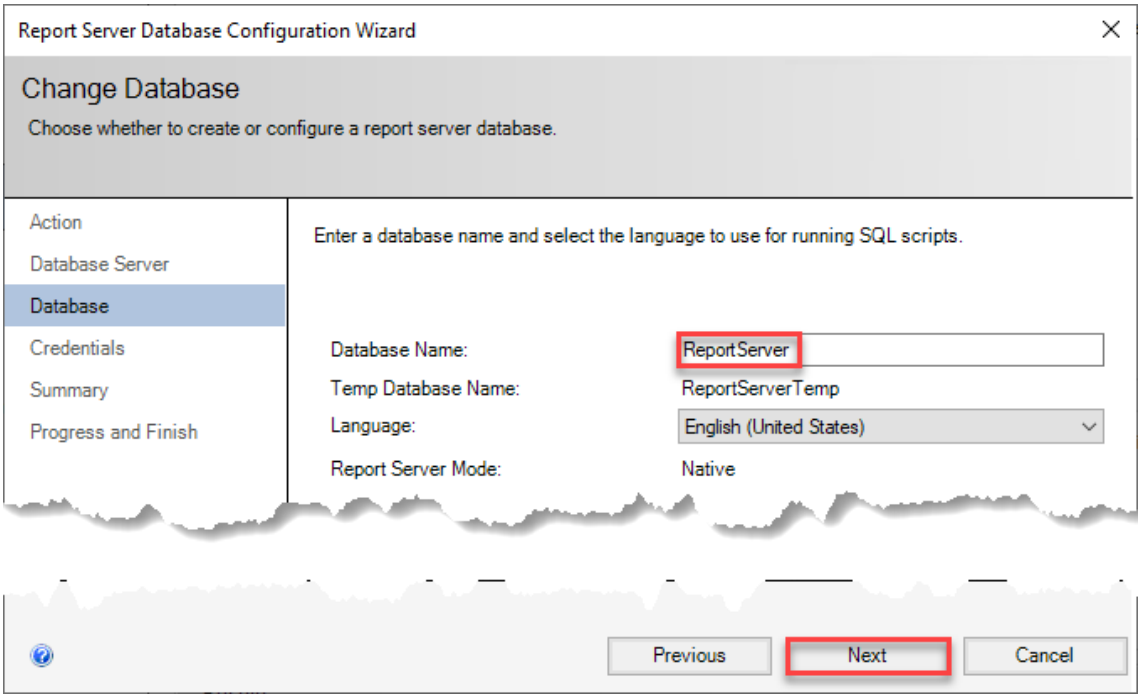


› For the Server Name, enter your computer name and the instance name separated by a backslash. Verify that Current User Authentication Type is selected.

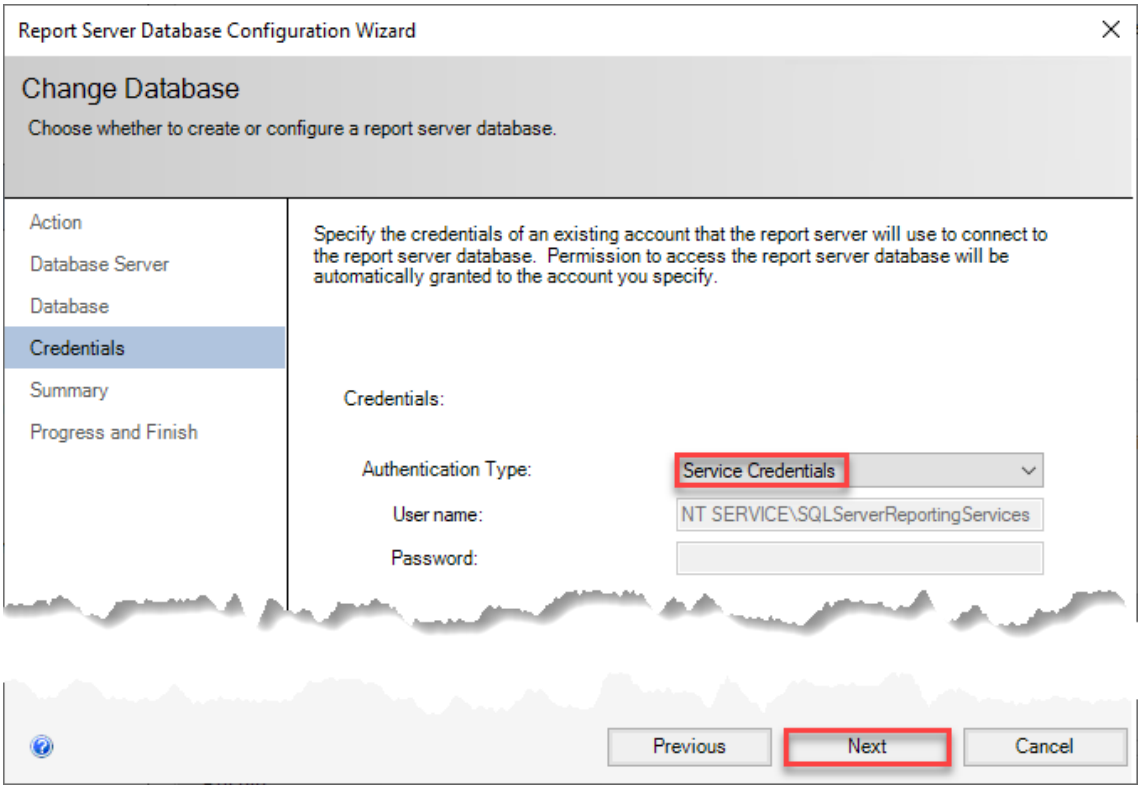


› Test the connection using the corresponding button. If it is executed successfully, click "Next". Otherwise, check the entry of the server- and instance name and test the connection again.

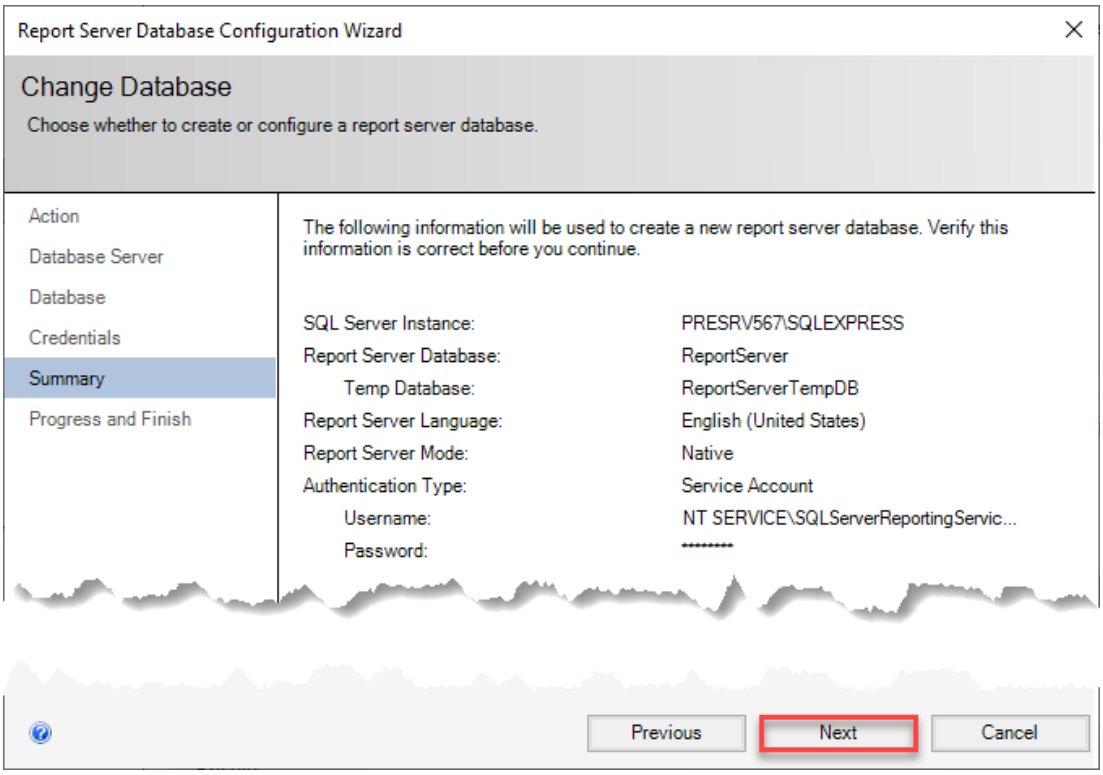
› Select a name for the report server database. - we recommend keeping the default name "ReportServer" and confirm with "Next".



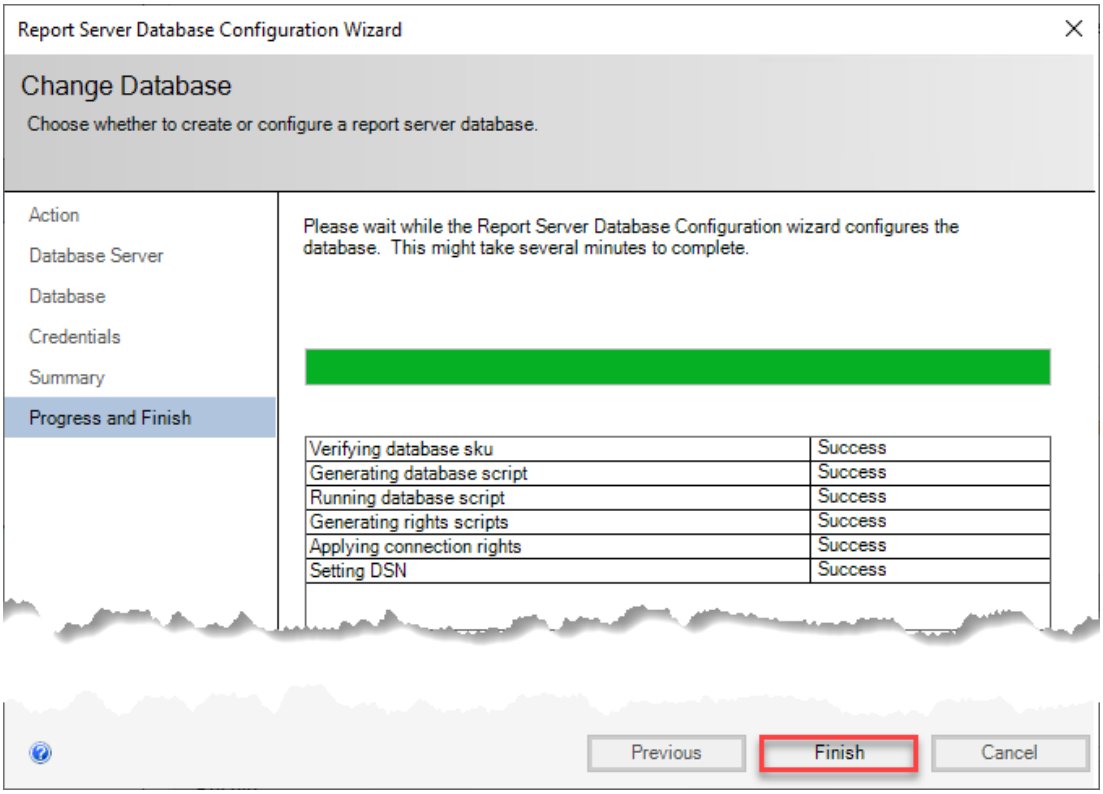
› Select the authentication type "Service Credentials" and confirm with "Next".



› The configuration is summarized, confirm with "Next".

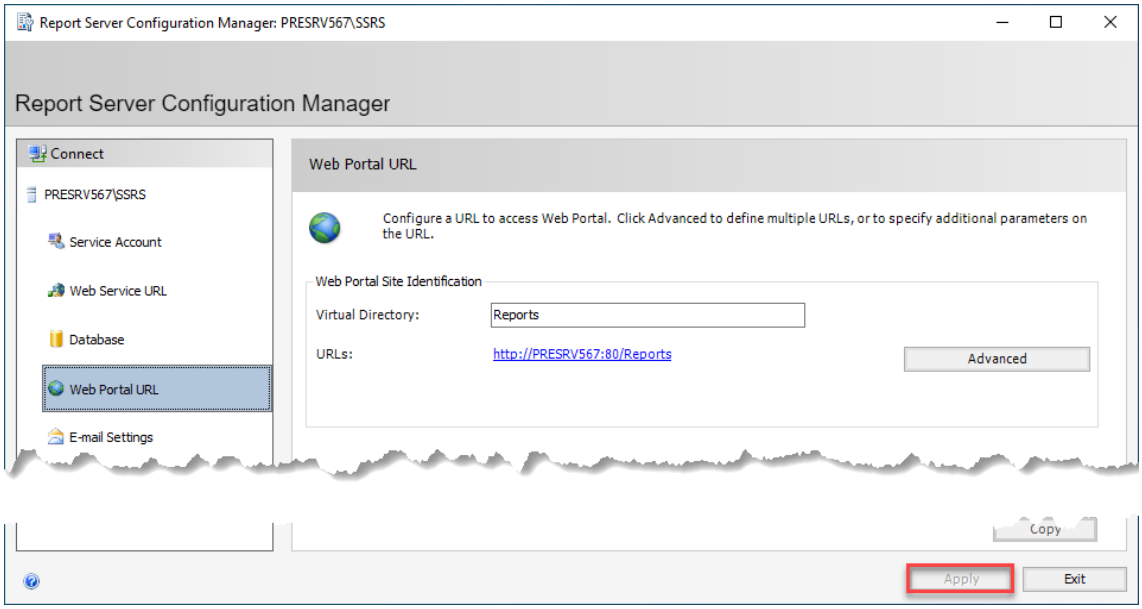


› When this has been completed successfully click on "Finish" to close the dialog.



4.3.2.4 Web portal URL

› **Be sure to click the** "Apply" button here. If this is not done, the Report Server is not configured correctly.

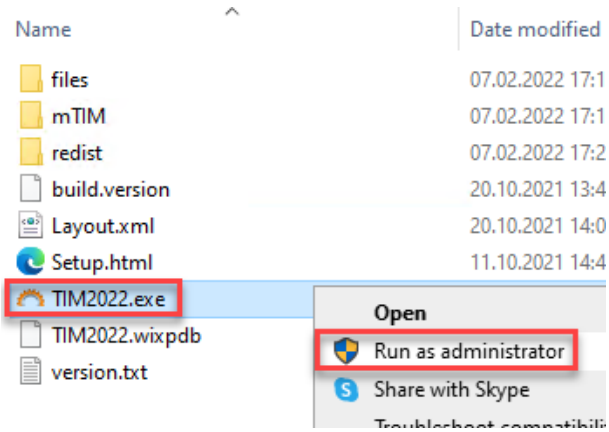


4.3.3 Authorizations Report Services

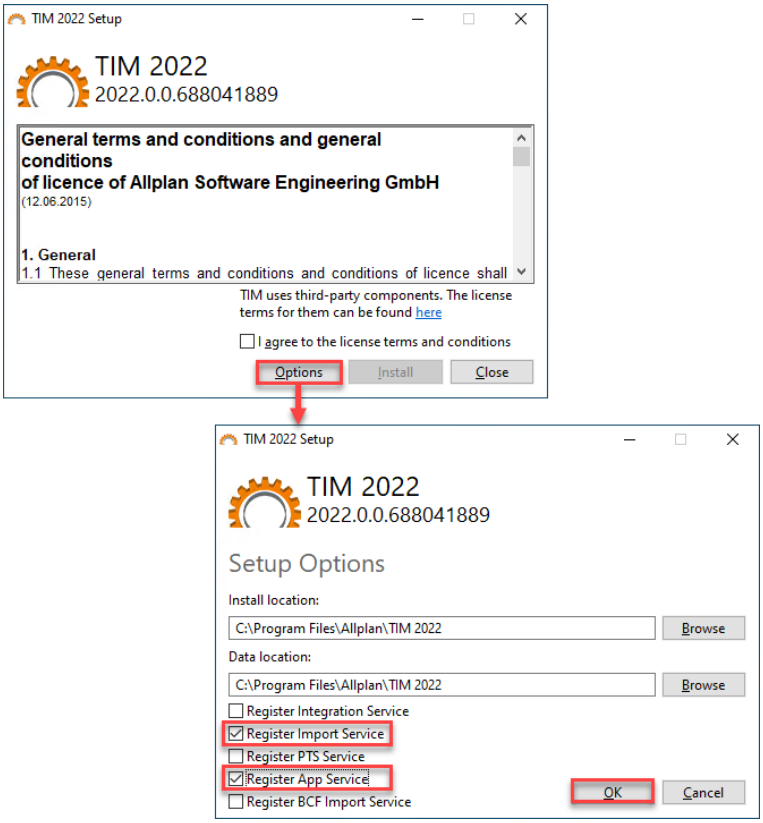
For a local installation, no permission settings should be required. If access problems occur unexpectedly, extend the permissions as described in the online help.

4.4 Tim Essentials

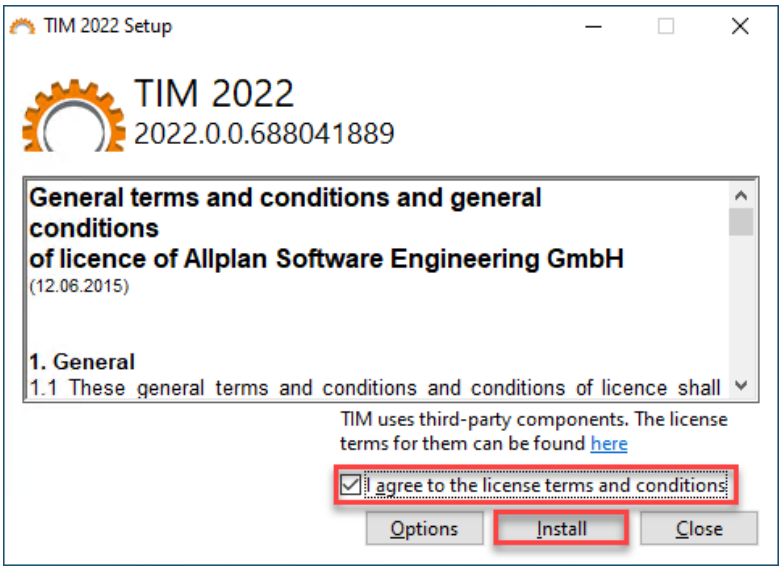
› Please call in the corresponding folder (3.1 Download Tim Essentials) to open the setup file (Tim20xx.exe). We recommend to (with right mouse button) "run as administrator".



› In the following window please go to "Options" and check "Register App Service" and "Register Import Service". With "OK" you close this dialog window again.



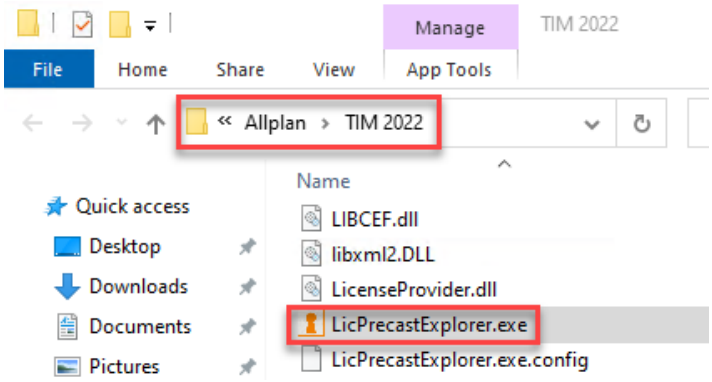
› Accept the license terms and start the installation.



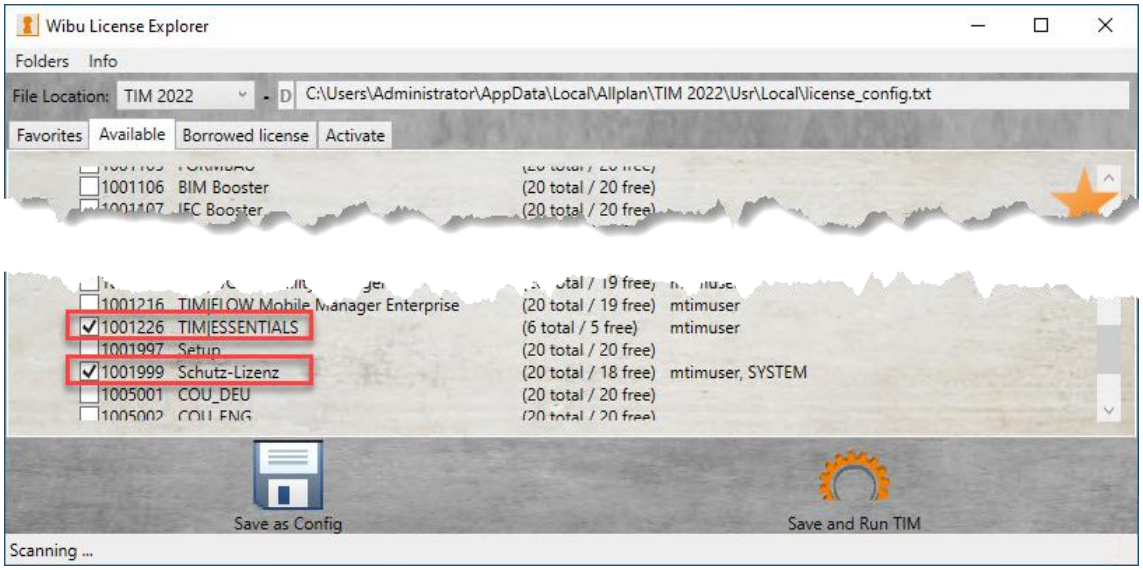
› After successful installation, please close the setup by clicking on "Close" or, if necessary, perform a restart

5 LICENSES

By running the "Licence Explorer" you can check the available licences.



To start Tim Essentials properly, at least the following licenses must be activated:

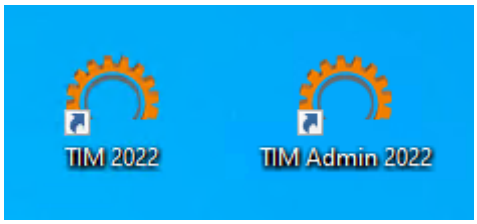


6 CONFIGURATION TIM ESSENTIALS

This section describes the main requirements and steps for proper technical configuration of Tim Essentials.

These instructions are used to perform a standard single-user installation on a workstation with the required basic configuration. Detailed configurations of the expandable modules or extended factory settings are not described here.

There are now 2 new program shortcuts on the desktop:



- Tim 20xx is the program for the user (client).
- Tim-Admin 20xx is used for administration activities (project or user administration, software updates, providing or changing Tim reports).

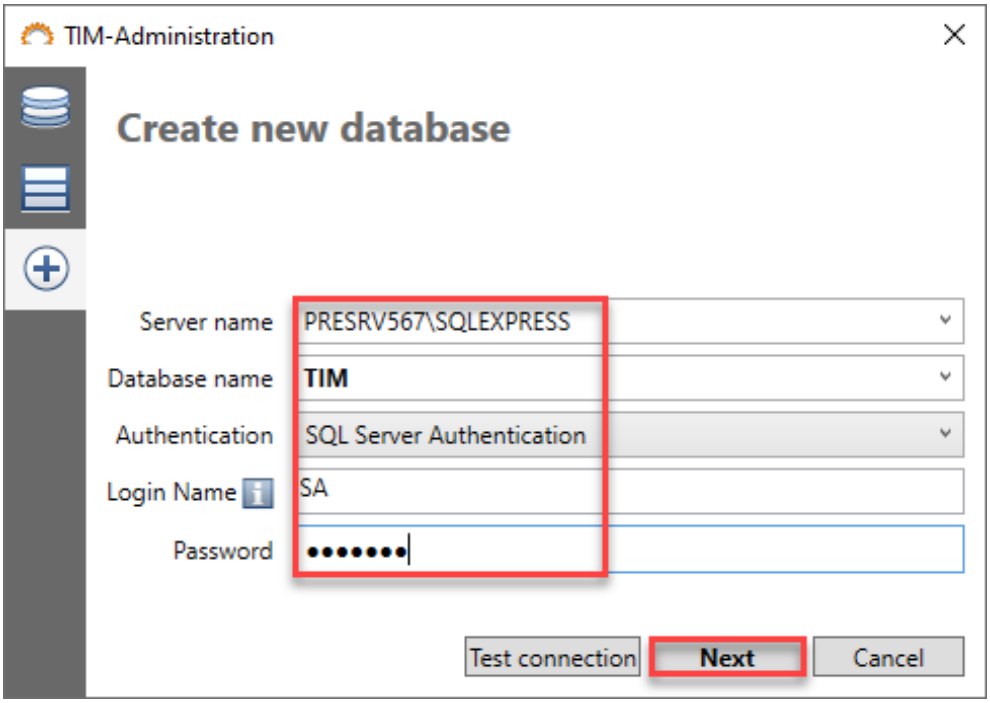
NOTE
Please note that you can only start one of the two programs properly at a time. Exit one first before starting the other.

6.1 Tim-Admin

6.1.1 Create new database

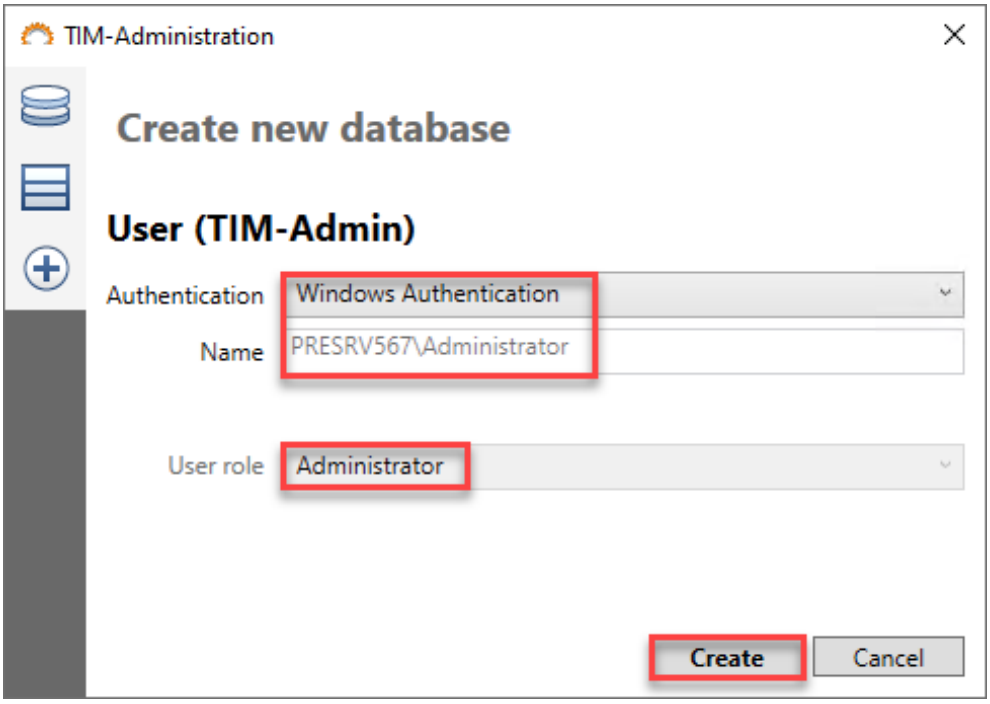
Start the Tim administration program and switch to the lowest icon "Create new database" on the left to create the database needed for the Tim Essentials on the SQl server.

- For Server names, enter your computer name and the name of the database instance (SQLExpress) separated by a backslash.
- Assign any database name. Our recommendation is "Tim" without version name or other extension.
- Select "SQL Server Authentication", enter "SA" for the login name and enter the password you assigned during the SQL Server installation (see point 4.1.8)
- Confirm with "Next".

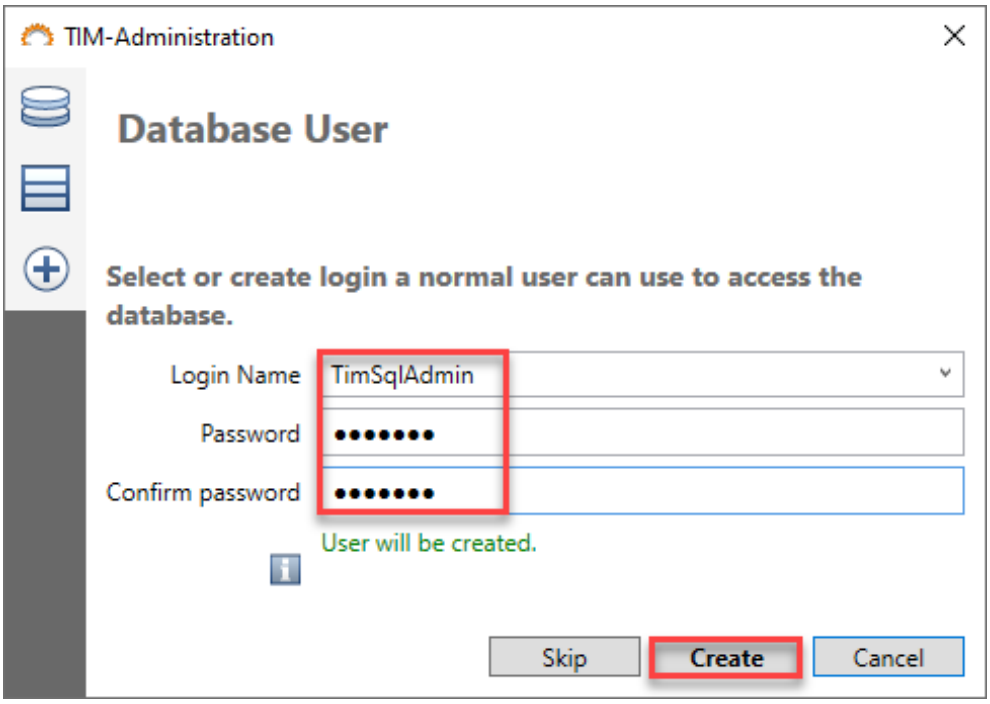


NOTICE:
Use the "Test connection" button to check whether the connection to the database can be established successfully. If it is not successful, check your entries and try again.

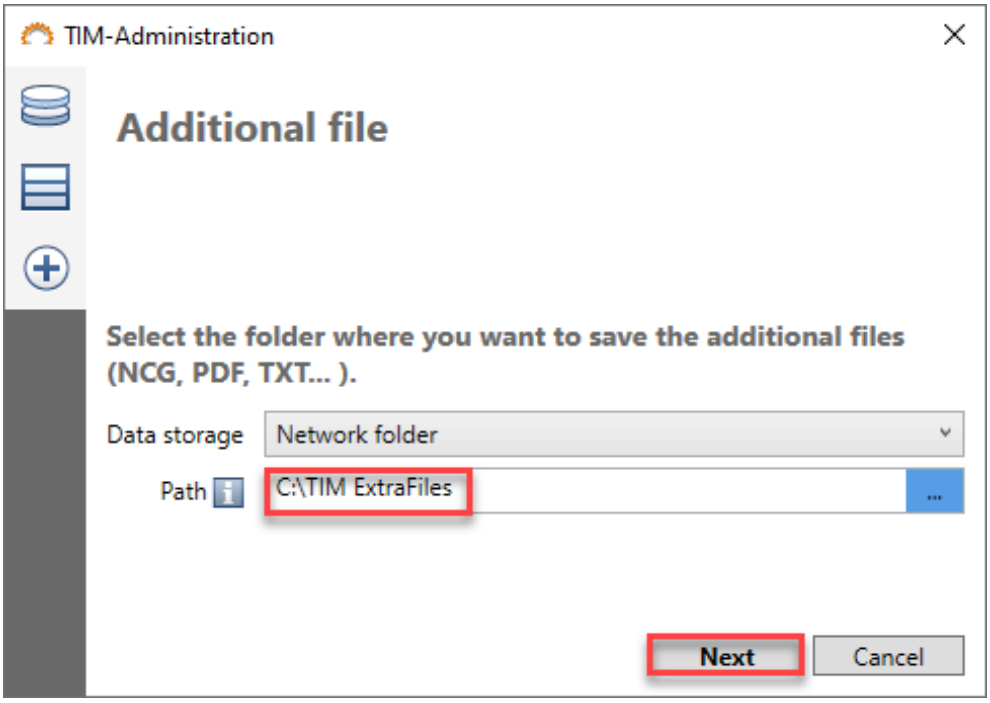
› You create the user (Tim-Admin) with "Windows Authentication"



In the window "Database User", enter "TimSqlAdmin" for the login name and assign a password. Confirm the entries with "Create".



› For "additional files", select the folder "Tim ExtraFiles" created under point 3.2 and confirm each selection with "Next".

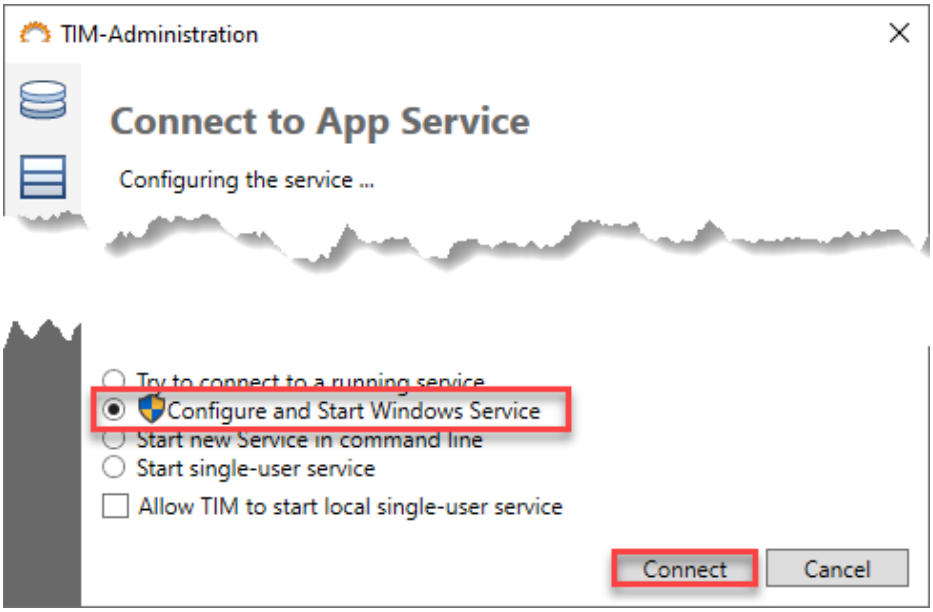


NOTICE:
Among other things, all PDFs that are displayed in Tim are stored in this directory. The note that this is created locally can be ignored.
The selected path can be changed later in the Tim-Admin if necessary.

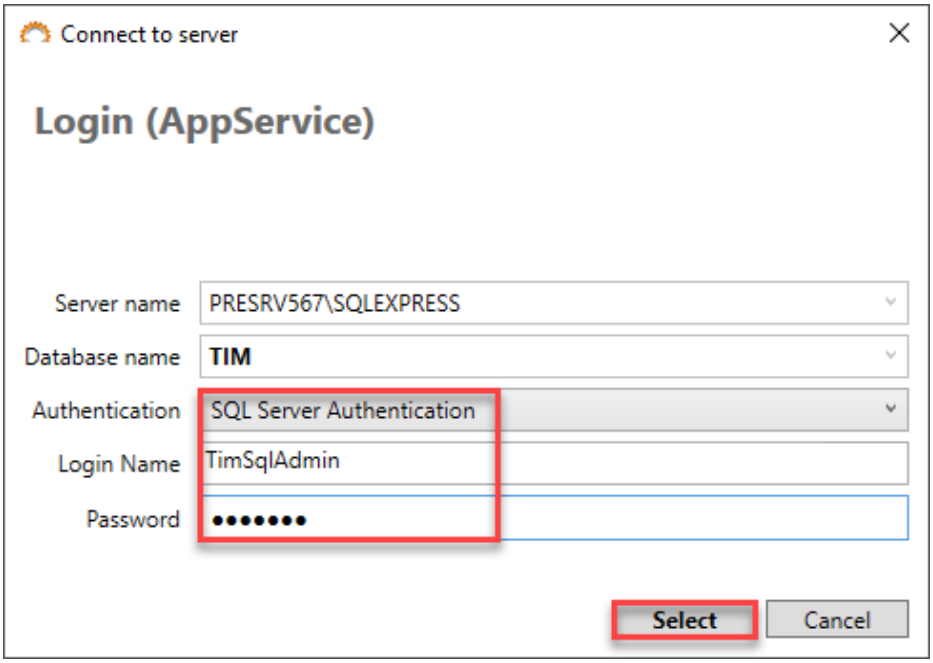
6.1.1.1 Connect with app service

NOTICE:
During the initial installation, the app service configuration window appears automatically after the "additional files" item.

› Select "Configure and start Windows service" and click "Connect".

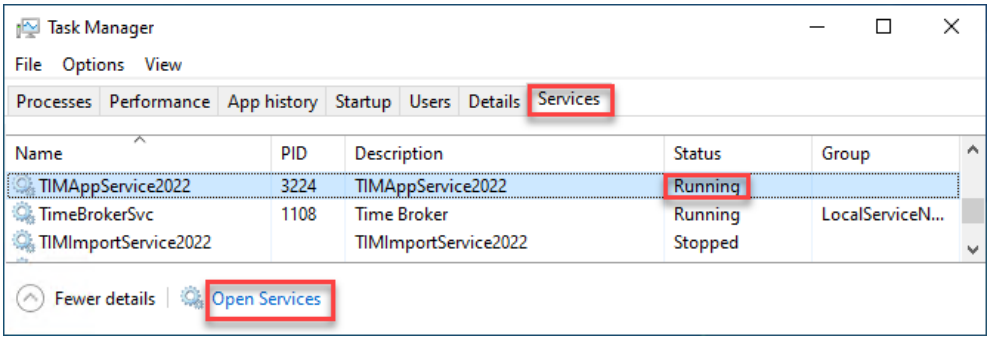


› When logging in, the server name and database name should be displayed correctly. Set the authentication to "SQL Server Authentication" and enter the same credentials as before for Database User (pt. 6.1.1) and click on "Select".

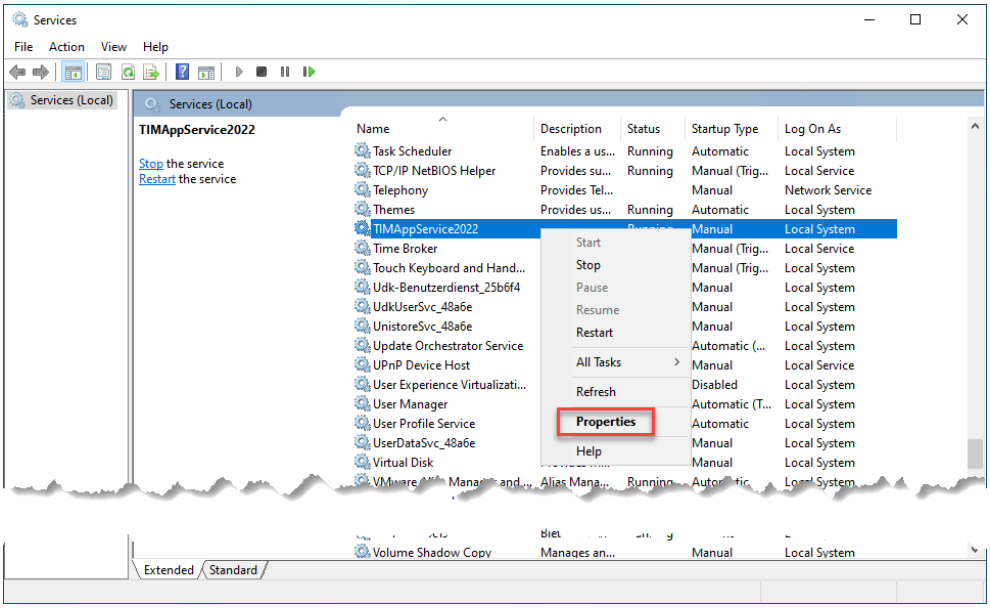


6.1.2 Configure Windows services

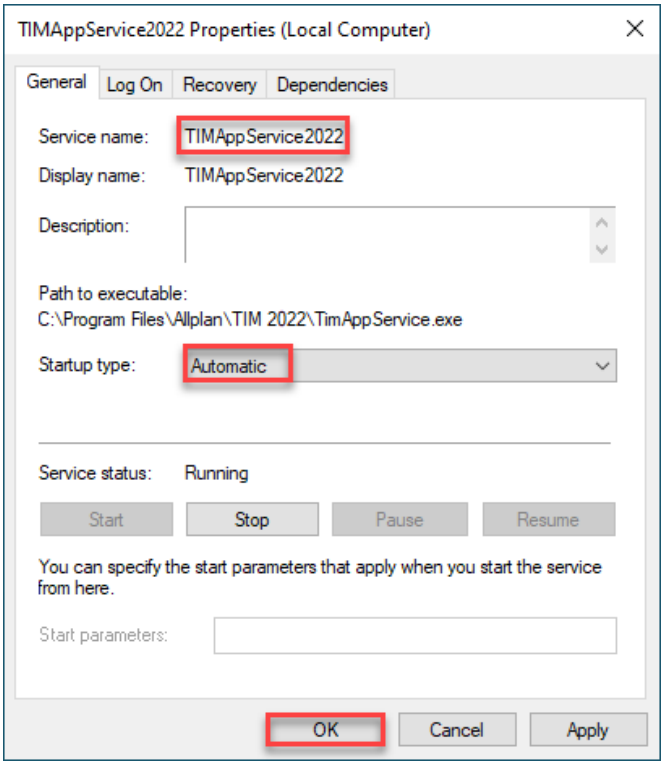
Check in the Task Manager, Services tab, whether the service "TimAppService20xx" is running. Now select the entry and choose "Open services".



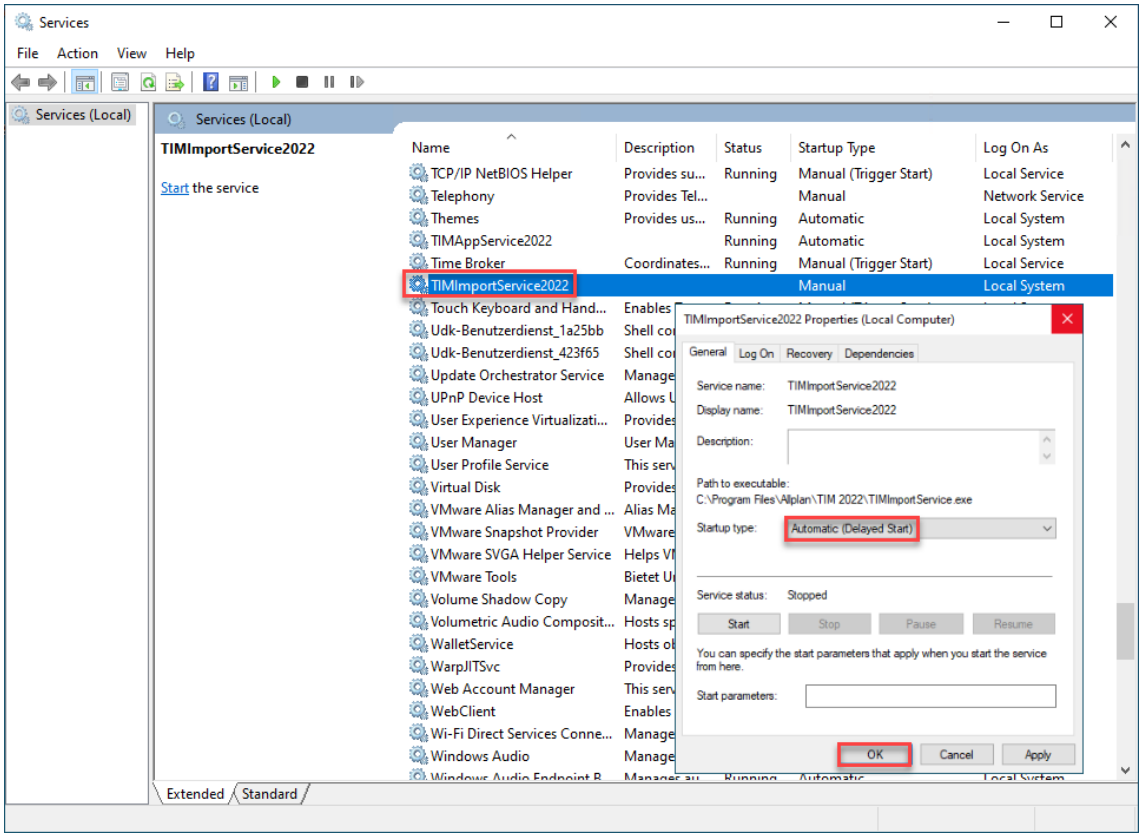
› In the following window, find the corresponding entry, right-click on it and select "Properties" from the context menu.



› Set the startup type to "automatic" and confirm with "OK".



› Do the same for the entry TimImportService20xx but select "Automatic (Delayed start)".

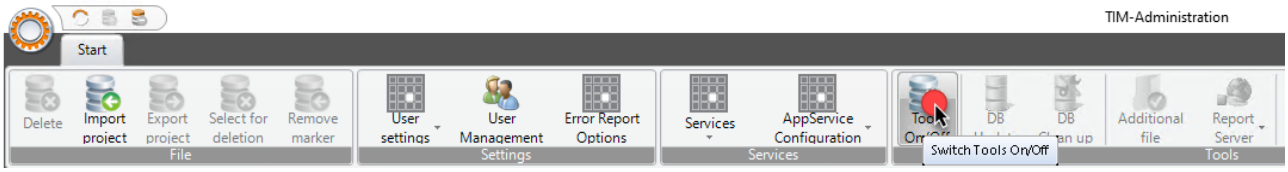


NOTICE:
The settings are required to ensure that the services run properly even after the computer has been restarted.

6.1.3 Upload reports

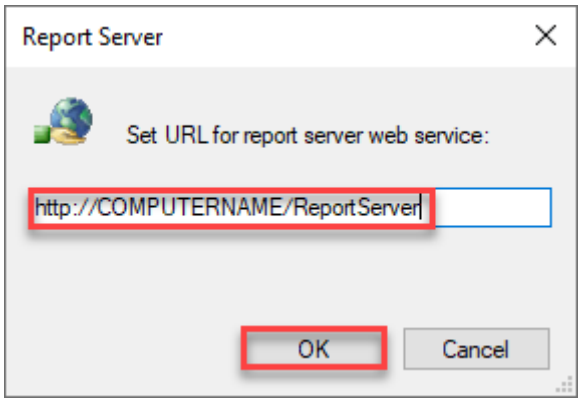
In Tim-Admin it must be defined where (under which URL) the reports delivered by default are stored.

To do this, first activate the toolbar with a click on "Switch tools on/off".



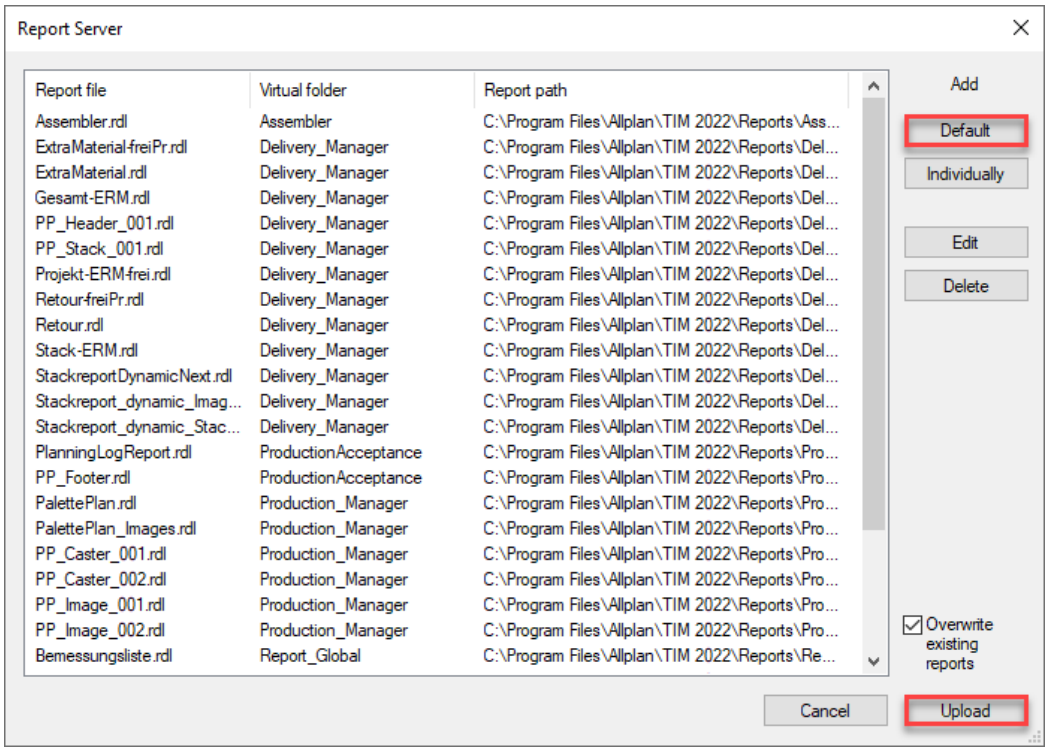
Click the "Report Server" button and select the "Set URL" item

Enter the URL for the report server in the window and continue with "OK".



NOTICE:
The URL can be found in the Report Services Configuration Manager under "Web Service URL" (as defined in pt. 4.3.2.2 defined).

Select "Standard" in the window that now appears, and a list of all available reports will be displayed. Finish this action with "Upload" (The progress of the upload is now displayed in a separate window).

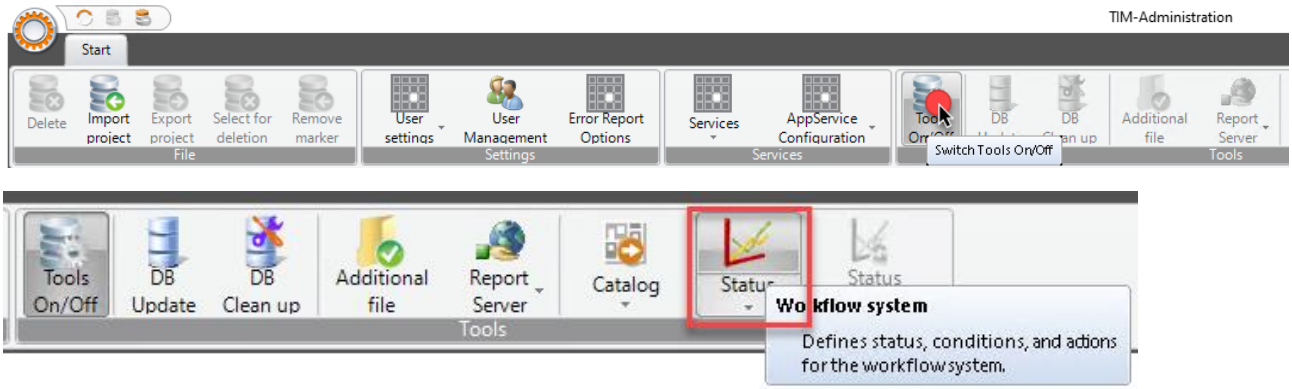


After successfully uploading the reports, they will be available in Tim Essentials.

6.1.4 Show element plans in Tim Client

To be able to display the element plans (pdf) in the Tim Client, the settings must be adjusted.

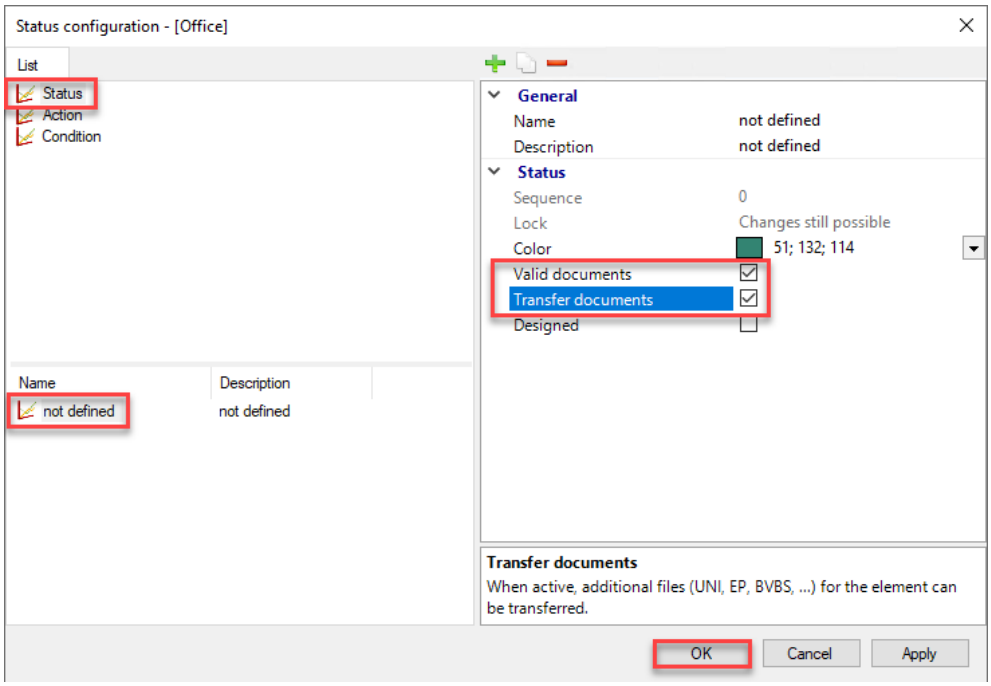
› If necessary, activate the toolbar again and click the "Status" button.



› Confirm the warning with "OK".

› Select the entry "Status" on the left side and "not defined" under Designation.

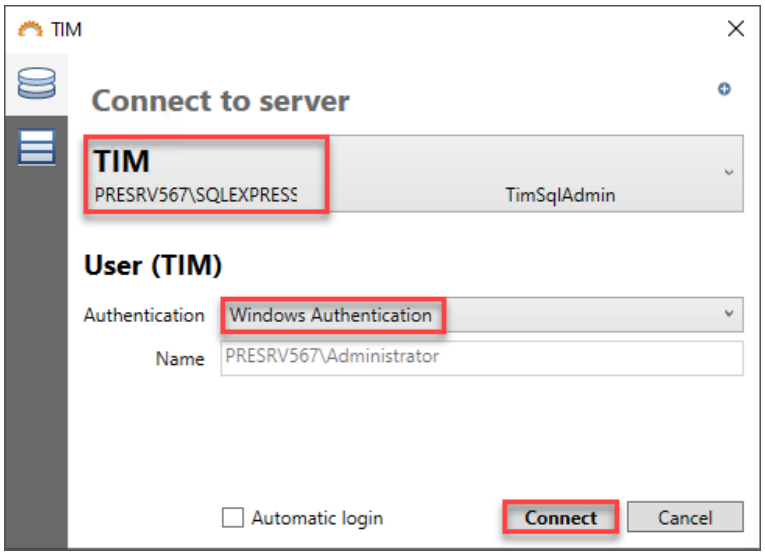
› Set a check mark at "Valid documents" and "Forward documents" respectively and close the window with "OK".



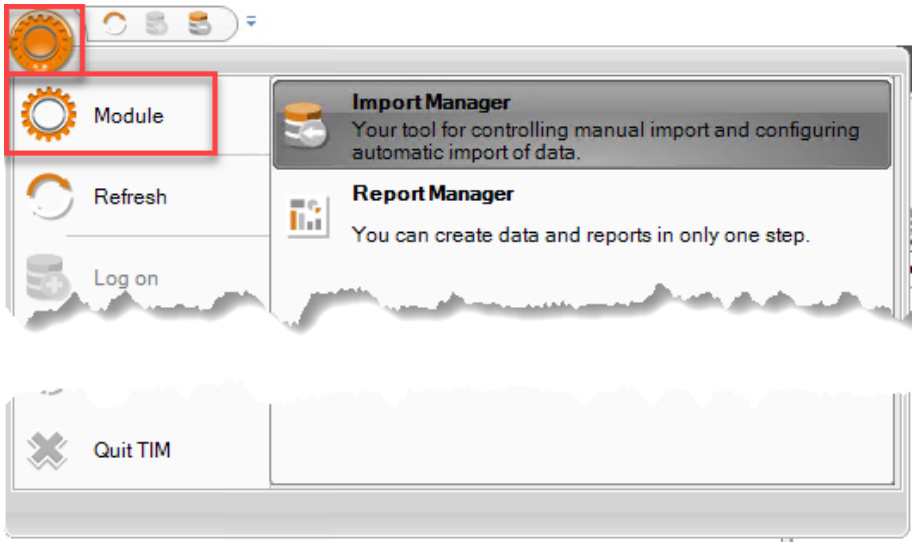
The basic configuration of the Tim-Admin is now complete, and you can close the program.

6.2 Tim (Client)

Log in to the Tim client as follows:



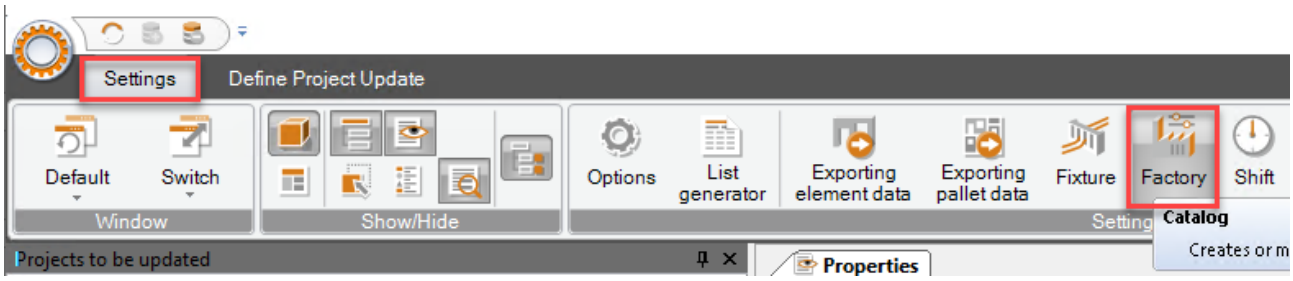
After starting Tim Essentials, two modules are available by default the "Import Manager" and the "Report Manager".



6.2.1 Factory settings

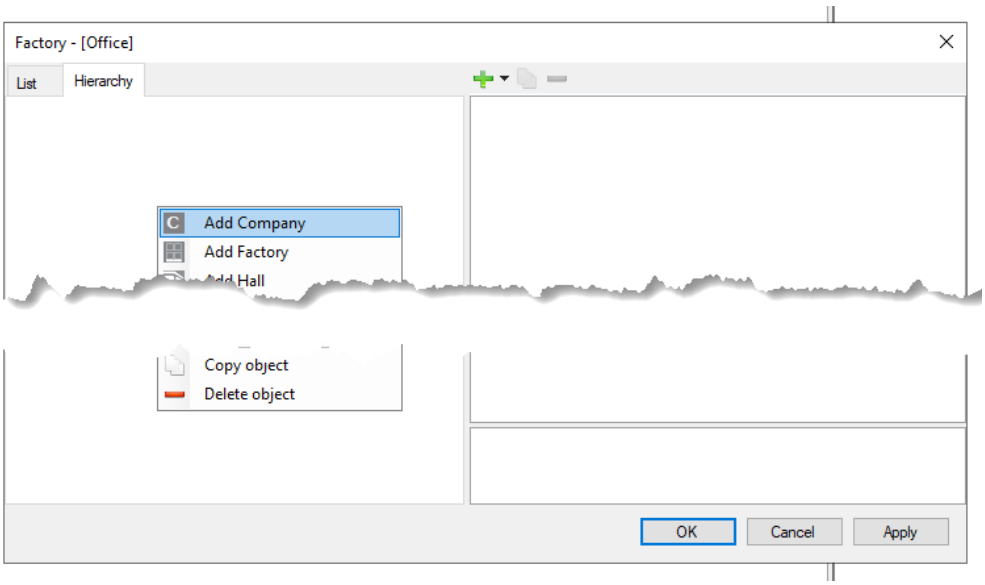
Master data for production planning can be created in the plant configuration.
The creation of a company is mandatory.

To create a company, go to Settings in the menu bar and click the "Plant" button.

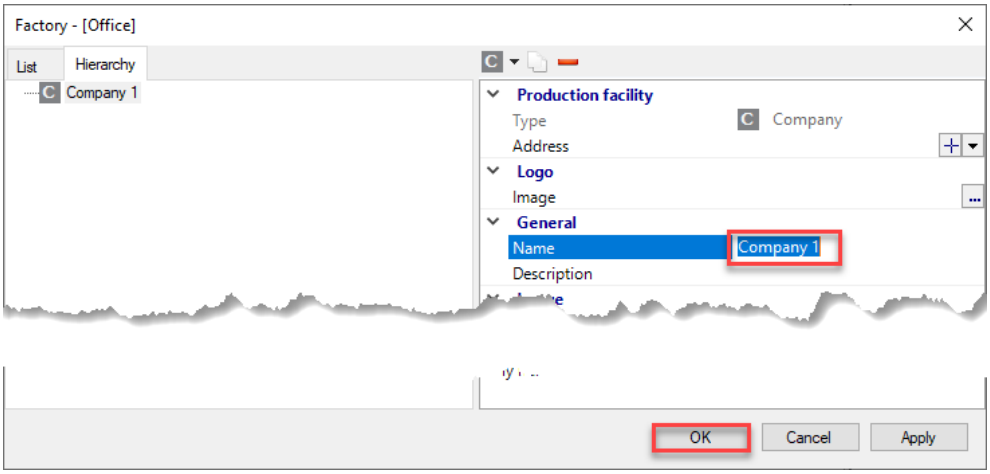


› In the window that appears, select the "Hierarchy" tab, and click the right mouse button in the empty field below it.

› In the context menu that appears, select Add Company.



› Change the name under "General" on the right side and confirm with "OK".

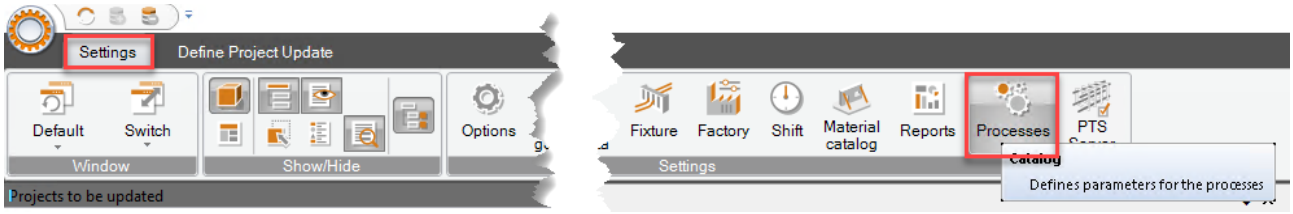


NOTICE:
Please note that the entry of the company name is only a basic setting. If you use other modules or reports, additional settings may be necessary. Detailed information can be found in the extensive Tim Help under Factory settings.

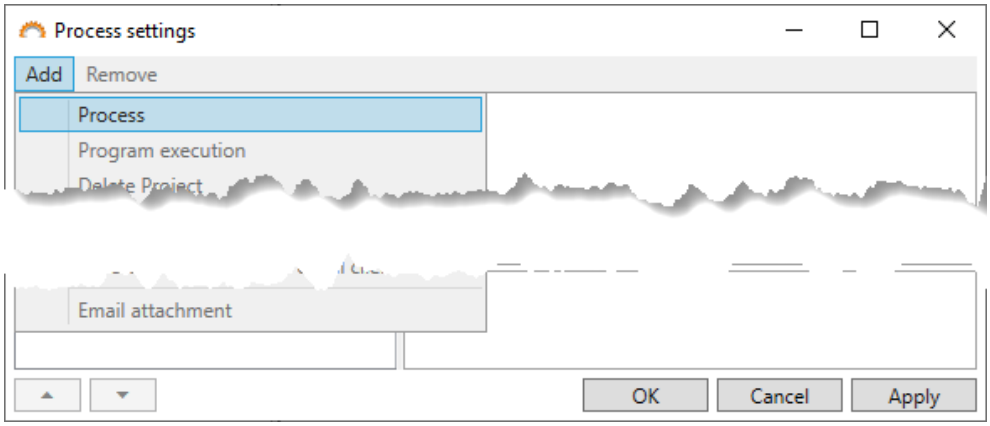
6.2.2 Delete project

To be able to delete a project or drawing file, a process must be created.

Switch to "Settings" in the menu bar and click the "Processes" button.

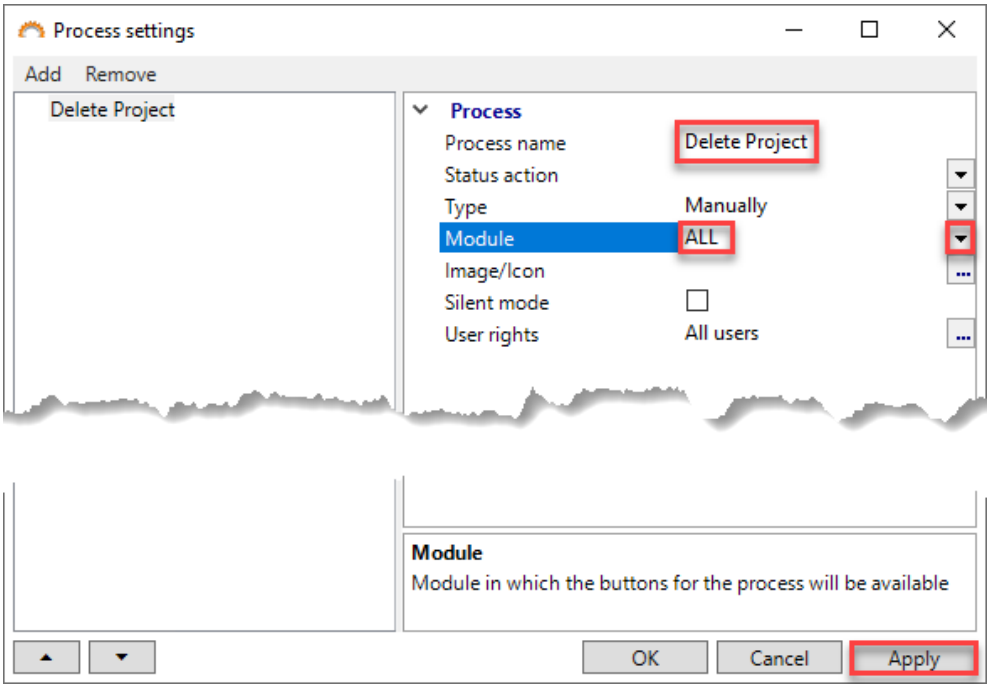


› Go to "Add" in the window and select "Process".



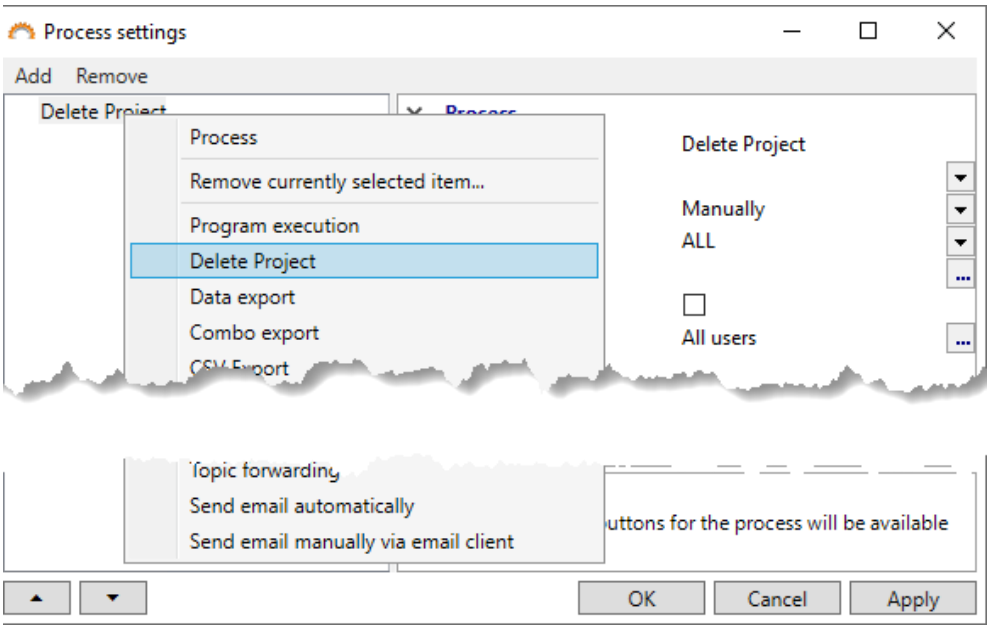
› Now click on the new entry "Process" and change the name to "Delete Project".

› Select the entry "ALL" from the list under the item "Module" and confirm with "Apply". This is necessary so that "Delete projects" is available in every module.

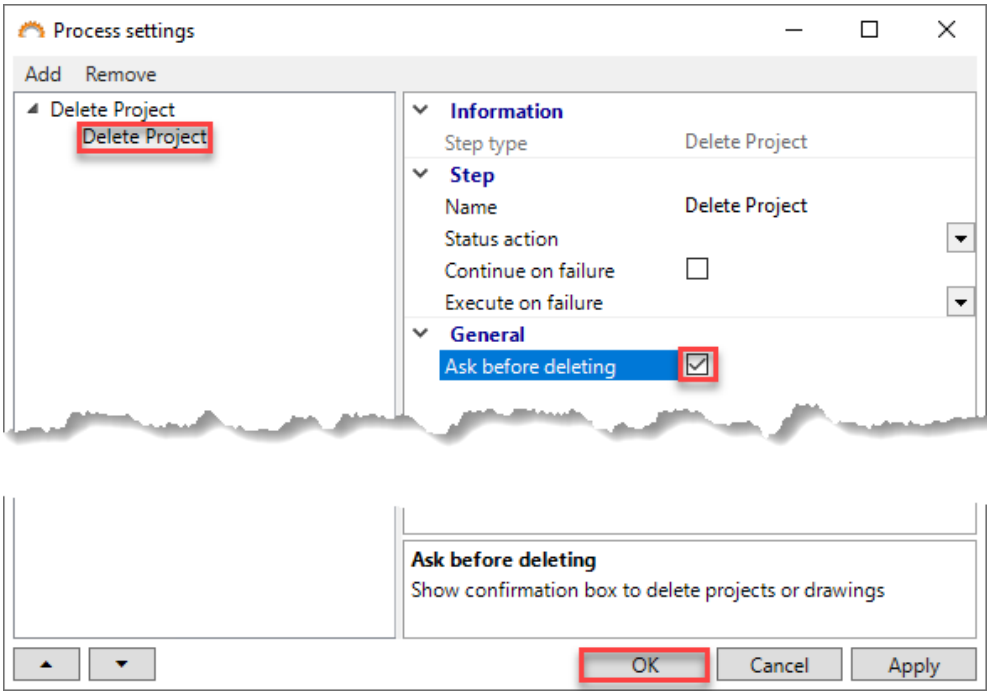


› Switch back to the entry on the left and press the right mouse button.

› Add the entry "Delete process".



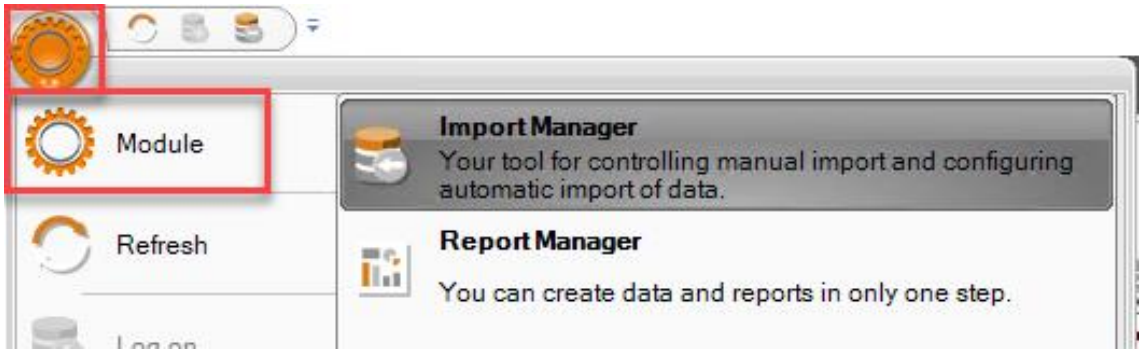
› Under "General" you have the option to confirm the deletion. To do this, set the check mark and confirm with "OK".



7 FIRST STEPS

7.1 Import Manager

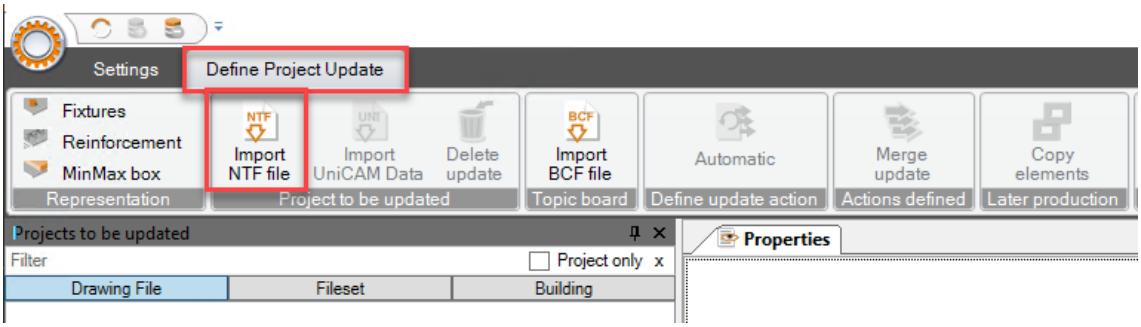
Switch to the "Import Manager" module.



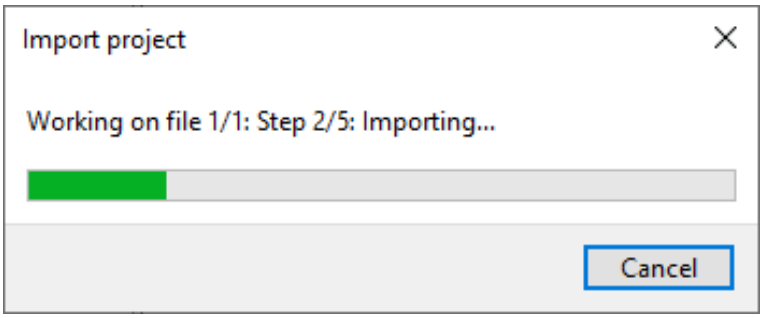
7.1.1 Import NTF data manually

The following description shows the manual import, where all steps are performed individually. Settings for automatic import can be found in the help under Import Managermodule.

› Start the manual import by clicking on "Import NTF file".

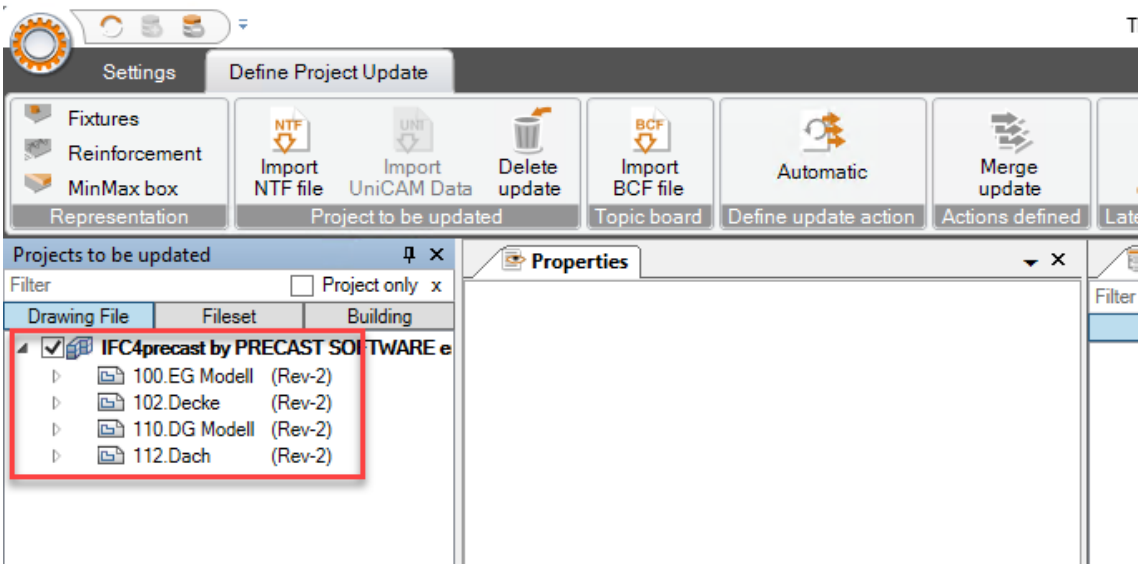


› Select one - or more - NTF file(s). By default, the directory defined in the "NTF path for manual import" attribute in the options is opened. During the import process you will get information about the import status.

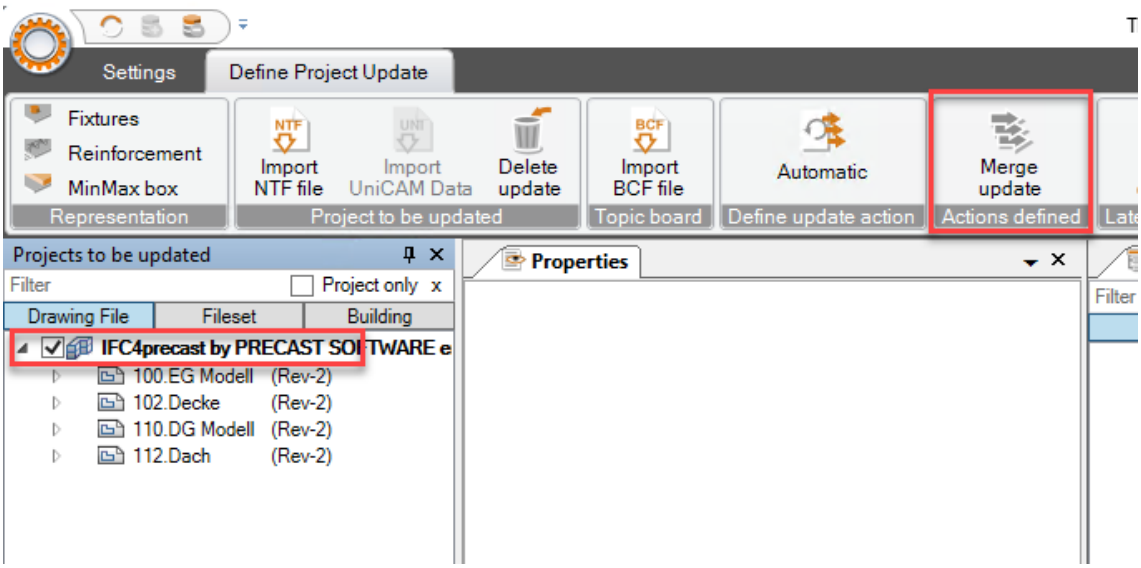


NOTICE:
For the "NTF path for manual import" it is best to use the created folder "Tim NTF Import".

› After successful import, the file information is displayed in the Update Projects window. For detailed information on how to analyse the data, see Importing and processing NTF file in the help section/folder.

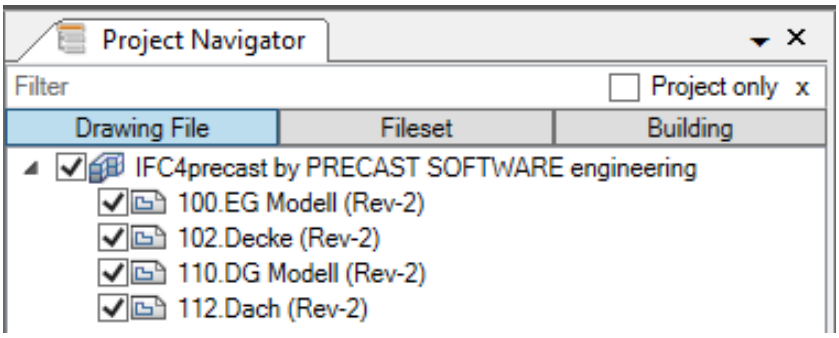


› After you have defined the import action, select all projects that you now want to finally transfer to the Tim database. This is done by checking the checkbox next to the project name and then clicking the "Apply changes" button.



NOTICE
Depending on the setting in the options, some steps can also be automated and thus not visible.

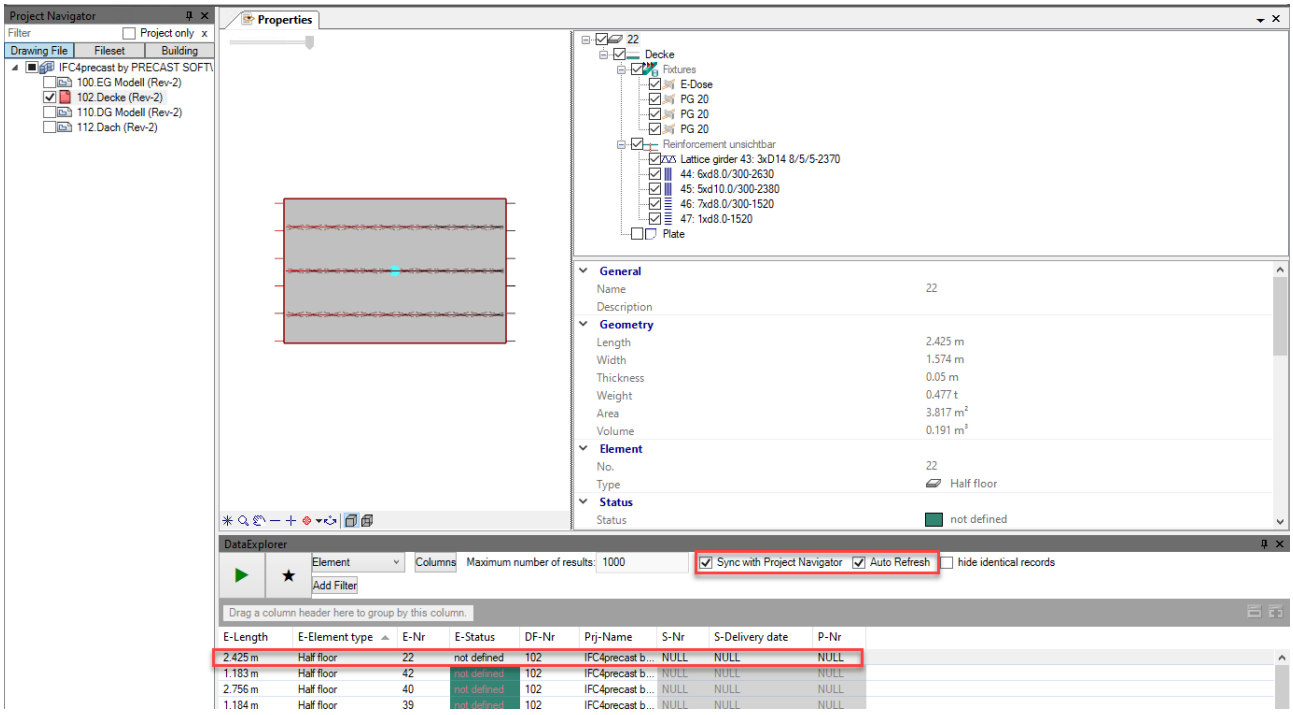
› After successful transfer, the data is available in the project navigator.



7.2 Features

The properties window shows different properties depending on which object is currently selected.

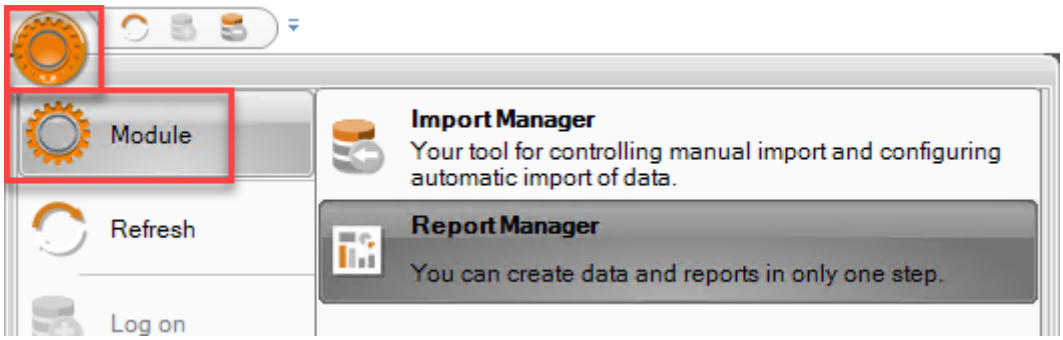
For example, if you have selected a precast element, you will see information in 3 areas (3D model, Topological structure, and Attributes).



NOTICE:
To have the elements in the DataExplorer displayed only for the project-related elements or to update them automatically, set both checkmarks as shown in the image above.

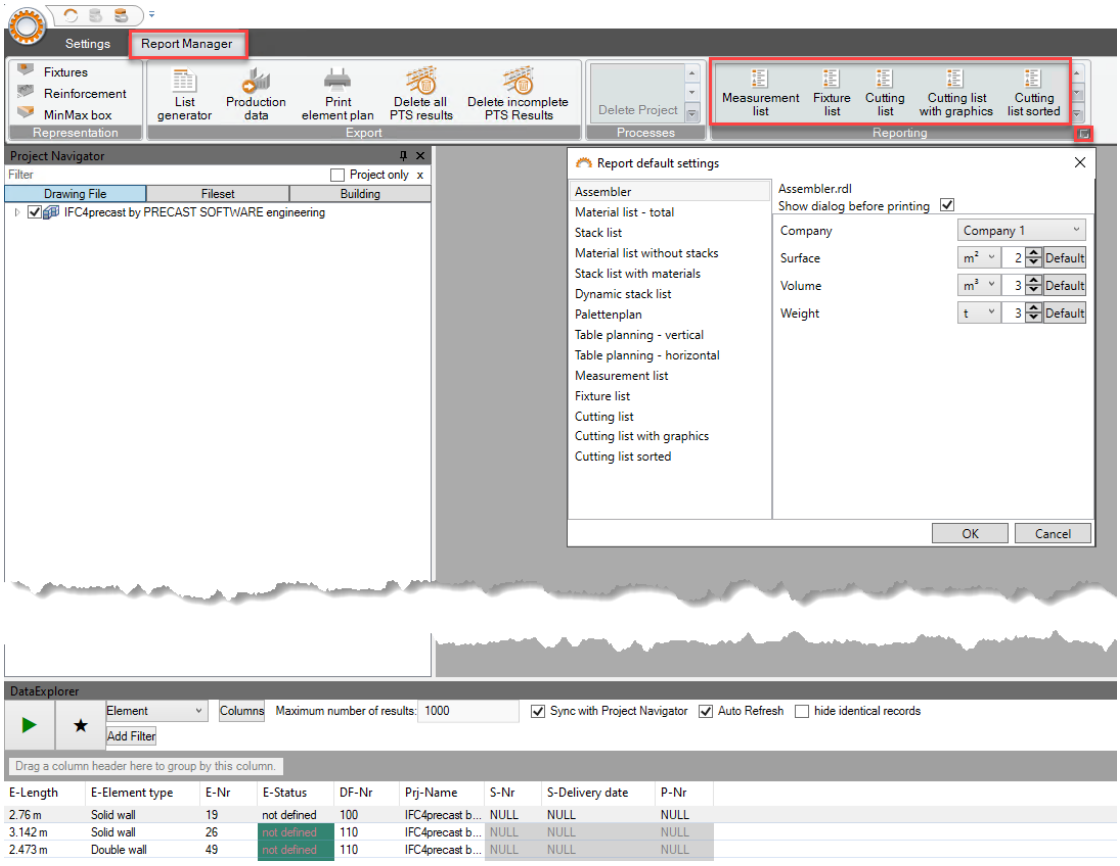
7.3 Report Manager

Switch to the "Report Manager" module:

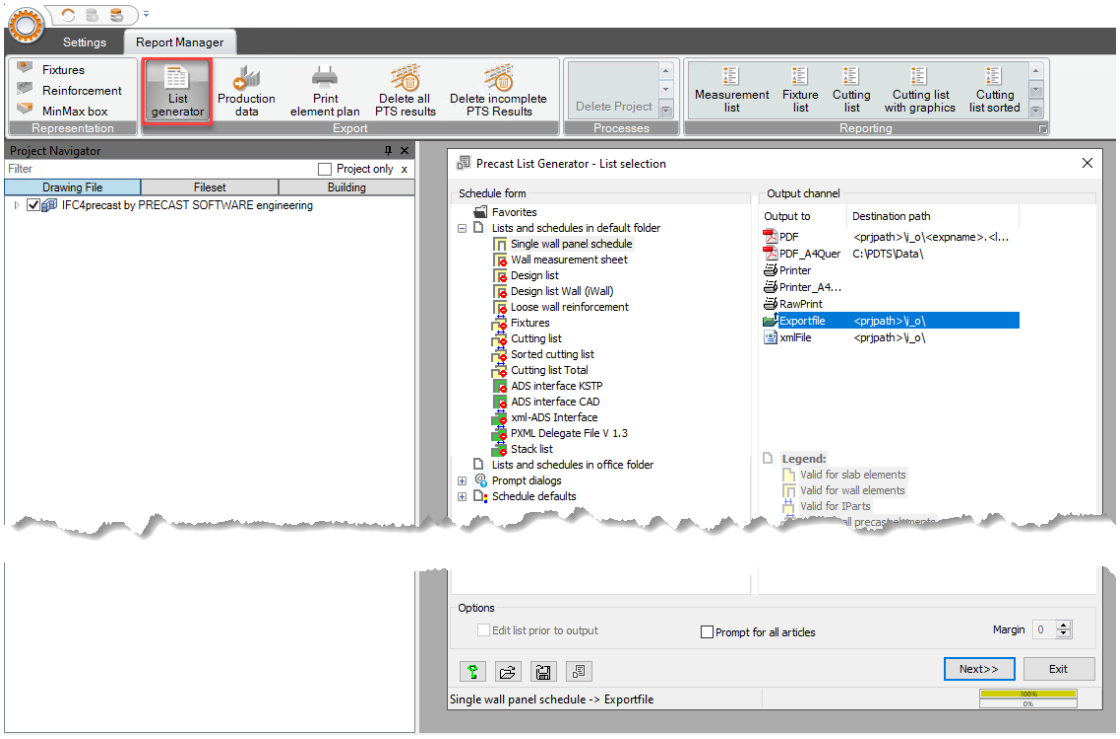


NOTICE:
The reports are available based on all modules.
Standard lists are e.g.: Measurement sheet, individual plate list, installation parts list, etc.
Batch reports (Delivery Manager) or even table allocation plan (Production Manager) can only be created in connection with the extensible modules.

7.3.1 Reports



7.3.2 List generator



NOTICE:
You may be familiar with the list generator from Planbar, in Tim Essentials it is structured identically.

Detailed information can be found in the detailed Tim help under Report Manager module.

8 TIM ESSENTIALS EXTENSIONS

Tim Essentials is modular and can be extended at any time. For example, with our "Delivery Manager" or our "Production Manager".

More detailed information about settings or functions can be found in the extensive Tim Help supplied or via our online help - http://mtimtest.precast-software.com:http://mtimtest.precast-software.com:7778/NetHelp.en/