



AXAVIA System administration

AXAVIAseries Desktop (ASD)

AXAVIAseries 7.1

AXAVIA Software GmbH

Hafenstr. 47-51

A-4020 Linz

www.axavia.com

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1-System requirements

Below you will learn the necessary, in our view necessary and meaningful hardware requirements for the operation of Axavia.

1.01-System requirements (minimum and recommended)

The AXAVIAseries will be made available as a download with the supplied installation routine.

Stand-Alone installation

Computer/processor: PC with Intel or compatible processor with 2 GHz or higher

Memory: at least 8 GB

Hard disk space: 10 GB for database, 2 GB for AXAVIAseries, 10 GB for document storage

Peripherals: graphics card with a resolution of 1280 x 1024 or higher (FullHD resolution recommended)

Operating system: Windows 7 SP1 (32/64 bit), Windows 8 (32/64 bit), Windows 8.1 (32/64 bit), Windows 10 (32/64 bit)

Database: Microsoft SQL Server Express or Microsoft SQL Server versions: 2008, 2008 R2, 2012, 2014, 2016, 2017

Additional programs: Microsoft Office 2010, 2013, 2016, 2019, Adobe Reader

Terminal Server (up to 10 users)

Computer/processor: PC with Intel or compatible processor with 2.8 GHz or higher

Memory: at least 8 GB (16 GB or more recommended)

Hard disk space: 10 GB for database, 2 GB for AXAVIAseries, 10 GB for document storage

Peripherals: graphics card with a resolution of 1280 x 1024 or higher (FullHD resolution recommended)

Operating system: Microsoft Windows Server versions: 2008 SP2 (32/64 bit), 2008 R2 SP1 (64-bit),
2012 (64 bit), 2012 R2 (64 bit), 2016 (64 bit), 2019 (64 bit)

Database: Microsoft SQL Server Express or Microsoft SQL Server versions: 2008, 2008 R2, 2012, 2014, 2016, 2017

Additional programs: Microsoft Office 2010, 2013, 2016, 2019, Adobe Reader

Terminal Server (more than 10 users)

For this type of installation, please contact our specialists

Network installation / server

Computer/processor: PC with Intel or compatible processor with 2.8 GHz or higher

Memory: 16 GB (32 GB or more recommended)

Hard disk space: 10 GB for database, 2 GB for AXAVIAseries, 10 GB for document storage

Peripherals: graphics card with a resolution of 1024 x 768 or higher (FullHD resolution recommended)

Operating system: Microsoft Windows Server versions: 2008 SP2 (32/64 bit), 2008 R2 SP1 (64-bit),
2012 (64 bit), 2012 R2 (64 bit), 2016 (64 bit), 2019 (64 bit)

Database: Microsoft SQL Server Express or Microsoft SQL Server versions: 2008, 2008 R2, 2012, 2014, 2016, 2017

Network installation / client

Computer/processor: PC with Intel or compatible processor with 2 GHz or higher

Memory: at least 2 GB (4 GB or more recommended)

Hard drive space: 2 GB for AXAVIAseries, 10 GB of document storage

Peripherals: graphics card with a resolution of 1280 x 1024 or higher (FullHD resolution recommended)

Operating system: Windows 7 SP1 (32/64 bit), Windows 8 (32/64 bit), Windows 8.1 (32/64 bit), Windows 10 (32/64 bit)

Additional programs: Microsoft Office 2010, 2013, 2016, 2019, Adobe Reader

Network installation / offline client

Computer/processor: PC with Intel or compatible processor with 2 GHz or higher

Memory: at least 8 GB

Hard disk space: 10 GB for database, 2 GB for AXAVIAseries, 10 GB for document storage

Peripherals: graphics card with a resolution of 1280 x 1024 or higher (FullHD resolution recommended)

Operating system: Windows 7 SP1 (32/64 bit), Windows 8 (32/64 bit), Windows 8.1 (32/64 bit), Windows 10 (32/64 bit)

Database: Microsoft SQL Server Express or Microsoft SQL Server versions: 2008, 2008 R2, 2012, 2014, 2016, 2017

Additional programs: Microsoft Office 2010, 2013, 2016, 2019, Adobe Reader

For special installation options, please contact our specialists for the optimal Auslegung Ihrer Infrastruktur.

Attention:

- For special program functions can more additional products as system requirements be necessary
- Microsoft SQL Server Express there are restrictions in terms of the manufacturer Database size and main memory usage!
- Please note all listed Microsoft products in the respective licensing condition, System requirements and restrictions of the manufacturer

1.02-Supported third-party program versions

The following program versions of third-party products are supported:

ABBYYFineReader:Version 11, 12

AutoVue:Version 19.*, 20.*

DataFox:Version 04.03.*

NavisWorksFreedom:Version 2016, 2017, 2020, 2021

NavisWorksManage:Version 2021

QlikView:Version 10, 11

AutoCAD:Version 2016, 2017, 2018, 2019, 2020, 2021

AutoCAD Plant:Version 2016, 2017, 2018, 2019, 2020, 2021

AutoDesk Inventor:Version 2016, 2017, 2018, 2019, 2020, 2021

AutoDesk DesignReview:Version 2013

DWG TrueView:Version 2016, 2017, 2020, 2021

SolidWorks:Version 2016, 2017, 2018, 2019, 2020, 2021

Microsoft Visio:Version 2007, 2013

Microsoft Office:Version 2010, 2013, 2016, 2019, Office 365

CimatronE:Version 12, 13, 14

BricsCAD:Version 17

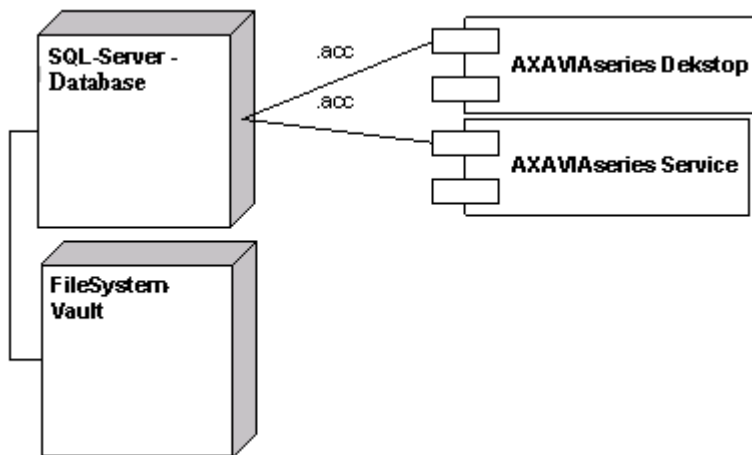
Microsoft Internet Explorer:ab Version 10

2-Application Architecture

Based on a relational database (MS-SQL), AXAVIAseries is a modular software system.

2.1-Overview

Various system components (AXAVIAseries desktop AXAVIAseries service, AXAVIAseries Server, Security Service)



Basically, the AXAVIAseries is a database product. This product is based on the database connection to an SQL server (versions 2000, 2005 and 2008, 2012, 2014).

There you will find all the information, including

What is a mask?

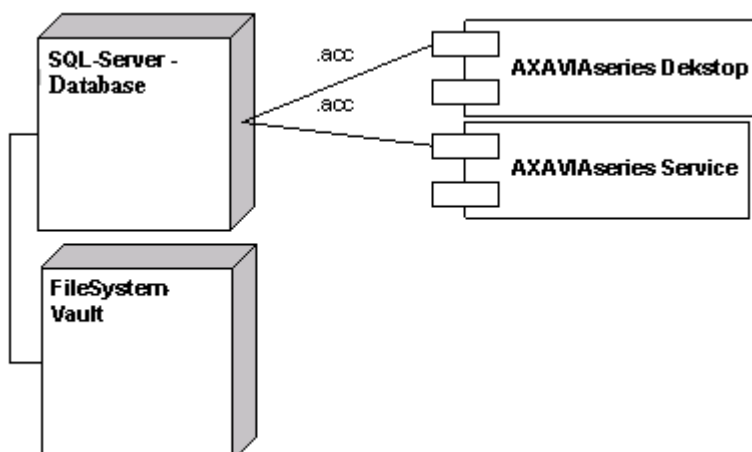
Which users are there?

Report data Scripts Service jobs, ...

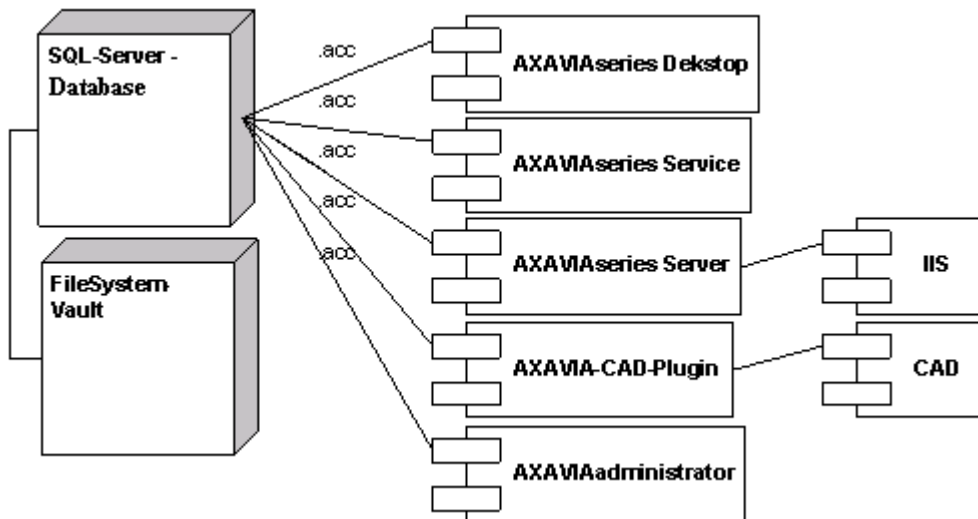
in the database at the database server.

For document management AXAVIAseries needs a vault in the file system. The path to this vault is stored in the database. In it, the files are stored. The files in the vault should only be accessed through / with AXAVIAseries.

The files could be accessed without Axavia, but strictly AXAVIA recommends to refrain.



Additionally to AXAVIAseries desktop and AXAVIAseries service, there are other applications in AXAVIAseries family that are listed in the following chart for the sake of completeness.



The applications of AXAVIAseries family are described in more detail in the following chapters.

2.2-AXAVIAseries desktop

The "AXAVIAseries Desktop" is a Windows application (a rich client) that connects to the database. This Windows application is the main operation basis for employees to work with. The "AXAVIAseries Desktop" provides access to the data structures and offers the different masks.

This software is installed on the client machines or on terminal servers.

Usually the "AXAVIAseries Desktop" is viewed as the application, because most issues can be edited here.

2.3-AXAVIAseries Service

"AXAVIAseries Service" is a "MS Windows" service that is willing to do background work:

full-text indexing of documents and data structures in the database,

notification via email,

free scripts that can be started at a time-controlled or event-based file system and so on.

2.4-AXAVIAseries Server

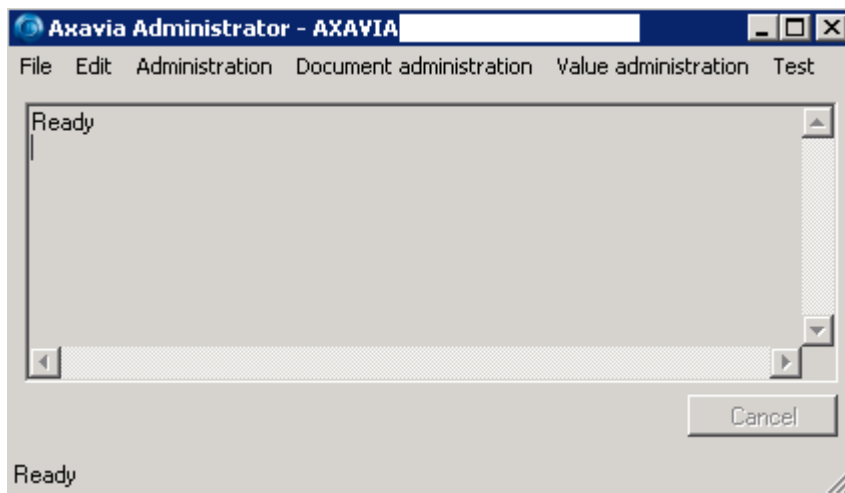
AXAVIAseries Server is an application platform for AXAVIAseries applications based on an IIS (MS Internet Information Server). Here are web applications organized so that the "workbench" may be extended beyond the home LAN. Thus, remote employees, customers or suppliers can also be integrated into the data processes.

2.5-AXAVIAseries Administrator

AXAVIAseries administrator is a standalone tool for special maintenance and repair functions.

The administrator can be started in the installation directory of AXAVIAseries (AXAVIA Administrator.exe).

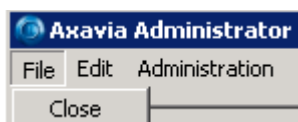
ATTENTION: The functions of the AXAVIA administrator may only be used after consultation with a customizer or support of AXAVIA.



Most functions are aimed to be used by employees of AXAVIA (internal developers).

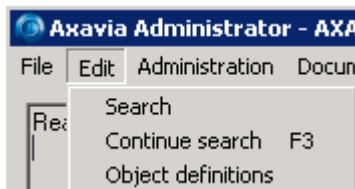
2.5.01-File (Menu)

In the "File" menu, there is only the "Exit" function for the "AXAVIA Administrator".



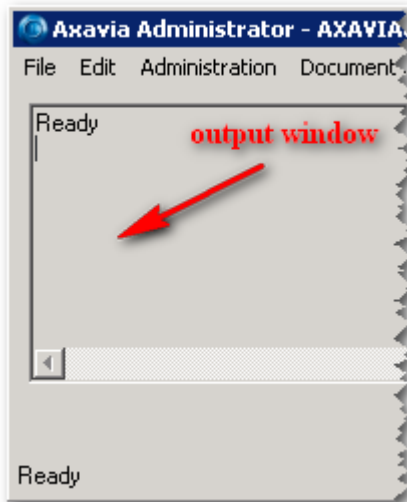
2.5.02-Edit (Menu)

The menu "Edit" contains the following functions:



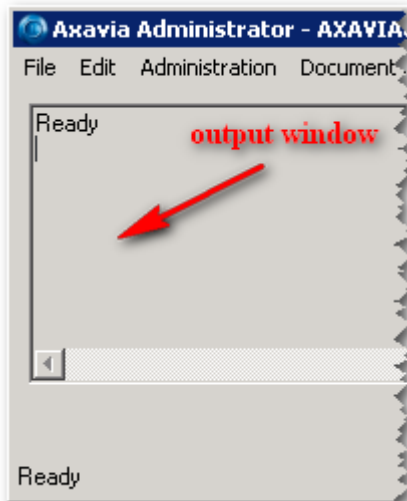
2.5.02.01-Search (menu item)

Search for a text in the output window.



2.5.02.02-Continue search (menu item)

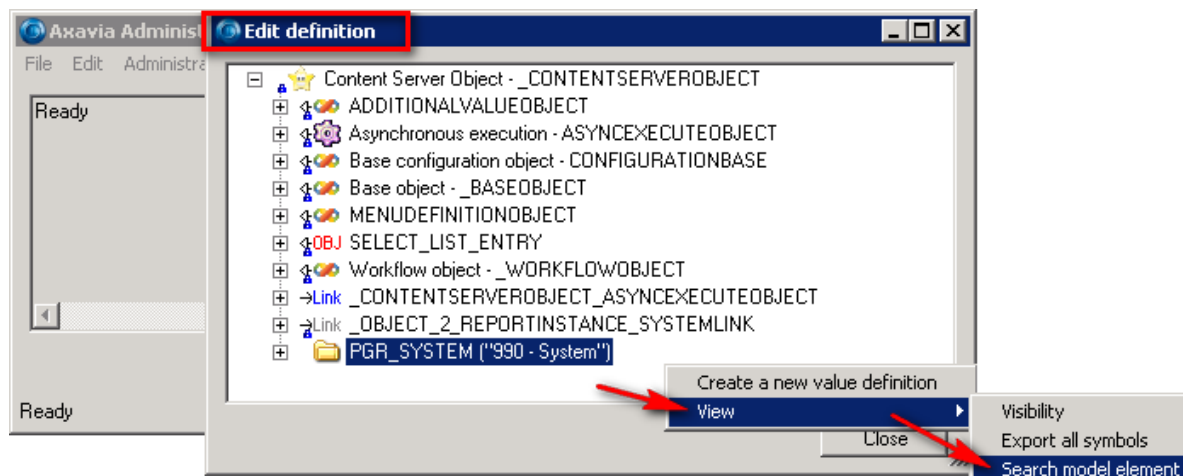
Continue search for a text in the output window.



2.5.02.03-Object definitions (menu item)

Starts the model tree for the processing of the data model.

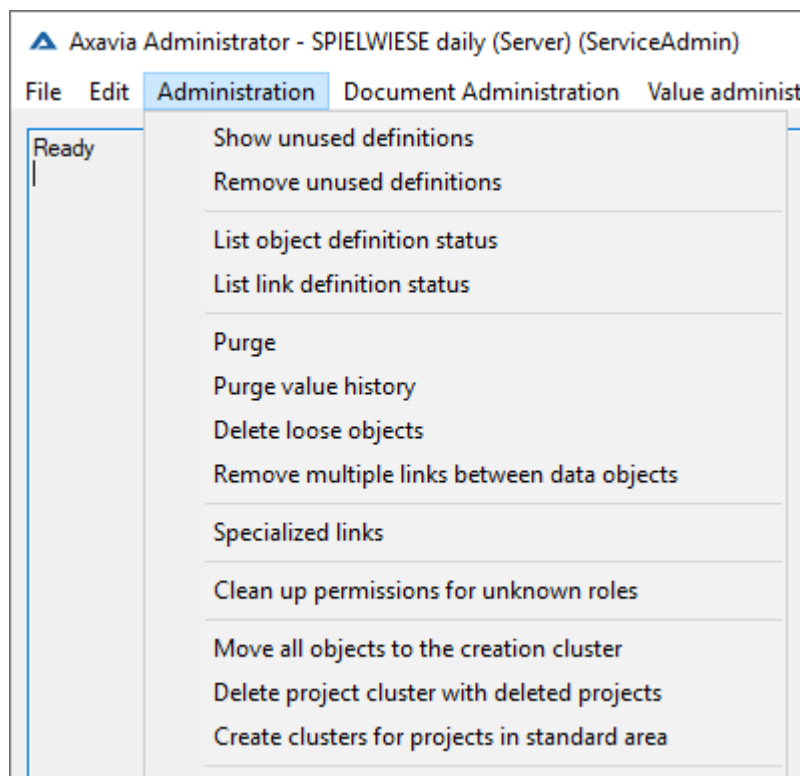
To enable the search function in the model editor, do a right-click in a blank area -> "view -> Search model element".



Note: It is more comfortable to do such activities in the "AXAVIADeveloper"-viewschema in Axavia.

2.5.03-Administration (Menu)

The menu "Administration" contains the following functions:



2.5.03.01-Show unused definitions (menu item)

Lists all existing object definitions and link definitions without any existing objects or links in this database.

2.5.03.02-Remove unused definitions (menu item)

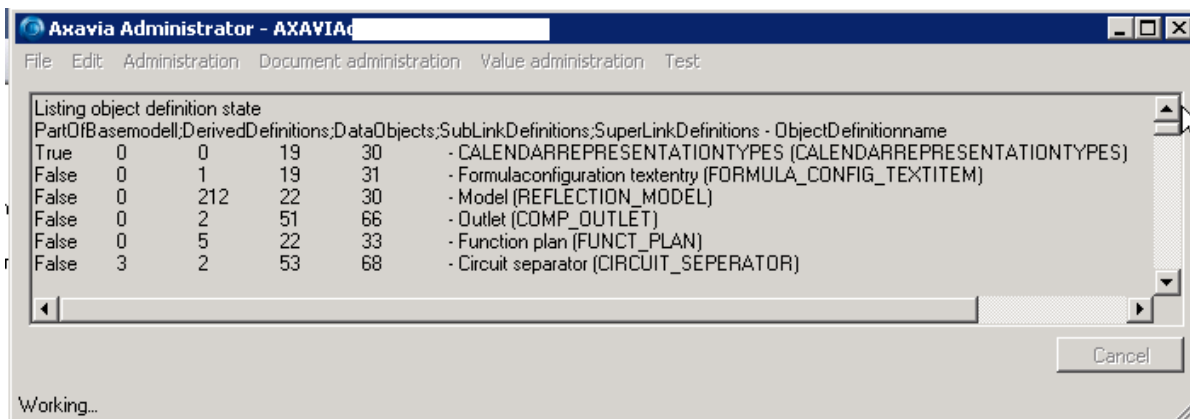
ATTENTION: The function may only be used after consultation with AXAVIA.

Deletes all existing object definitions and link definitions for which no objects or links exist in this DB.

NOTE: This does not necessarily mean that these definitions, which have not been used so far, will not be used in the future.

2.5.03.03-List object definition status (menu item)

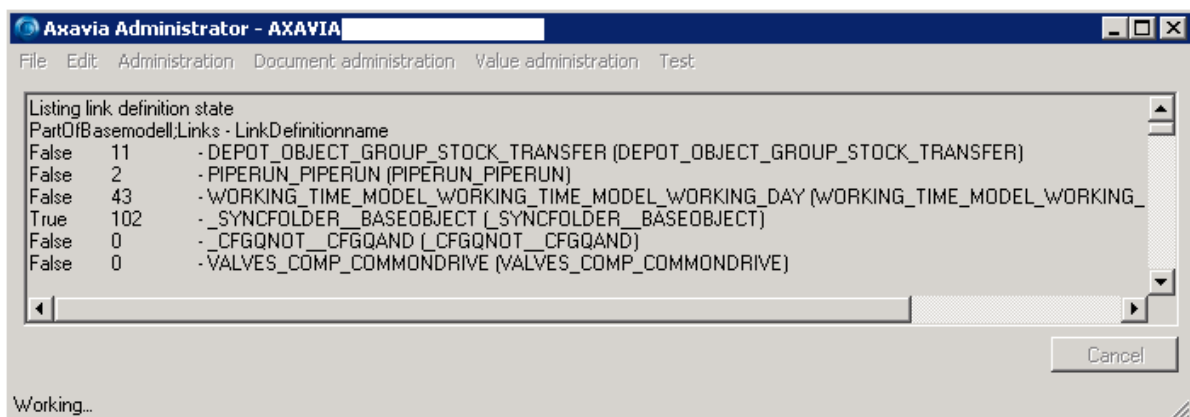
Lists all existing object definitions and gives the following information:



- PartOfBasemodell: Is the definition part of the base model?
- DerivedDefintions: Shows how many object definitions are derived from this definition.
- Data Objects: Shows how many objects of this type are existing in the database.
- SubLinkDefinitions: Shows how many sub-link definitions can be this object definition. Say how many different Verbindungen to child objects are possible.
- SuperlinkDefinitions: Indicates how many superlink definitions exist for this object definition. That means, how many different links to parent objects are possible.
- ObjectDefinitionname: name of the object definition

2.5.03.04-List link definition status (menu item)

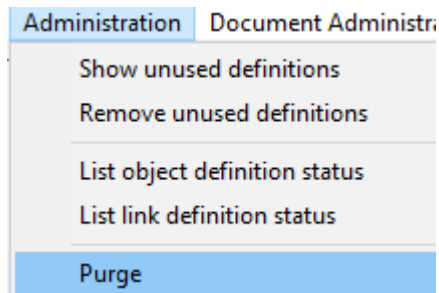
Lists all existing link definitions and gives the following information:



- PartOfBasemodell: Is the definition part of the base model?
- Links: How many links of that link definition exist in this database.
- LinkDefinitionName: Name of the definition

2.5.03.05-Purge (menu item)

Removes all objects from the database that are marked as "deleted".



Objects are only marked as deleted when they are deleted in AXAVIAseries and remain in the database. With this command these objects marked as "deleted" are finally removed from the database. This does NOT include the files on the file system (extension ".\$del\$").

These \$DEL\$ - files should then also be deleted under Windows (via BAT file or similar).

CAUTION:

This function can take a lot of time depending on the amount of data and nobody should be logged on to the database during this time.

Furthermore, storage space is needed where the LOG file of the database is located. Usually this is at the same place, as the DB.

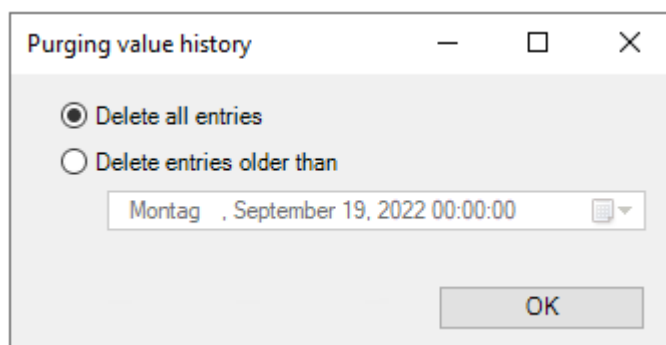
At the location of the LOG file should be at least as much free as the DB is large, better even more.

After emptying, the LOG file must also be reduced in size again.

2.5.03.06-Purge value history (menu item)

If there is a value history at properties, you can delete all or only entries older a certain time.

You can choose at a prompt window.



2.5.03.07-Delete loose Objekts (menu item)

ATTENTION: The function may only be used after consultation with AXAVIA.

Deletes all objects of a certain object definition which have no connection (parent or child) to other objects.

2.5.03.08-Clear multilinks between dataobjects (menu item)

Search for multiple connections of the same link type between objects and adjust them.

2.5.03.09-Spezialize links (menu item)

ATTENTION: The function may only be used after consultation with AXAVIA.

This function is used to specialize existing links if subsequently a more "specific" linkdefinition is created between 2 objects, additionally to the linkdefinition defined at their base object.

An example of this would be:

A general linkdefinition between MECHANICALASSEMBLY and MECHANICALPART with link type 0 is specialized with a link definition between MECHANICALASSEMBLY and MECHANICAL_COMPONENT with link type 0.

First, the desired linkdefinition must be chosen.

2.5.03.10-Clean up permissions for unknown roles (menu item)

ATTENTION: The function may only be used after consultation with AXAVIA.

If there exists role-based permissions on objects for roles no longer present in the database, this permissions can be deleted using this function.

2.5.03.11-Move all objects to the creation cluster (menu item)

ATTENTION: The function may only be used after consultation with AXAVIA.

For each object definition, a creation cluster can be defined. This function moves all objects of this object definition to their creation cluster, if they are not already there.

2.5.03.12-Delete project cluster with deleted projects (menu item)

ATTENTION: The function may only be used after consultation with AXAVIA.

If a project is deleted, the associated "project cluster object" is deleted also. If this clusterobject is not deleted by any reason, it can be deleted with this function.

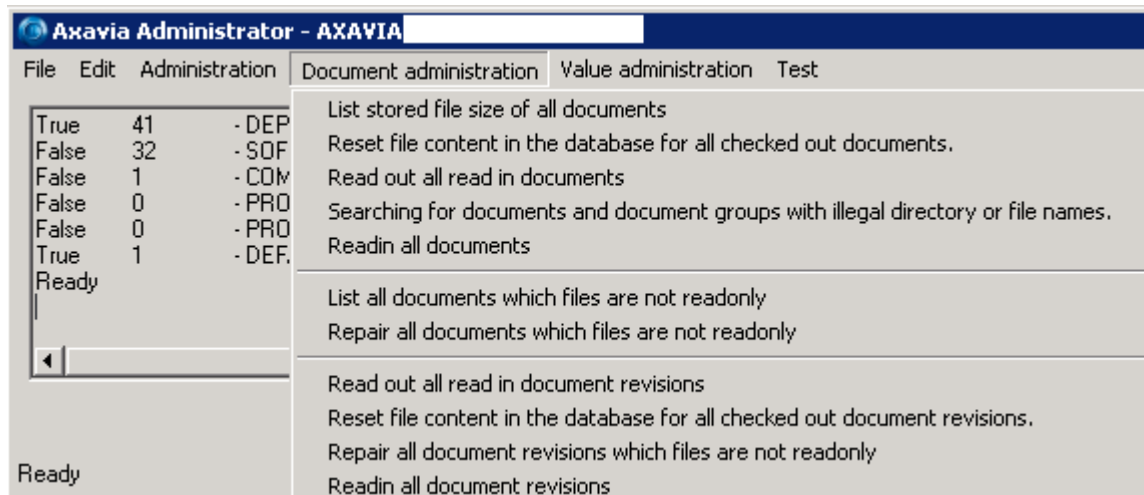
2.5.03.13-Create cluster for projects in standard area (menu item)

ATTENTION: The function may only be used after consultation with AXAVIA.

Ususally, projects are in the projects cluster (<10000). If projects created in standard cluster, they don't have an project cluster. With this function, you can create an own project cluster for such projects.

2.5.04-Document administration (Menu)

The menu "Document administration" contains the following functions:



2.5.04.01-List stored filesize of all documents (menu item)

Lists the stored file size of all documents in the database.

Shows all documents with their file size in DB, label and path.

2.5.04.02-Reset file content in the database for all checked out documents (menu item)

For all documents that were read in once in the database and are now read out, there is allocated memory in the database. This storage is cleared with this function.

2.5.04.03-Read out all read in documents (menu item)

All documents, read in into the database, will be read out to the filesystem (vault) with this function.

2.5.04.04-Searching for documents and document groups with illegal directory or file names (menu item)

Lists all documents that have a non-existent (illegal) path.

2.5.04.05-Read in all documents (menu item)

All documents that are read out to the file system, are read in with this function in the database.

2.5.04.06-List all documents which files are not readonly (menu item)

When documents are "read in" into the database, the associated files should be read-only on the file system in order to avoid inconsistencies.

With this function, you can find those that are not write-protected.

2.5.04.07-Repair all documents which files are not readonly (menu item)

When documents are "read in" into the database, the associated files should be "read-only" on the file system to avoid inconsistencies.

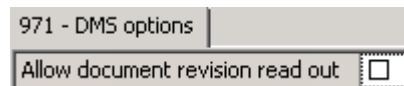
This function searches for all files that are not read-only and sets them back to read-only.

ATTENTION: Before this action, be sure to check with "List of all imported documents whose files are not write-protected" whether such documents exist! If yes, the content of the file in the base directory must be checked manually with the content stored in the database!

Otherwise there is the danger that an old state is written over the more current state of the file system.

2.5.04.08-Read out all read in document revisions (menu item)

Normally document versions are always "read in" the database. This can, however, be changed by setting an option (at ROOT in tab list "971-DMS options" at the field "Allow document revision read out (ALLOW_DOCREV_READOUT)"), so that document revisions can be read out.



If this is configured so, all document revisions can be "read out" on the file system with this function.

2.5.04.09-Reset file content in the database for all checked out document revisions (menu item)

For all documents revisions that were once "read in" into the database and now are "read out", there is allocated memory in the database. This memory is cleared with this function.

2.5.04.10-Repair all document revisions which files are not readonly (menu item)

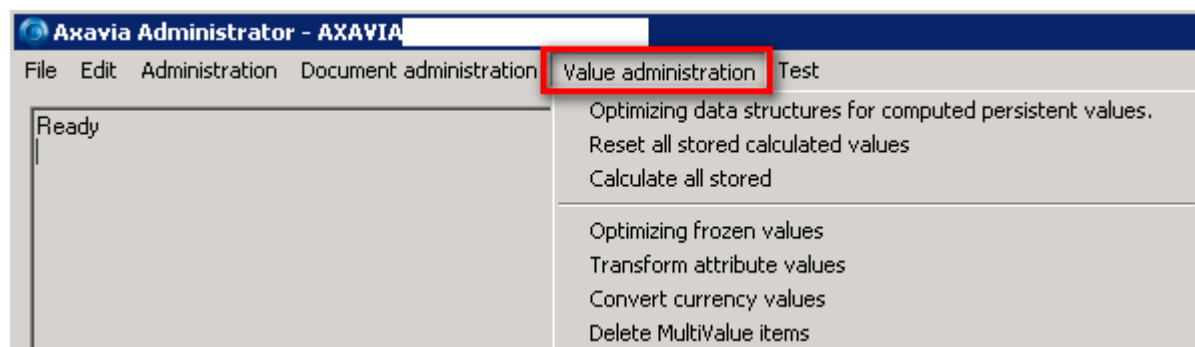
This function sets the write-protection for document revisions, saved on the file system, back to "read-only", if they are "read in" into AXAVIA, but do not have write protection.

2.5.04.11-Read in all document revisions (menu item)

All document revisions that were "read out" to the file system, are "read in" into the database with this function.

2.5.05-Value administration (Menu)

The menu "Value administration" contains the following functions:



2.5.05.01-Optimizing data structures for computed persistent values (menu item)

Each calculated stored value contains additional information, which must be considered when updating such a value.

For example, which other values, depending on the current value, must be updated if the current value is updated. This additional information sometimes has been saved not optimal in earlier versions (prior to 2015).

With this function, these values can be optimized, which can have a positive effect on the database size in older databases.

2.5.05.02-Reset all stored calculated values (menu item)

Resets all stored calculated values in the database, so they are recalculated during the next use and stored again.

This may be necessary if the stored calculated values do not correspond to what the result should be.

2.5.05.03-Calculate all stored calculated values (menu item)

Note: at the moment, the name of the menu item ist incomplete in the tool itself.

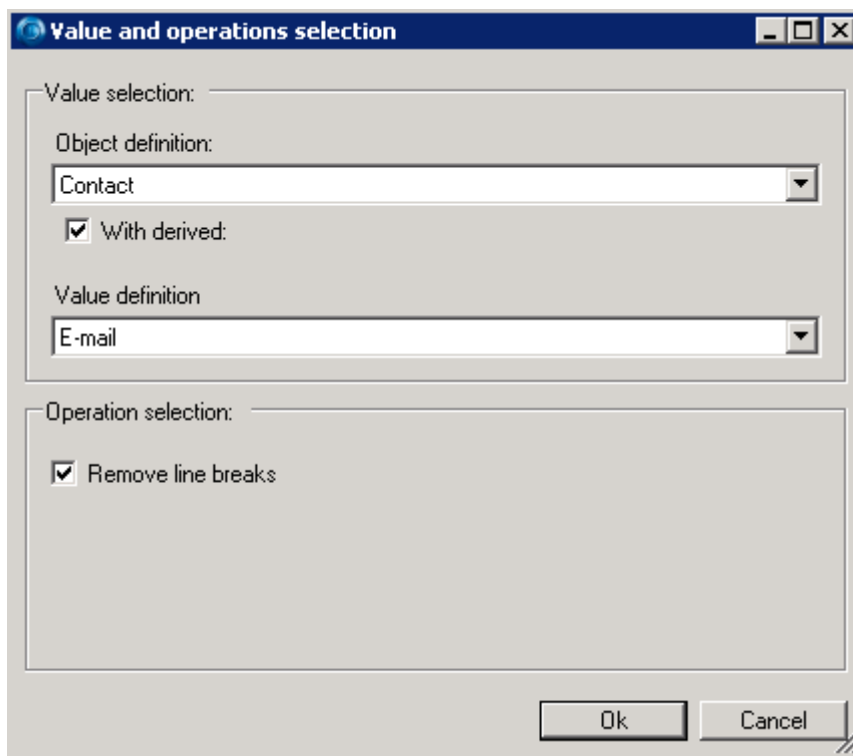
Calculates and stores all stored calculated values that are not yet saved.

2.5.05.04-Optimizing frozen values (menu item)

With these options, the type of storage of the frozen values is optimized. In previous releases (prior to 2015), the default values were additionally stored in the stored calculated values what increased the database size. By optimizing the frozen values the existing stored default values are discarded.

2.5.05.05-Transform attribute values (menu item)

With this function, line breaks can be removed from the field contents, where no line breaks should be.



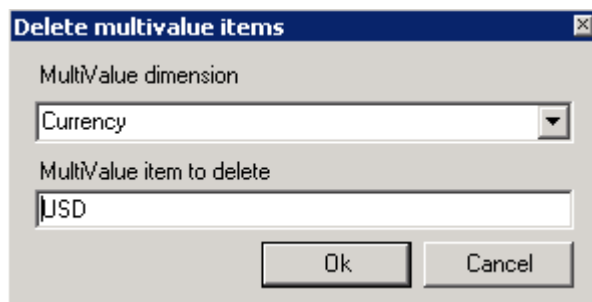
2.5.05.06-Convert currency values (menu item)

Converts all unit fields with the unit "€" in currency fields (multivalue fields "currency").

If there are currency fields, which can not store multiple values, then this function can convert those fields into multivalue fields.

2.5.05.07-Delete MultiValue items (menu item)

Deletes selected multivalue entries for a specific multivalue-definition in the database.



2.5.06-Test (Menu)

2.5.06.01-Test values (menu item)

Checks all fields in the database to see if the reading of the value returns an error.

NOTE: This function takes a lot of time and database performance. Do not use during worktime.

2.5.07-Appendix: Reindex database + compress

After database maintenance with "AxaviaAdministrator" you should also compress the database to keep the size of the database as small as possible.

After compressing, you should also recreate the most important indexes, as these also increase the database size over time, but most importantly, reducing the size of the database increases the index fragmentation!

Source:

<https://docs.microsoft.com/de-de/sql/relational-databases/databases/shrink-a-database?redirectedfrom=MSDN&view=sql-server-ver15>

When compressing, one distinguishes between the LOG file of the database and the data file.

The necessary steps are listed below.

2.5.07.1-Compress database

This can be done via SQL script in SQL Management Studio, but it is more convenient to have the SQL script run by batch file.

Example:

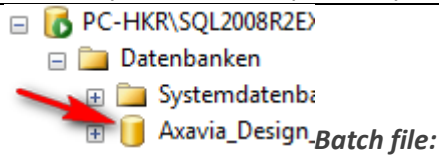
SQL Script: "DBShrink.sql"

```
--before reorganizing indexes!
USE yourDB;
Go
dbcc shrinkdatabase (yourDB, NOTRUNCATE)
Go
dbcc shrinkdatabase (yourDB, TRUNCATEONLY)
Go
--TRUNCATE causes index fragmentation!
--Alternative: Value in % for remaining free memory after shrink
DBCC SHRINKDATABASE (yourDB, 5)
```

Go

```
--The execution of DBCC DBREINDEX is an offline operation,
--i.e. the table is locked for the time of execution and
--Users cannot access it. Therefore, this
-- operation outside normal operating hours.
```

Note:"myDBName" is replaced by the actual name according to SQL Managementstudio

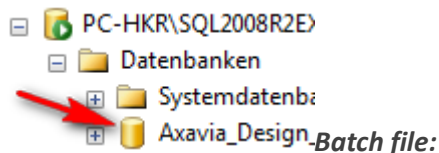


```
REM -L = list servers; -S server name; -E = Trusted connection; -i input file; -o Output
file
osql -S PC-HKR-SQLSERVER2008R2 -E -i D:-TEST-DBShrink.sql
```

Note:You may need to specify the path to the "osql" file. If the parameter "-E" does not work, please omit and include the user and password for logging on to the server.

```
REM should not work 'osql', specifying the path to EXE e.g.: "C:"Program Files"Microsoft SQL
Server-100-Tools-binn-SQLCMD. EXE"
REM should not work 'osql', specifying the path to EXE e.g.: "C:"Program Files"Microsoft SQL
Server-100-Tools-binn-OSQL. EXE"
REM -U axavia -P axavia -L = list servers; -S server name; -E = Trusted connection; -i input
file; -o Output file
REM -E cannot be used with -U and -P!
osql -U axavia -P axavia -S PC-HKR-SQLSERVER2008R2 -E -i D:-TEST-DBShrink.sql
```

2.5.07.2-Reindex database index/indexes



```
REM -L = list servers; -S server name; -E = Trusted connection; -i input file; -o Output
file
osql -S PC-HKR-SQLSERVER2008R2 -E -i D:-TEST-DBreindex.sql
```

Note:You may need to specify the path to the "osql" file. If the parameter "-E" does not work, please omit and include the user and password for logging on to the server.

```
REM should not work 'osql', specifying the path to EXE e.g.: "C:"Program Files"Microsoft
SQL Server-100-Tools-binn-SQLCMD. EXE"
REM should not work 'osql', specifying the path to EXE e.g.: "C:"Program Files"Microsoft
SQL Server-100-Tools-binn-OSQL. EXE"
REM -U axavia -P axavia -L = list servers; -S server name; -E = Trusted connection;
-i input file; -o Output file
REM -E cannot be used with -U and -P!
osql -U axavia -P axavia -S PC-HKR-SQLSERVER2008R2 -E -i D:-TEST-DBreindex.sql
```

2.5.08-\$del\$ - delete files in the base directory

In a command prompt with admin privileges:

```
del /F /S *.$del$
```

2.5.09-Example of maintenance steps of the database

In order to optimize and reduce the size of the database, the following steps could be performed annually:
(see also General Performance Tips)

With the tool "AxaviaAdministrator.exe":

C:\Program Files (x86)\AXAVIA\AXAVIAseries\Axavia Administrator.exe

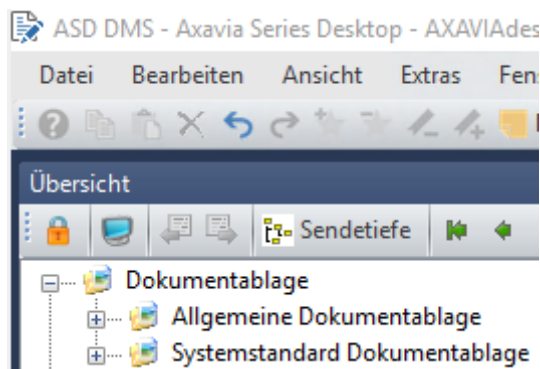
1.Document Administration (Menu)

1.1. "Search documents and document folders with illegal file/directory name".

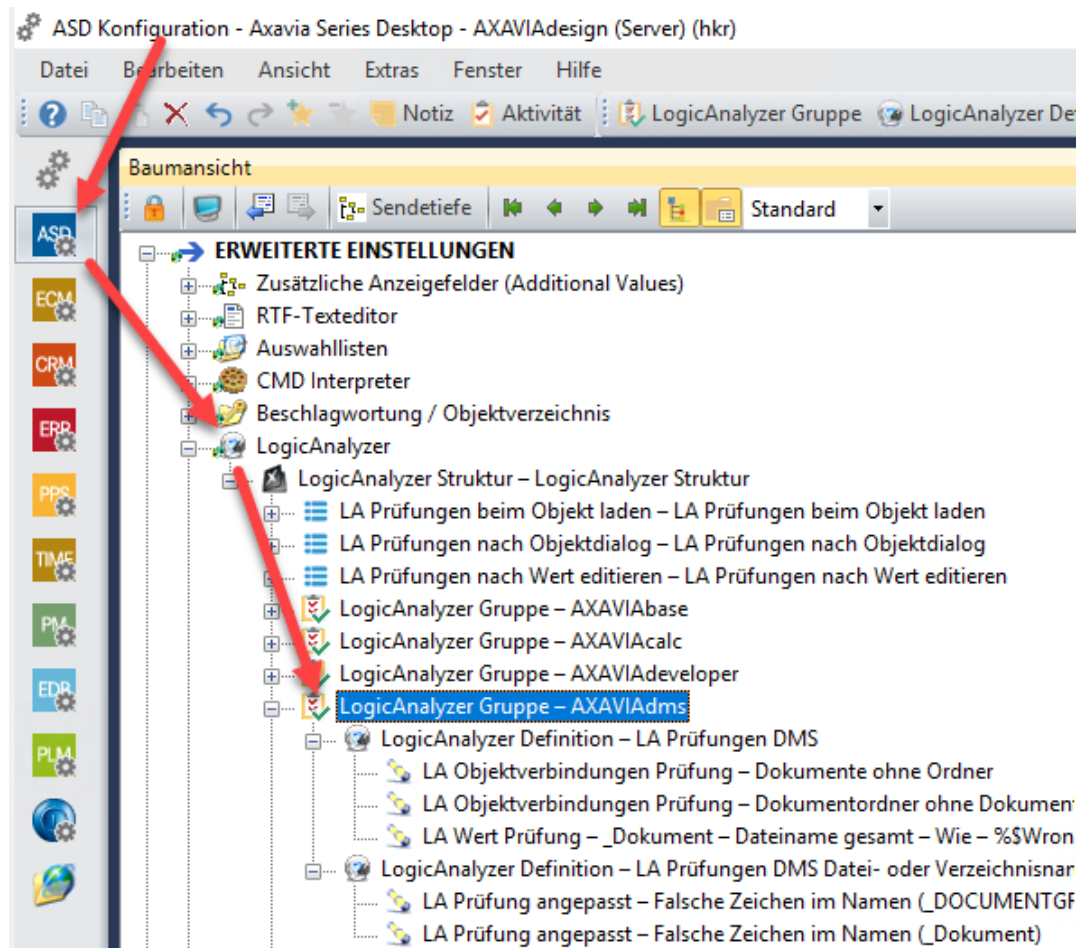
1.1.1.Correct incorrect paths for documents in AXAVIA!

If you get results here, the affected documents should be moved back to one of the Axavia base folders.

be linked to one of the Axavia base folders within the "document repository".



or the "LogicAnalyzer" checks are started to perform the correction:



- 1.2. "Rectify all imported documents whose files are not read-only".
 - 1.3. "Correct all read-in document revisions whose files are not read-only".
 - 1.4. "Read out all read-in documents".
 - 1.5. "Empty the file memory in the DB for all read out documents".
- 2.administration (menu)
 - 2.1 "Clean up multiple links between objects (menu item)".
 - 2.2. "Delete project areas with deleted projects (menu item)".
 - 2.3. "Empty recycle bin (menu item)".

In "SQL Mangement Studio":

(see chapter "Appendix: Compress database")

1. compress database
2. reindex database index/indexes

Under Windows: Delete the "\$del\$" - files (are used by Axavia to restore documents in case of a CTRL+Z)
"\$del\$" - delete files in the base directory".

The most important functions of the administrator tool can also be called by service job.

(see API example for administrator functions "ServiceJob with administrator functions").

```
public Boolean ExecuteJob(ServiceJob job, out String errorMsg)
{
    errorMsg = null;

    //Aufruf der MessageBox
    string bodyText = "Soll der 'Administrator.exe - Job' tatsächlich gestartet werden?\nWICHTIG:\nEs darf NIEMAND mit der Datenbank arbeiten! Auch kein Dienst!"; //Frage in MessageBox, ohne Übersetzungen
    //bodyText = this.Translate("Servicejob_AdministratorExe_AskExecution"); //Frage in MessageBox, MIT Übersetzungen
    string header = "'Administrator.exe - Job' ausführen"; //Text in der Fensterleiste
    if(this.App.RegisteredIODelegates.MessageShower != null)
    {
        IODelegates.MessageResult messageBox =
this.App.RegisteredIODelegates.MessageShower(bodyText, header, IODelegates.MessageInputs.YesNo, IODelegates.MessageType.Question);

        if (messageBox == IODelegates.MessageResult.No) // IODelegates.MessageResult.Yes
        {
            cancel = true;
            return true; //weitere Anweisungen
        }
        else if(messageBox == IODelegates.MessageResult.Yes)
        {
            cancel = false;
        }
    }

    this.App.Administration.RepairAllReadInDocumentsWithWrongFileState();
    // this.App.Administration.RepairAllReadInDocumentRevisionsWithWrongFileState();
    // this.App.Administration.ReadOutDocumentsWithValidFolders();
    // this.App.Administration.ResetFileContentForAllReadOutDocuments();
    //
    // this.App.Administration.DeleteAllValueHistoryEntriesBeforeDate(DateTime.Now.AddMonths(-2));
    // this.App.Administration.DeleteAllValueHistoryEntries();
    // this.App.Administration.RemoveMultipleLinksBetweenDataObjects();
    // this.App.Administration.DeleteProjectClustersWithDeletedProject();
    // this.App.Administration.CleanupAllDeletedObjects();

    return true;
}
```

2.6-AXAVIAseries Content Connector

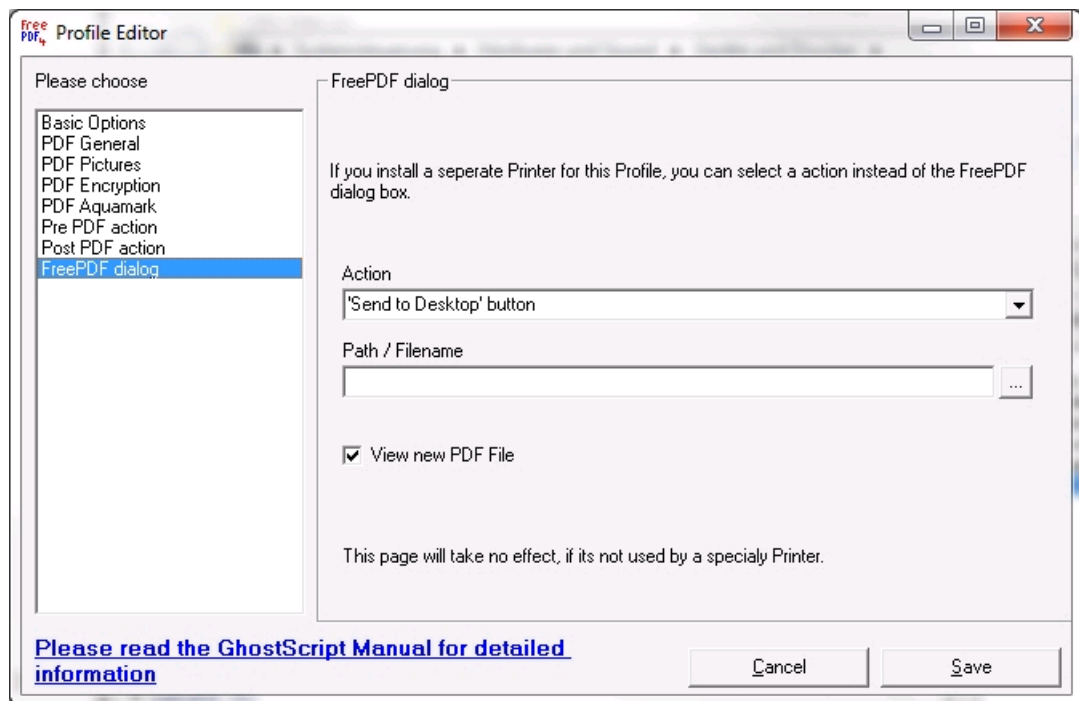
AXAVIA offers plug-ins for different systems. Depending on implementation, these plugins also need access to the AXAVIAseries - database.

2.6.1-Create View Document / Convert to pdf

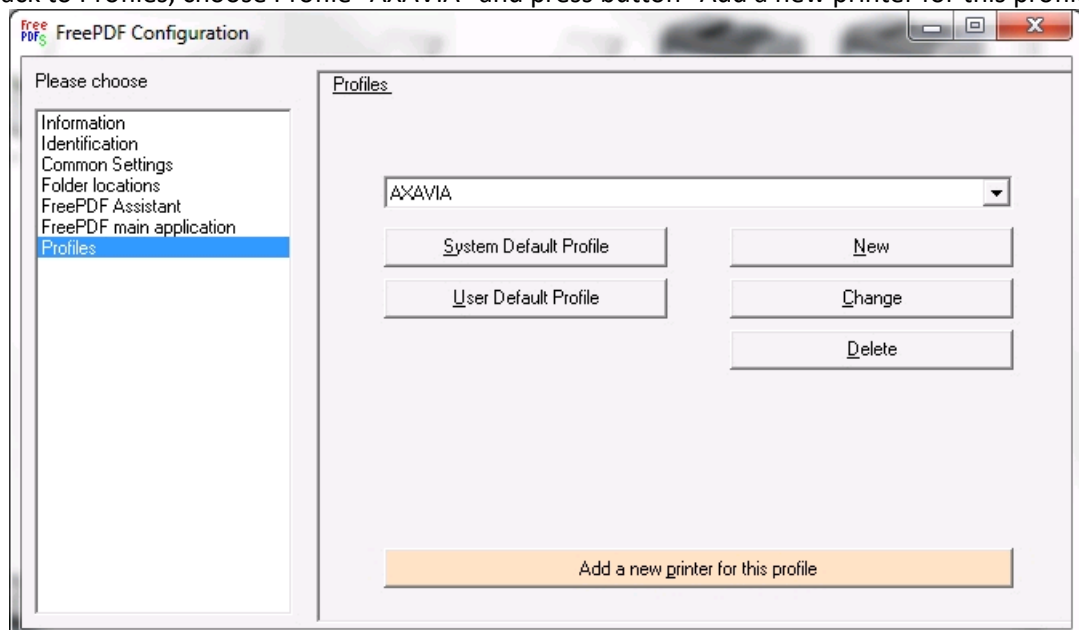
To create view documents of any kind, a FreePDF printer driver is necessary. To create views documents of MS Word/Excel - documents satisfies an installed MS Office (32bit) version.

The following procedure:

- Install FreePDF (admin-rights necessary)
- start "fpconfig.exe" by "run as administrator" from the installation directory of FreePDF (C:\Program Files(x86)\FreePDF_XP)
- At "Profiles" creating a new profile (AXAVIA):
 - mark "For all users"
 - output format "pdfwrite"
- At "FreePDF dialogue" choose " 'Send to Desktop' button" as desired option



- Select Back to Profiles, choose Profile "AXAVIA" and press button "Add a new printer for this profile"



Rename printer in the printers window in Windows to "FreePDF XP".



3-Installation Instructions

Please make sure you have the necessary administrator rights on your server/pc/laptop where you want to perform the installations.

We will need the MS Windows function "Run as Administrator" and therefore the associated password.

3.2-Microsoft SQL Server

For the operation of the "Microsoft SQL database" according to Axavia you need an appropriate version of "Microsoft SQL Server".

If you have already installed an instance, you can use this existing one. Then skip the steps of installation.

Continue with chapter "SQL Server Management Studio Express ([02 – SQL Server Management Studio Express](#))".

IMPORTANT:

Never install the SQL Server on the same server as MS Exchange Server is running. This is very bad for the performance if the database because MS Exchange Server needs a lot of memory and harddisk access.

3.2.1-Microsoft SQL Server (Example Installation)

Before you can install AXAVIAseries, you need to install e.g. a Microsoft SQL Server 2008/2012/2014. Depending on the application and number of users you should decide for the appropriate version. For testing and evaluation the Express versions are excellent, but have in productive operation several important restrictions (depending on the SQL Server Express version).

IMPORTANT:

It should be especially pointed out the maximum database size of 10 GB with the Express Editions!

Be sure to download a version WITH "Microsoft SQL Management Studio"!

So use one of these files (or similarly named):

"SQLEXPADV_*.exe"

or

"SQLEXPWRT_*.exe"

The MS SQL Server is available here in a free Express version:

Microsoft® SQL Server® 2008 Express

<http://www.microsoft.com/de-de/download/details.aspx?id=1695>

or

Microsoft® SQL Server® 2012 Service Pack 2 (SP2) Express

<http://www.microsoft.com/de-de/download/confirmation.aspx?id=43351>

File: SQLEXPWRT_x64_DEU.exe (or the 32 bit version, if necessary).

or direct link:

http://download.microsoft.com/download/1/A/8/1A8770A8-C504-461D-BF4E-5E4EF6AA6CB72/SQLEXPWRT_x64_DEU.exe

or

Microsoft® SQL Server® 2014 Express (DE)

<http://www.microsoft.com/de-de/download/details.aspx?id=42299>

Microsoft® SQL Server® 2014 Express (EN)

<http://www.microsoft.com/en-us/download/details.aspx?id=42299>

Which version fits your requirement, you will have to decide on the basis of differences (technical and price).

To get an overview of the limitations and capabilities, please visit the appropriate Microsoft websites.

Please compare the technical details of SQL Server editions:

<https://msdn.microsoft.com/library/cc645993.aspx>

3.2.1.1-

3.2.1.1.01-MS SQL Server Setup

Run the downloaded file and follow the message windows during installation.

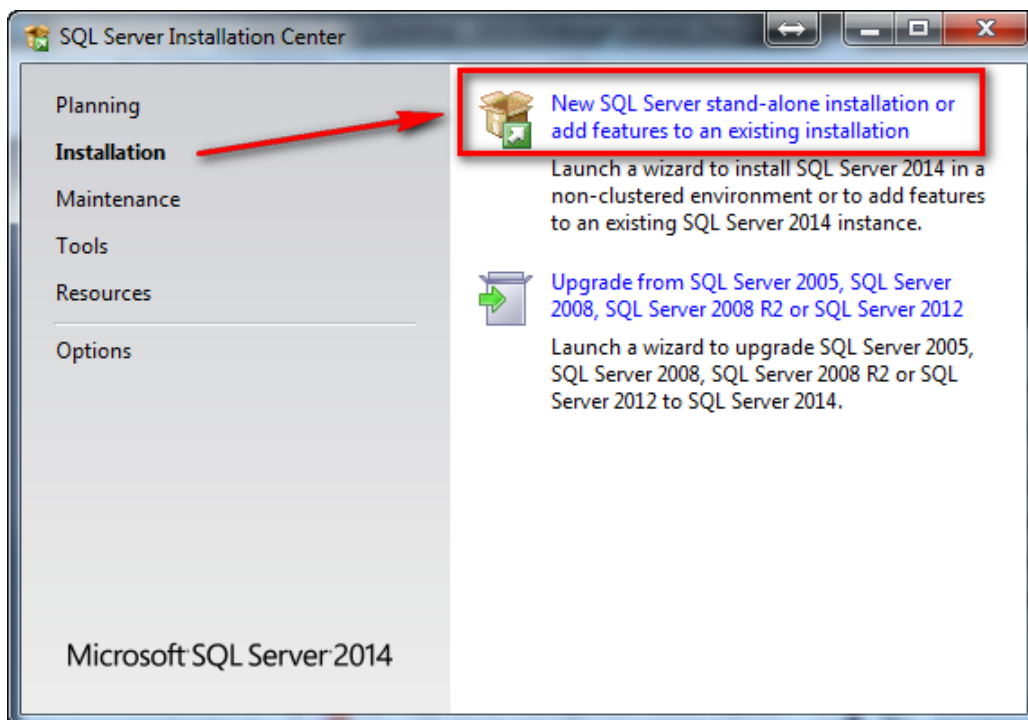
If during the installation of the SQL Server the following error message occurs, the "Language and Region" of the PC must be changed, because Microsoft does not support your regional settings:

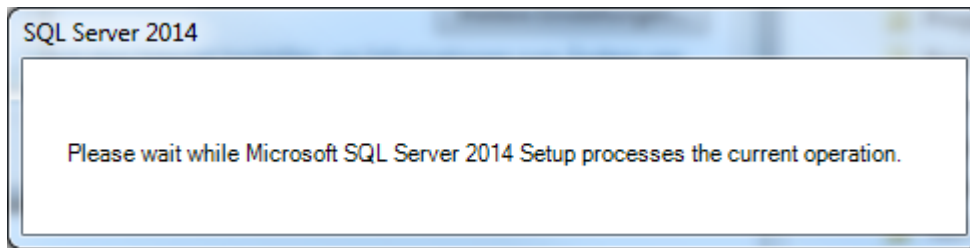


[DataObject:b3543b4d-a149-4d46-9cf7-d2b5b419fe48](#)

Since the "SQL Server Setup", for example, The "Region and Language" - setting "German (Austria)" is not supported on Windows, the setting "German (Germany)" can be chosen to avoid this message.

In the "SQL Server Installation Center", select "New SQL Server stand-alone installation ...".





For further information and screenshots of the installation please have a look at chapter "Hands on experience... ([99 – Hands on experience: Installation SQL-Server Express 2014 EN](#))"

3.2.1.1.02-License acceptance

Accept the licence terms.

3.2.1.1.03-Feature selection

Choose the features you need.

3.2.1.1.04-Instance configuration

Give a name at "named instance" and remember this name, it is needed later for logon at the SQL Server.

3.2.1.1.05-Server configuration

The services should start automatically, especially the "browser".

3.2.1.1.06-Database configuration

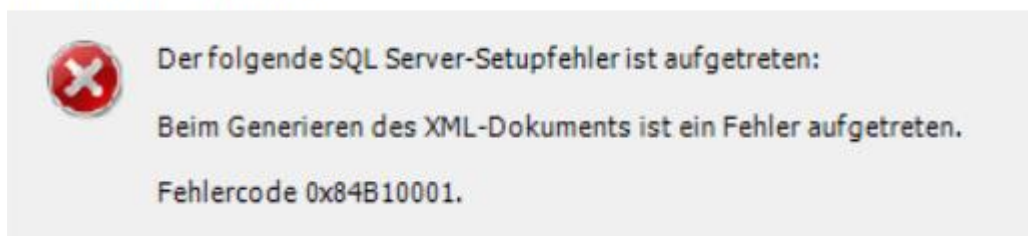
It is important to set the "authentication mode" to "mixed mode", because it is needed for login to the databases via Axavia.

3.2.1.1.07-Reporting services (configuration)

Select "default/standard", if there is no "MS Sharepoint" in use.

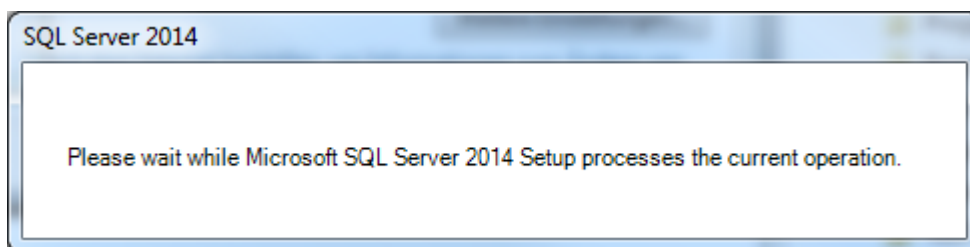
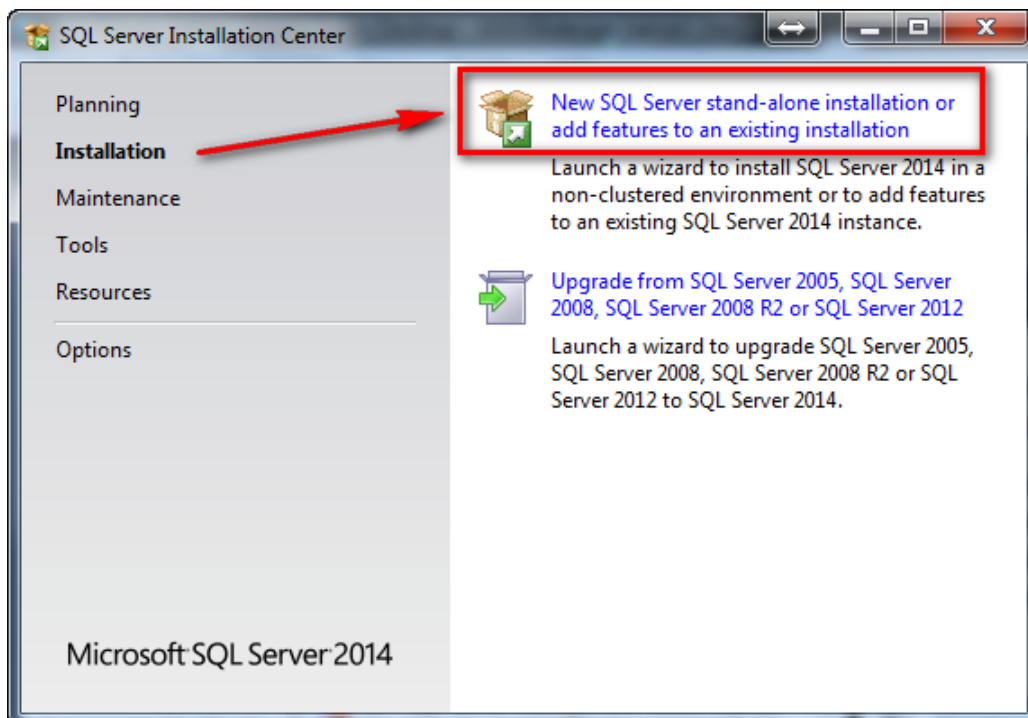
3.2.1.1.97-

SQL Server-Setupfehler.

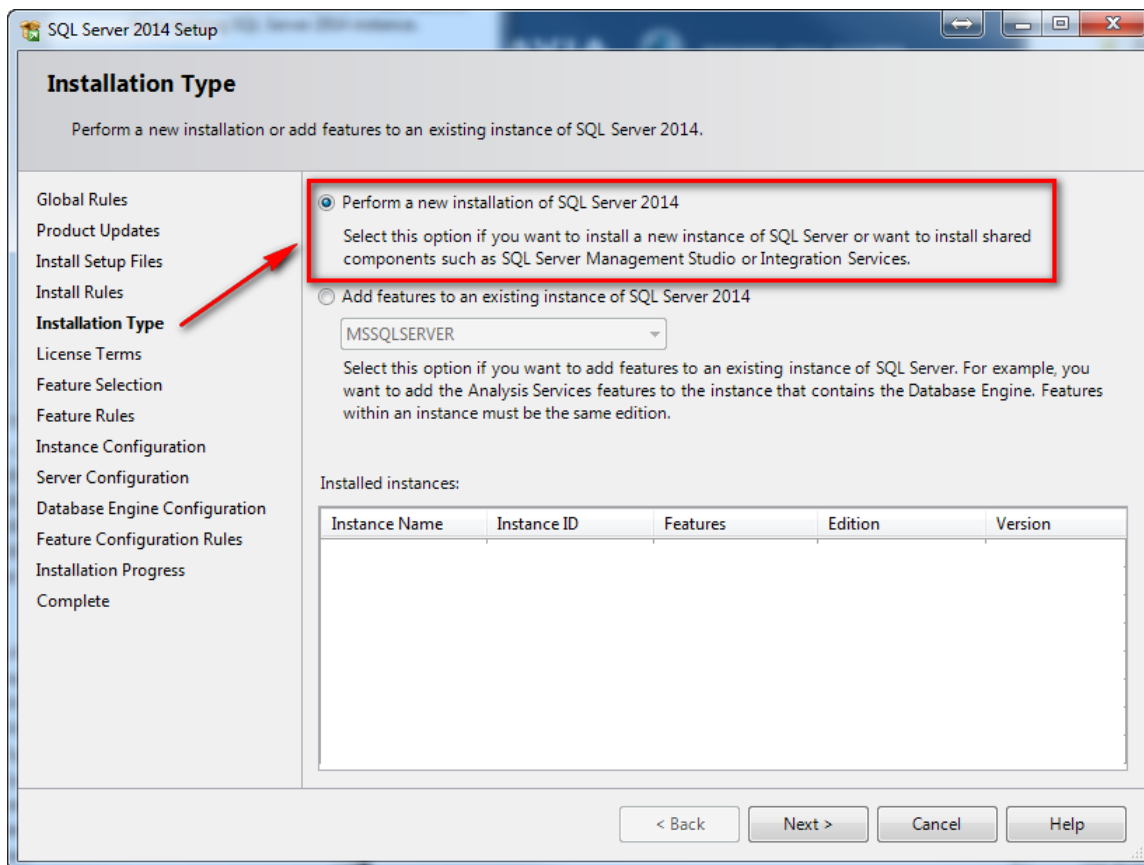


3.2.1.1.98-Hands on experience: Installation SQL-Server Express 2014 EN

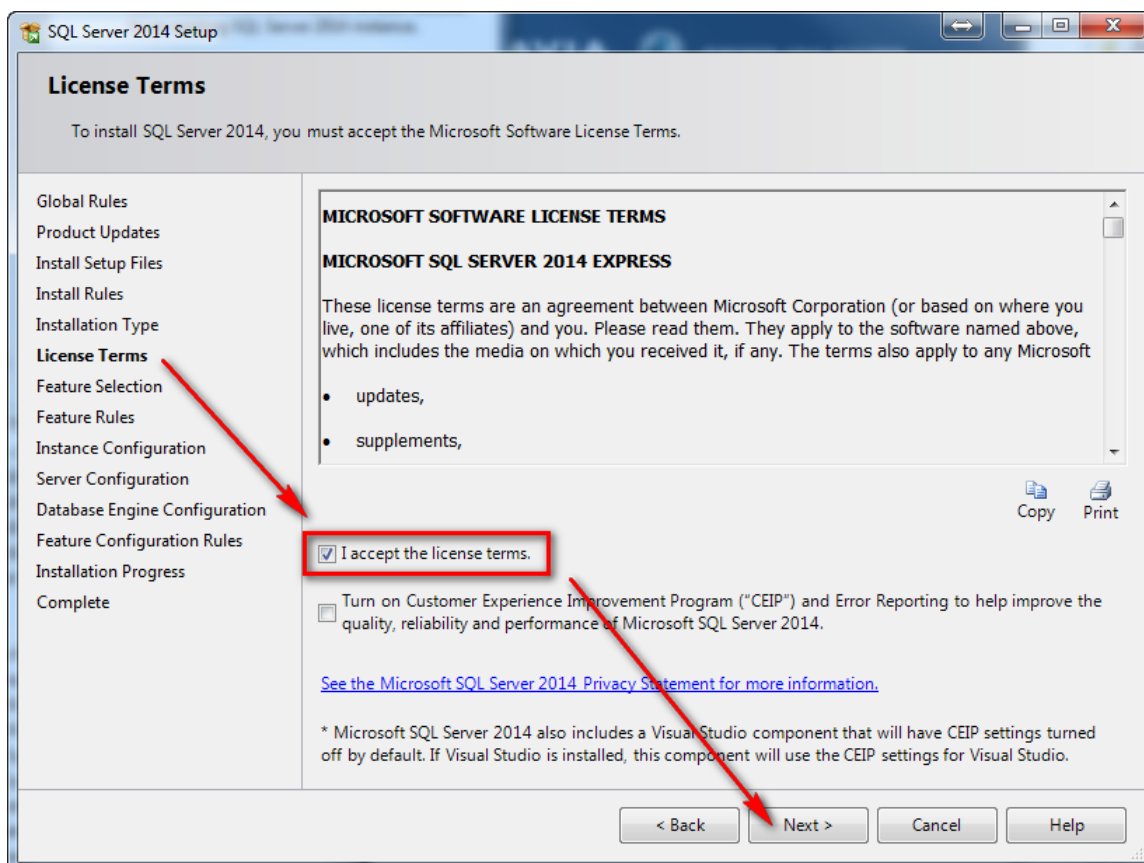
In the "SQL Server Installation Center", select "New SQL Server stand-alone installation ...".



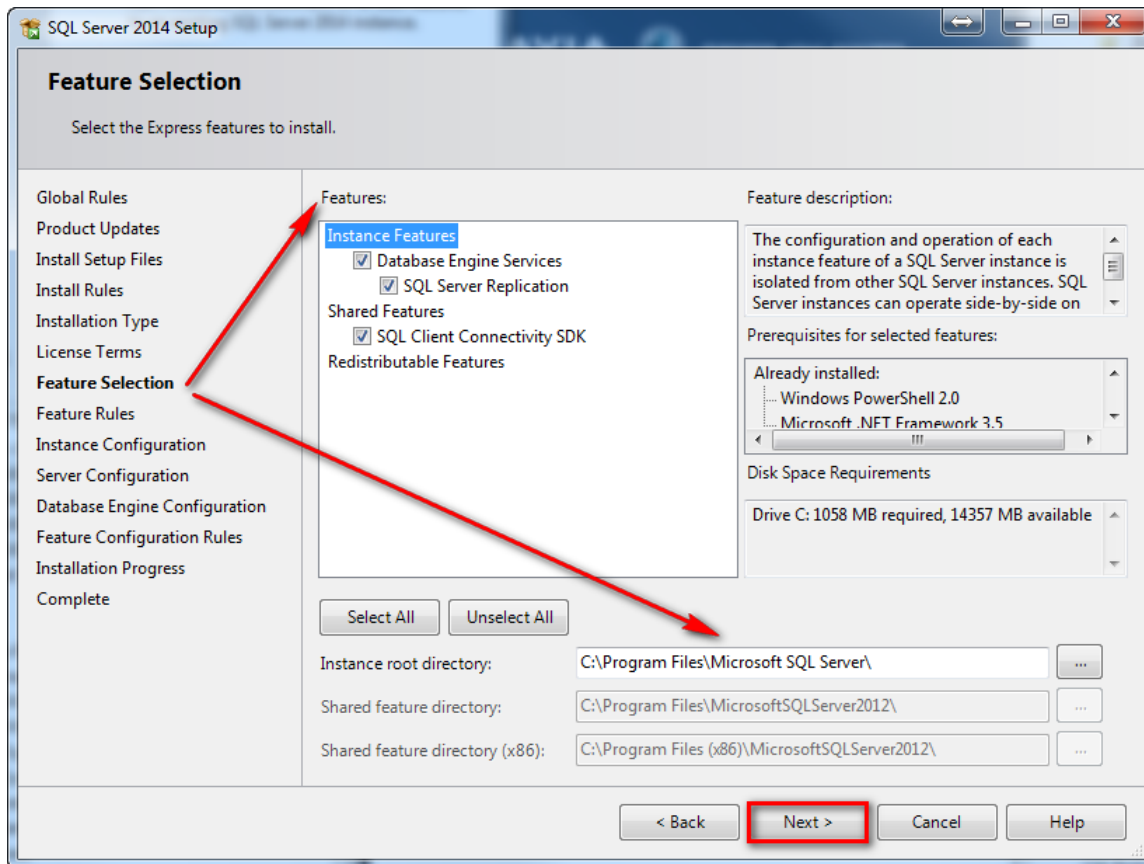
Next choose the type of Installation:



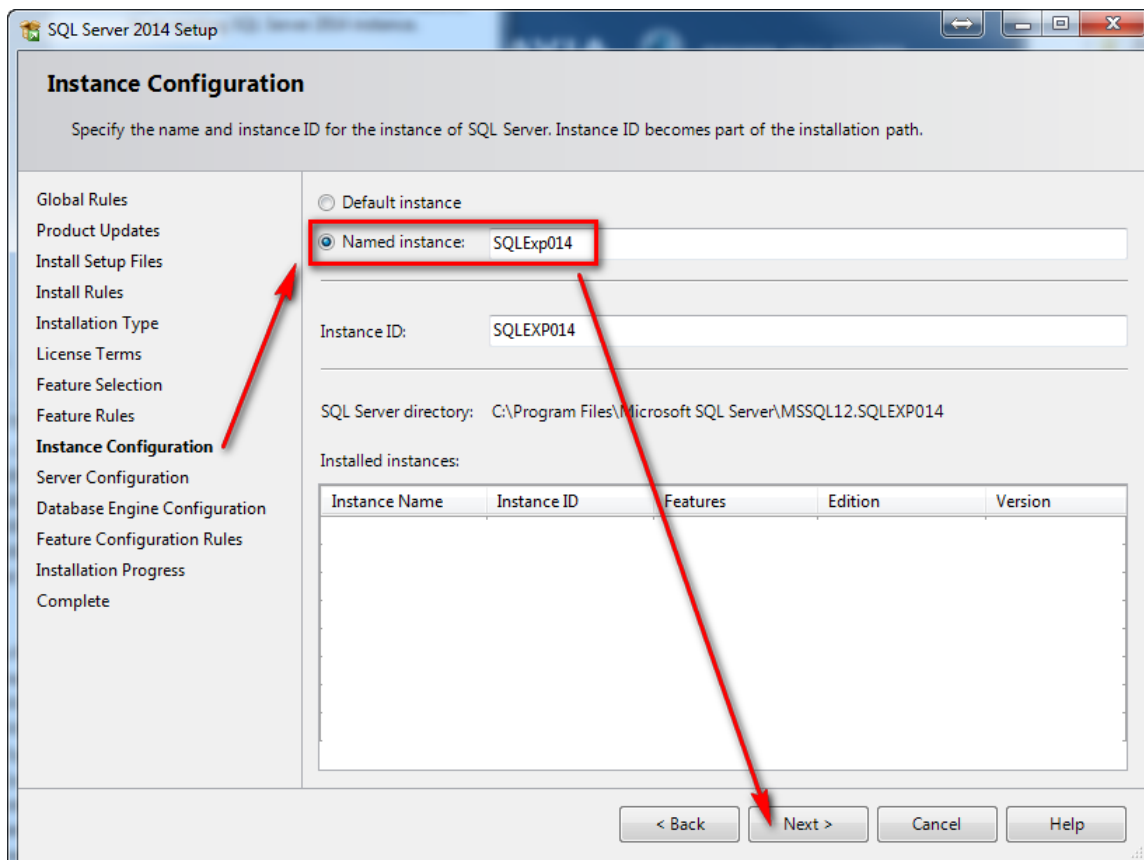
accept the license terms...



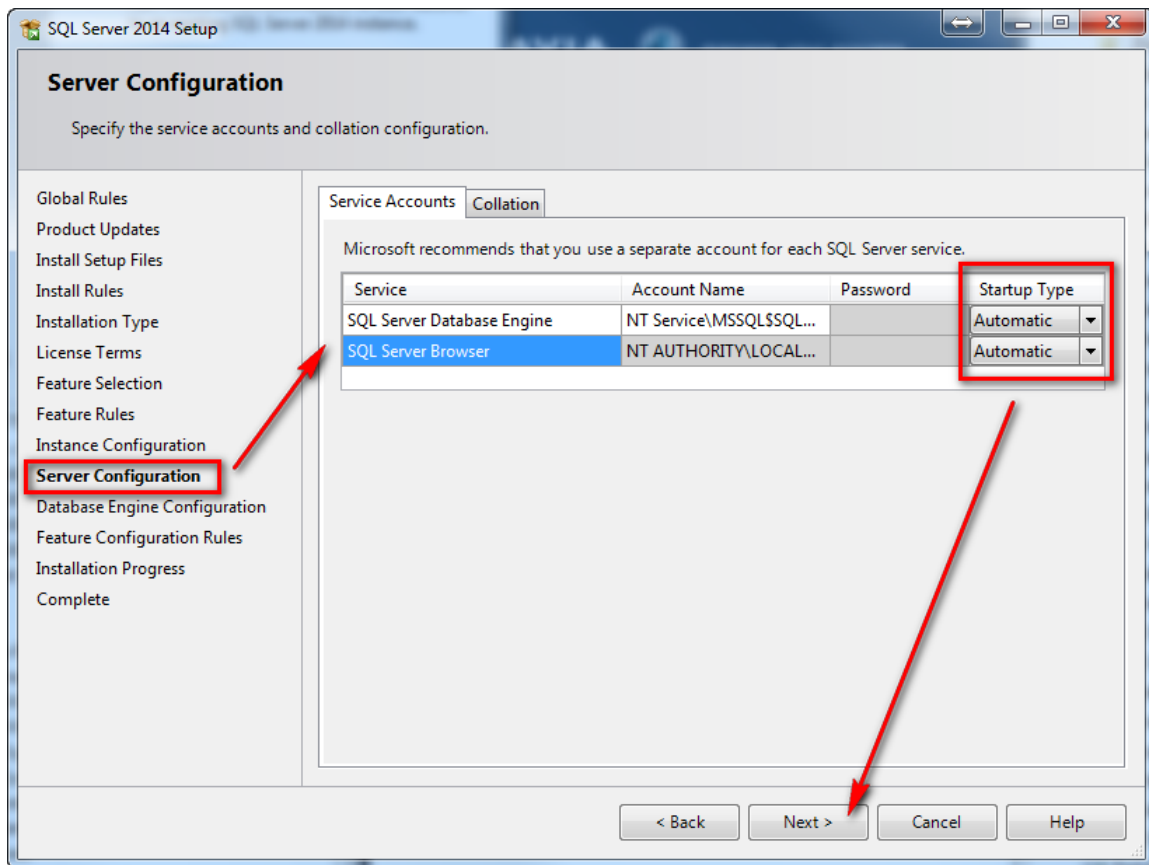
select the desired features...



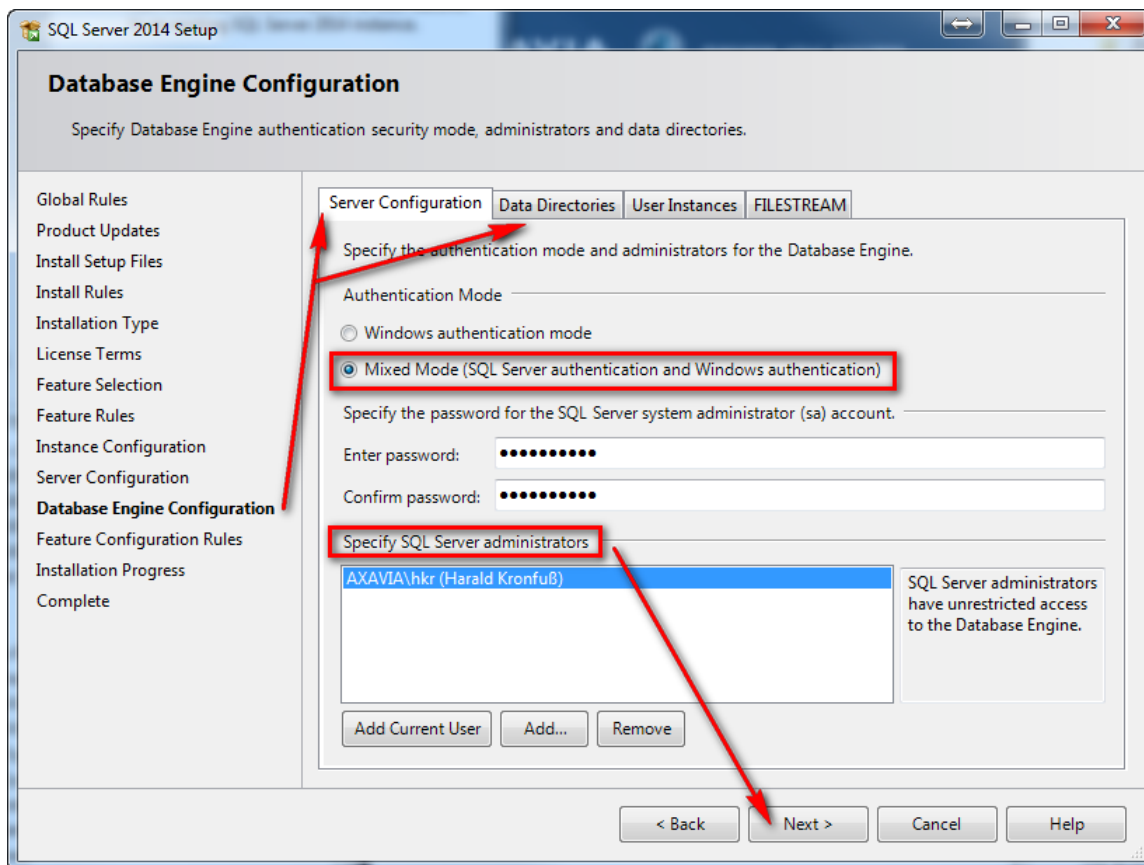
configure your instance (remember the names)...



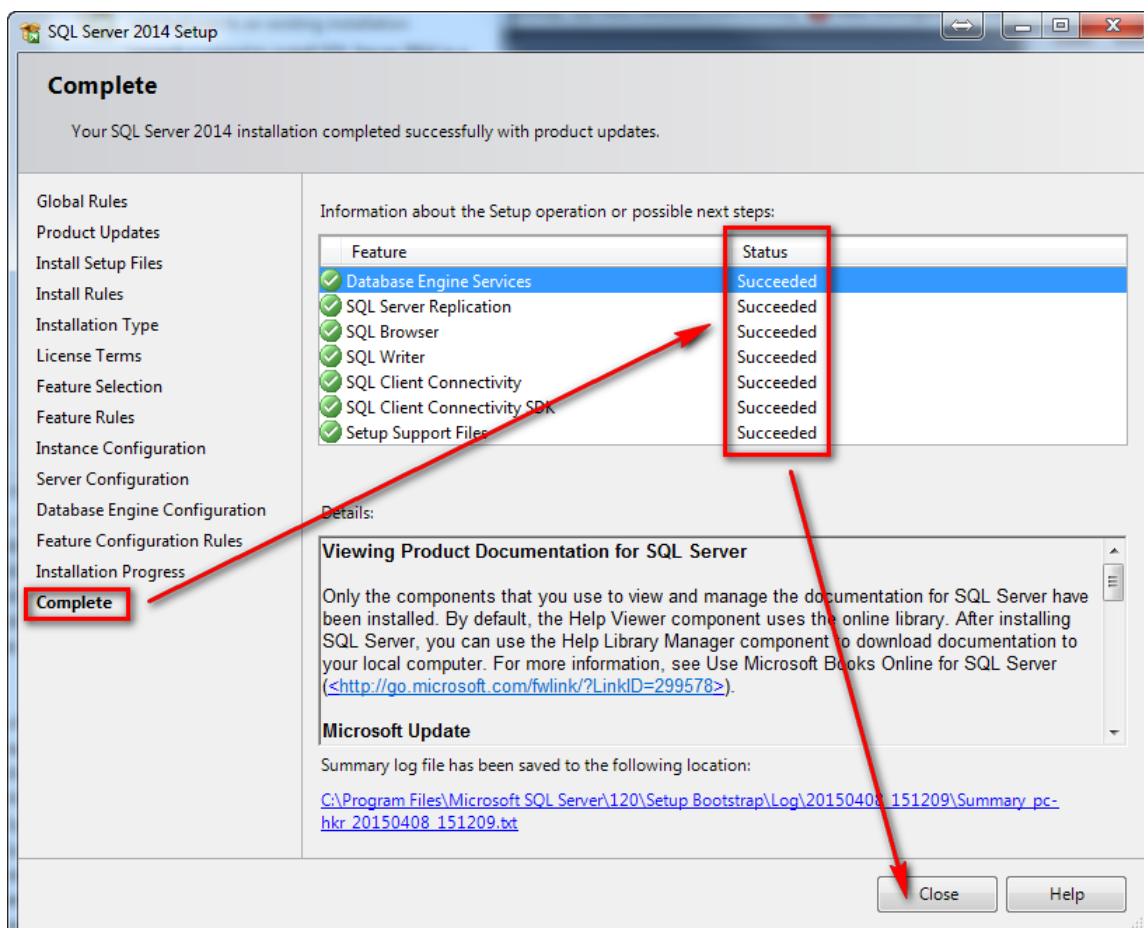
configure the server...



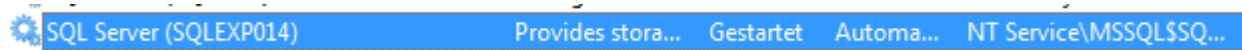
configure the database engine... passwords, account with admin rights, directories, and so on



if now errors occur, the installation should be fine.

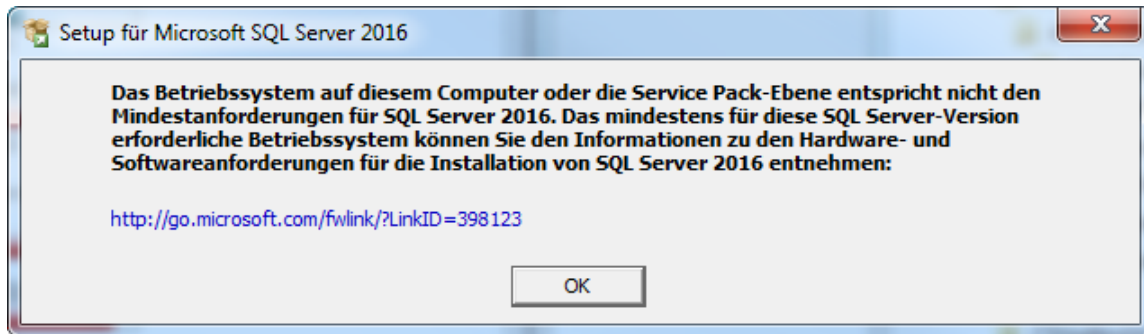


After a successful installation you can see a new instance at the services.msc:



For client (stand-alone) installations, there is no need for configuring the MS Windows firewall.

3.2.1.1.99-



3.2.2-SQL Server Management Studio

To manage the "Microsoft SQL Server" 2008/2012/2014 they need the "Microsoft SQL Server Managent Studio" 2008/2012/2014.

For version 2008 this could be downloaded "stand-alone", for newer versions, only integrated downloads (as previously described) available.

It is available here in a free Express version:

"Microsoft® SQL Server® 2008 Management Studio Express"

<http://www.microsoft.com/de-de/download/details.aspx?id=7593>

Important: Access to a SQL Server version can always be done only with latest "SQL Server Management Studio" or a version provided with the SQL Server.

You can not use a "SQL Server Management Studio 2008" to access a "MS SQL Server 2012" or higher! This leads to errors.

Conversely, you can access a "MS SQL Server 2008" with "SQL Server Management Studio 2012".

3.2.2.01-First login at "MS SQL Server Managementstudio"

In Windows-Startmenu search for the correct entry of "SQL Server Management Studio" and open it.

Example:



At the login-screen enter the needed data:

Servertype: always "Databasemodul"

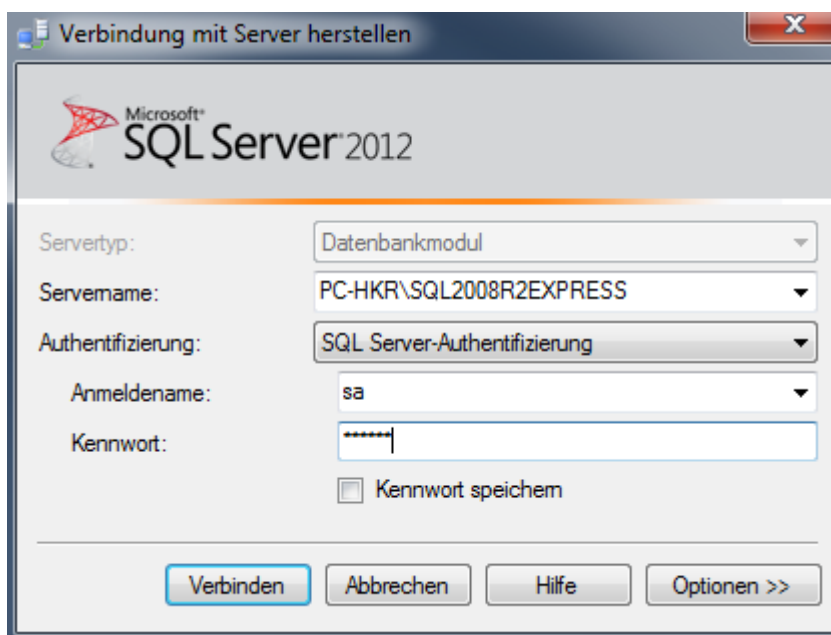
Servename: Name of PC/Server incl. instance-name of SQLServer, if it is not shown in the list.

Do not use the entry "(local)"! If you need to enter the name manually, please check, wheter the browser-service is running and firewall is configured correctly.

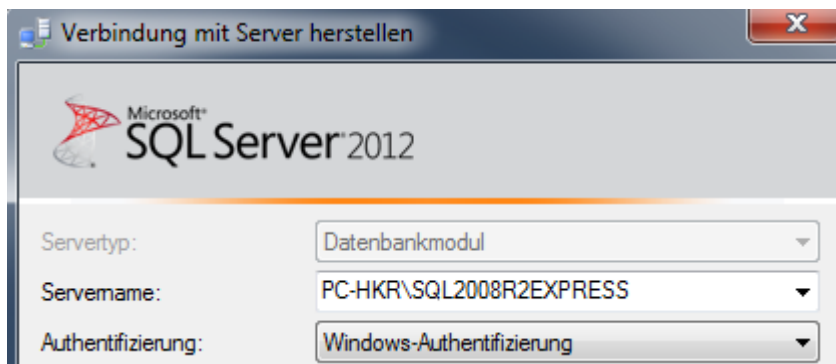
Login-name: case-insensitiv, enter the user for which you defined the password during installation process (usually user "sa").

Password: case-sensitiv password for user entered at Login-name.

If login doesn't work,



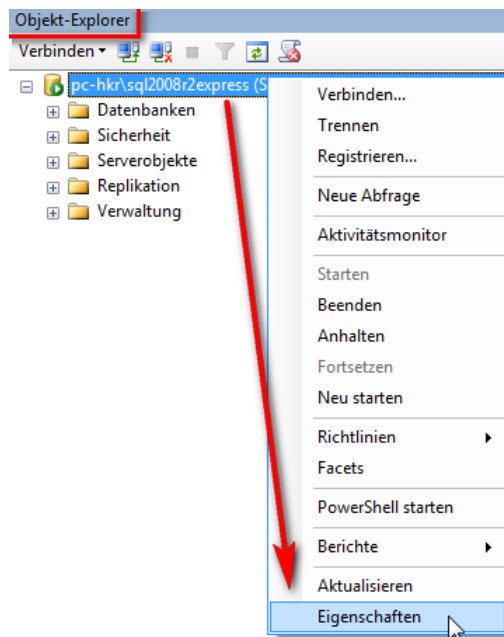
for the very first login you also can use "*Windows-Authentifizierung*", if your Windows-user has the needed permissions.



3.2.2.02-Set kind of login/authentication

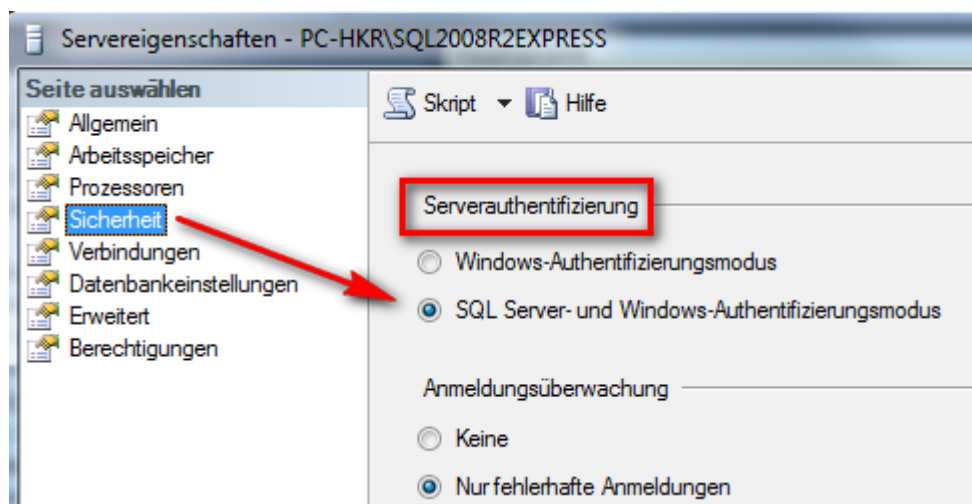
For the usage of Axavia it is very important to set the "*mixed server authentication*". This means the possibility to connect to the database via "*SQL Server Authentication*". If it wouldn't set during installation, change the setting now.

Therefore right-click at the database-module and open the properties.



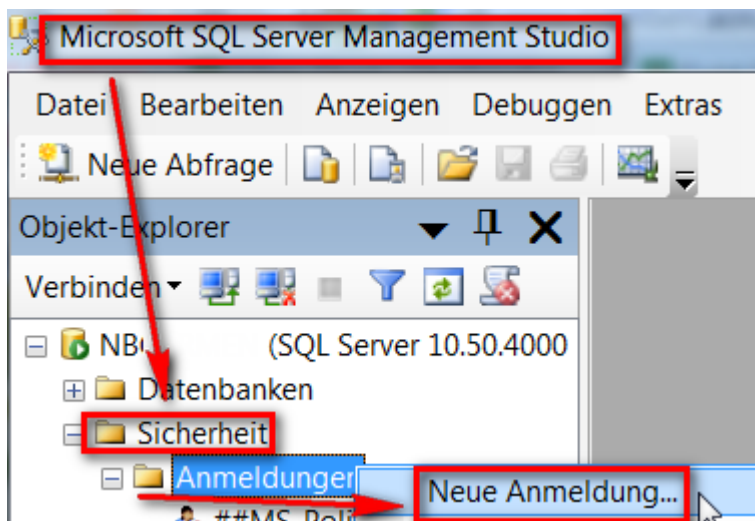
In the opened window go to "Server properties", click at "Security" and set "SQL Server- and Windows-Authentication-mode". Finished.

After this, restart the SQL Server service and re-login at the Management Studio.

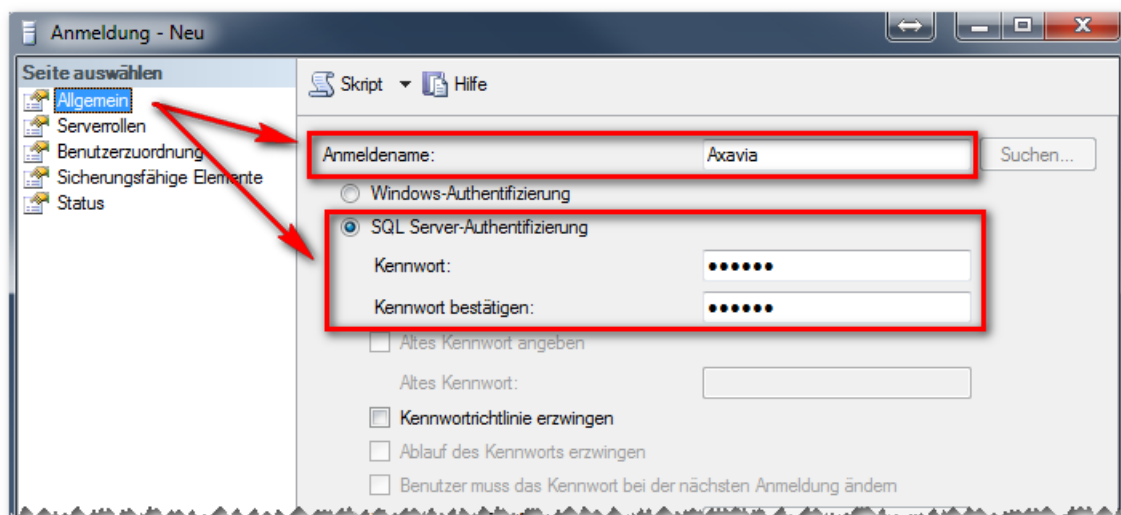


3.2.2.03-Add user / assign roles

At the current connected database-module at folder "Security" and subfolder "accounts" add a new account/logon via right-click.



At "**Common**" enter the needed data. This user is used by Axavia to logon to the database with admin-permissions.



Login-name: axavia

SQL Server-Authentication: enable it(has to be switched at kind of login, see [02 – Set kind of login/authentication](#))

Password: axavia

(Feel free to set your own password, but be sure to remember. You need it for creating Axavia "ACC"-files, too!!)

Force password policy: disable

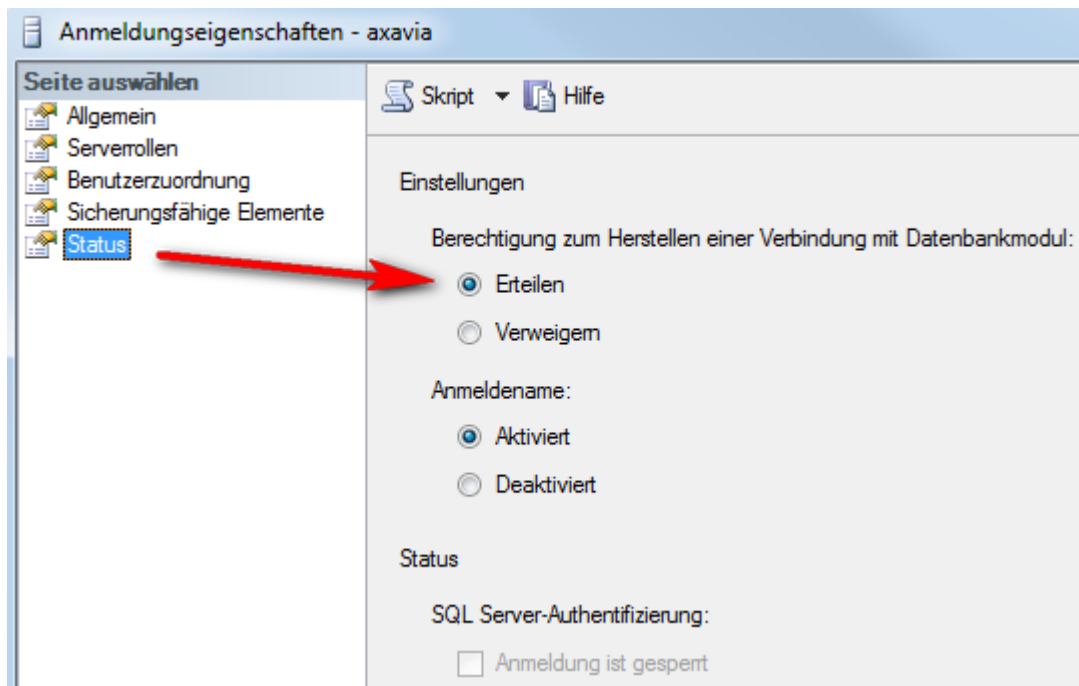
In the next step this new user needs some permissions, therefore we assign server-roles to this user.

At "**Server-Roles**" select the necessary roles:

- * dbcreator
- * public
- * sysadmin

Note: If you don't like to give this user the role "sysadmin" (for security reasons), you can set a mapping at the entry "User assignment" to get the needed permissions.

At "**Status**" allow the permission to create connections to the database-modul. Now you are finished.



3.2.2.04-Logon at "SQL Server Management Studio"

After successful configuration in "SQL Server Management Studio" future logins are done via "SQL Server-Authentification" with the created user for AXAVIA.

Default-setting:

user: axavia

pw: axavia



Servertype: always "Databasemodul"

Servername: Name of PC/Server incl. instance-name of SQLServer, if it is not shown in the list.

Do not use the entry "(local)"! If you need to enter the name manually, please check, whether the browser-service is running and firewall is configured correctly.

Login-name und *Password*: enter, as mentioned before.

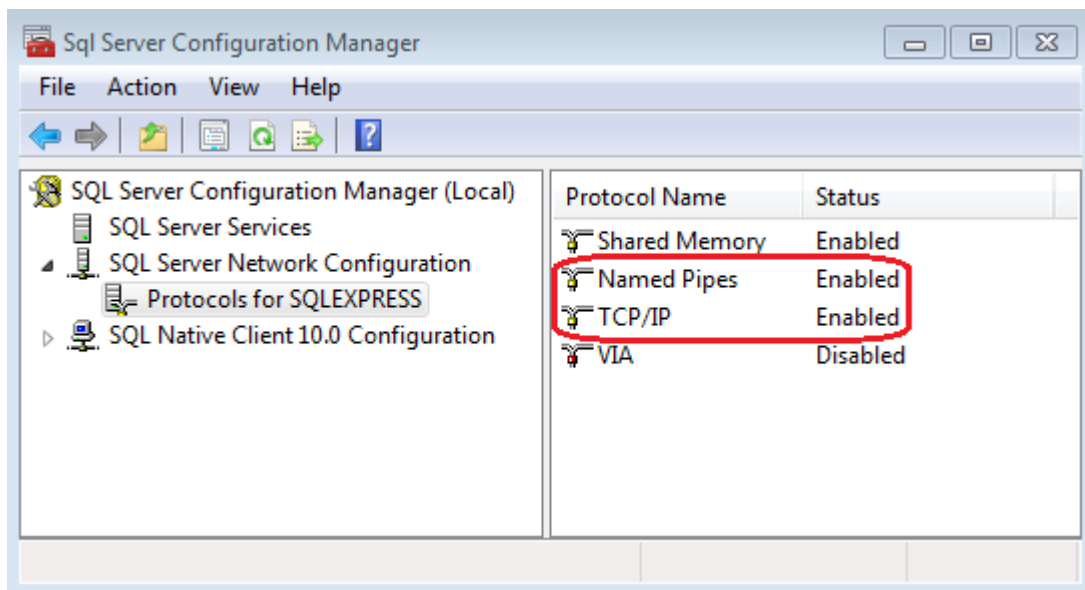
3.2.3-SQL Server Configuration

If you use the SQL Server not local, but over the network, the following settings are required in the "SQL Configuration Manager":

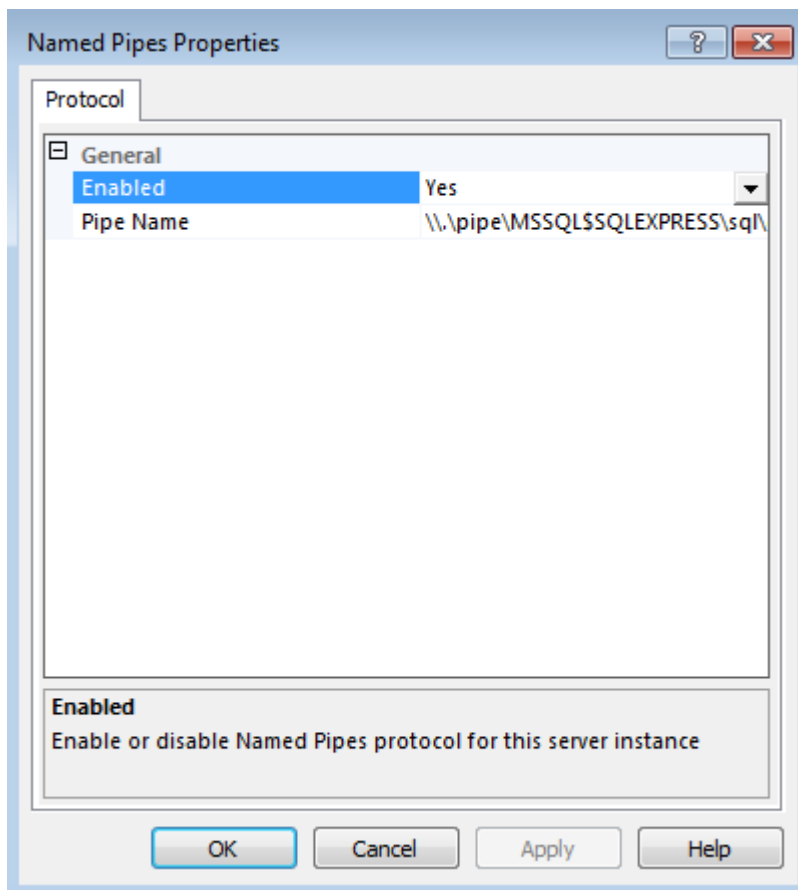
To do this, start the "SQL Server Configuration Manager" via "Start -> Programs -> Microsoft SQL Server 2008/2012 -> Configuration Tools".

3.2.3.01-Protocol configuration

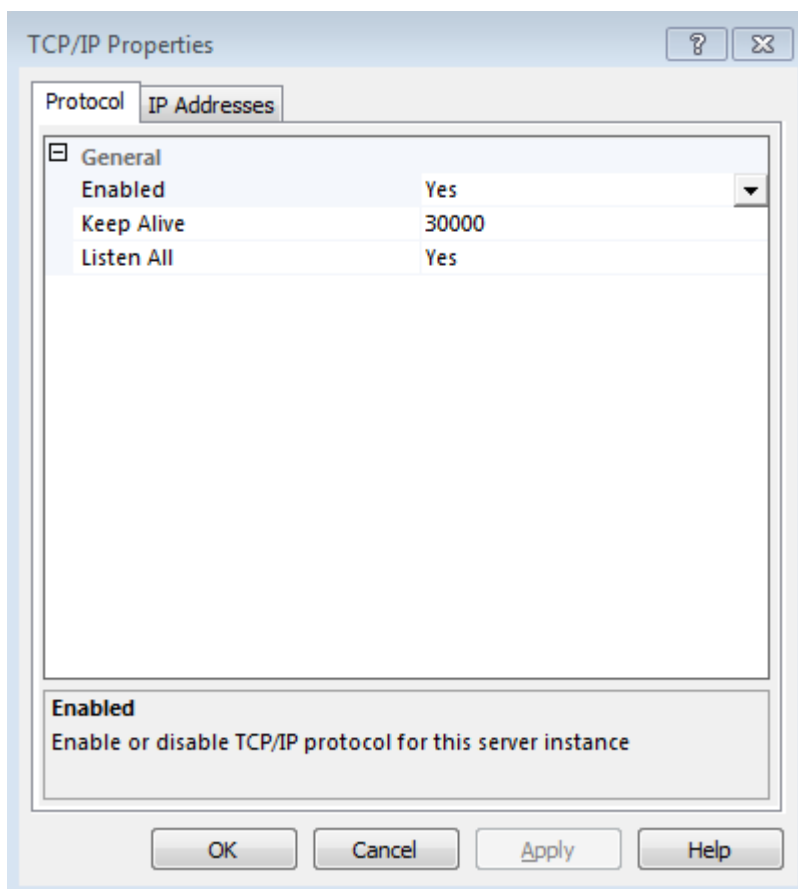
Select the entry "Protocols for 'your instancename' " at "SQL Server Network Configuration" and right click "Named Pipes" and "TCP/IP" for enabling them.



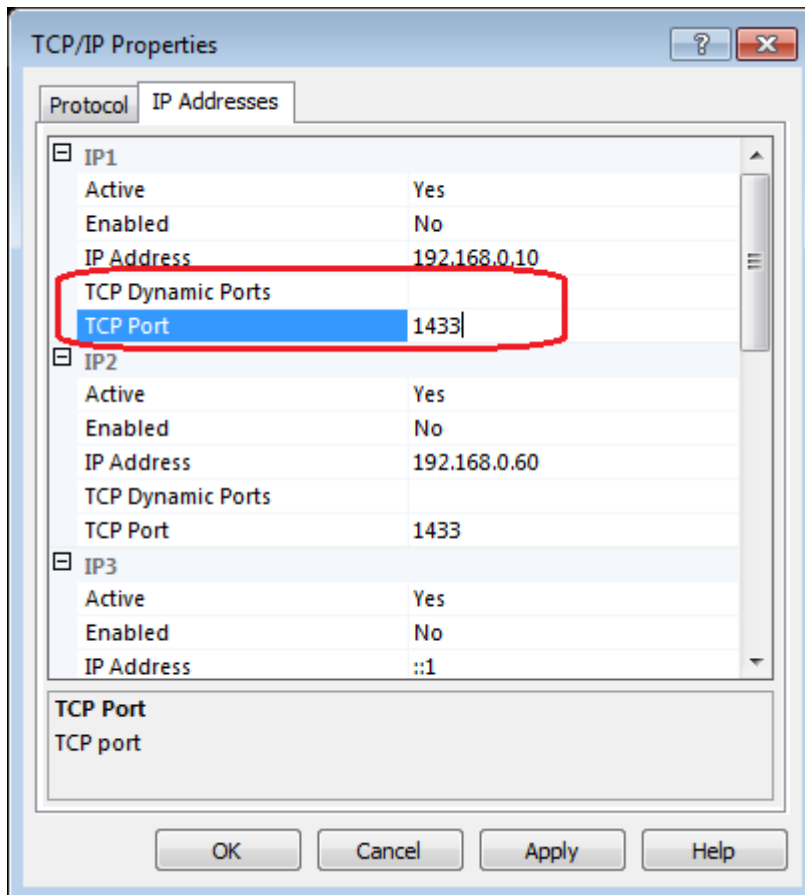
Open properties via double-click at "Named Pipes" und "TCP/IP"



and set the value "Enabled" to "Yes".



You also need to configure the ports at Protocol "TCP/IP". Change to tab "IP Addresses".



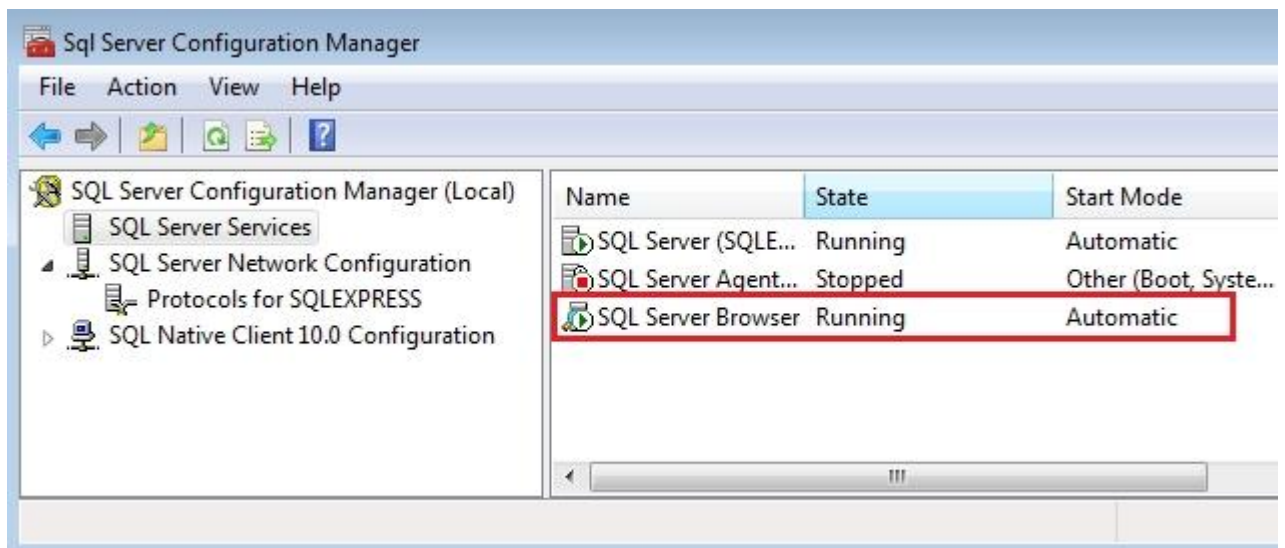
At "TCP Dynamic Ports" remove/delete the value "0" (entry needs to be empty) and add at "TCP Port" the value "1433" for all IP-addresses.

Click on "Apply" stores the changes. After a restart of the SQL Server, the values really will be applied.

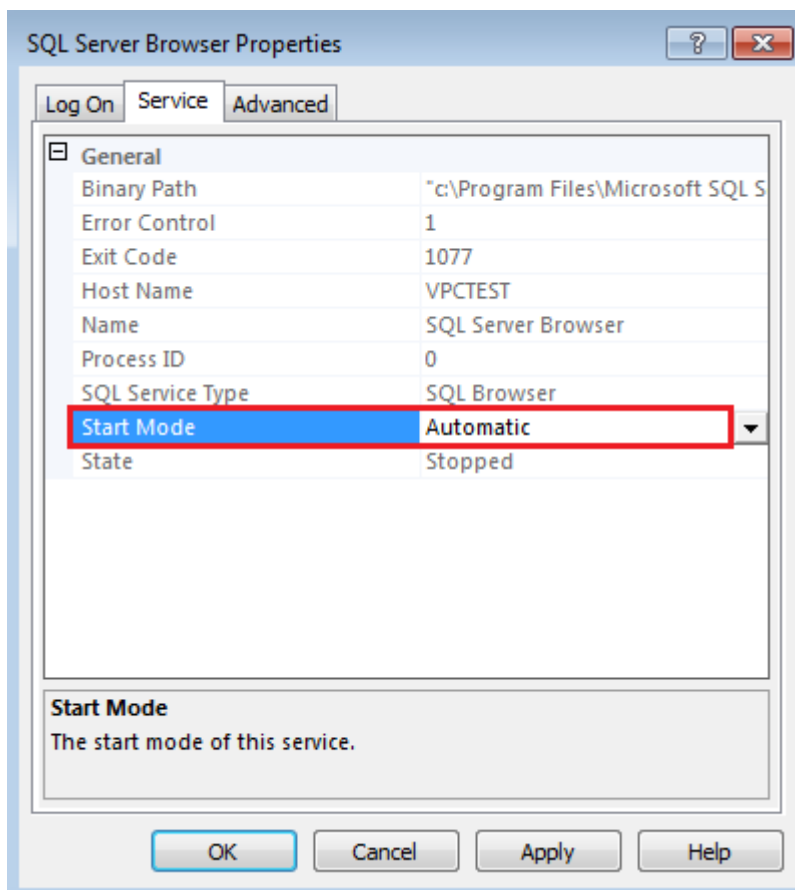
At least please add port "TCP 1433" and port "UDP 1434" to the exception of the firewall on the server. How to do, have a look at the example in chapter ([08 – Configuring the firewall](#)).

3.2.3.02-SQL Server Services configuration (SQL Server Configuration Manager)

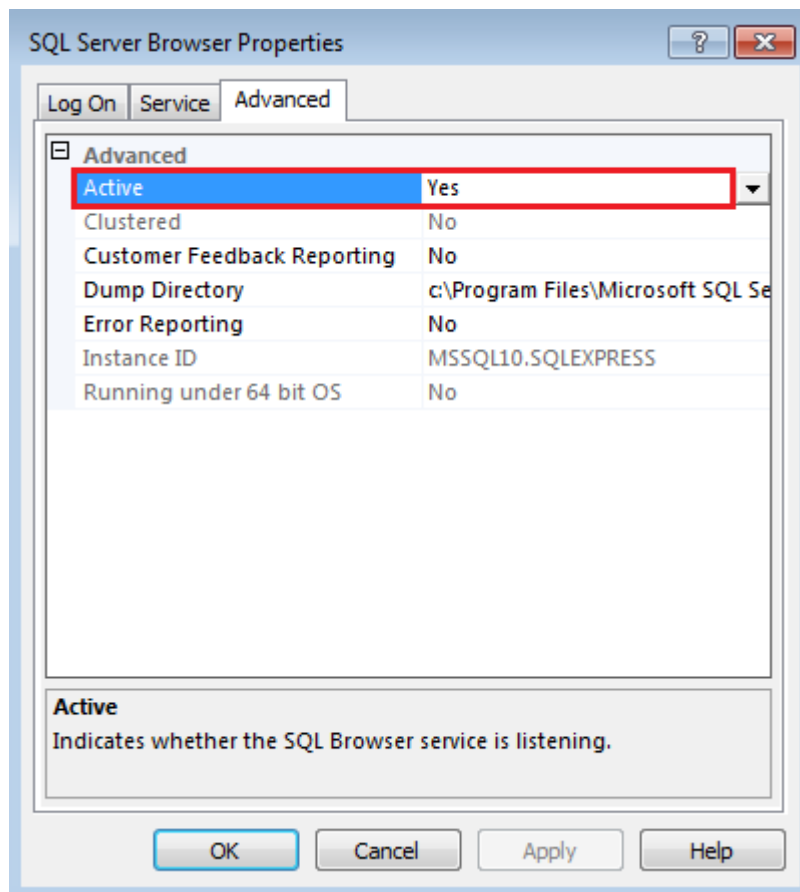
To make the server for other clients visible, you must restart the browser service at "SQL Server Services":



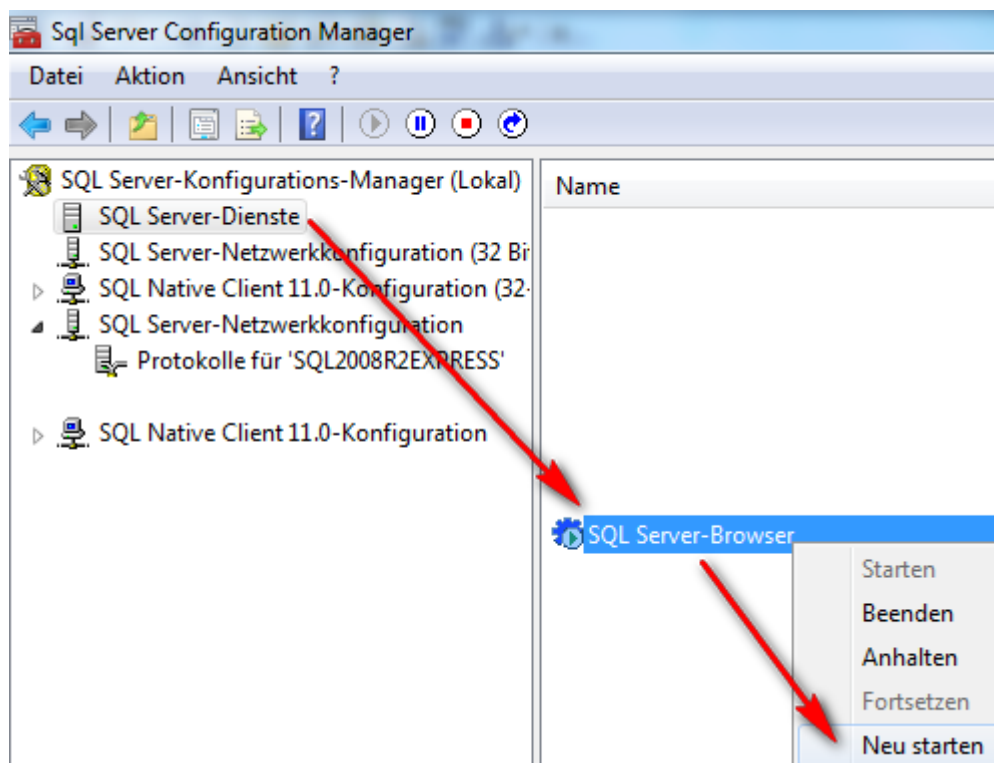
Set the startup type to "Automatic". Double-click on the Browser-service, click on tab "Service" and change "Start Mode" to "Automatic":



The service needs to be activated at tab "Advanced". Set value "Active" to "Yes":



After editing the settings, please always restart the services including the SQL Server itself.
For example:



The service "*SQL Server-Agent*" is running on demand, default value is "stopped".

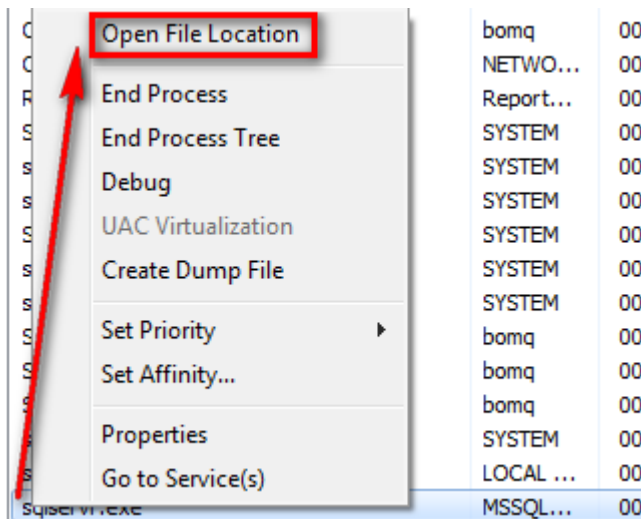
3.2.4-Configuring the firewall

Start "Windows Firewall", select the tab "Exceptions" and add the SQL Server to the list of Exceptions:

UDP-Port 1434 for SQL Browser

TCP-Port 1433 for SQL Server

To quickly find the path to "SQLServer.exe", start the taskmanager, switch to tab "Processes" and via right-click on "sqlserver.exe" open the file location.



This path you can copy from Windows-Explorer and paste it into the firewall-rule.

3.2.4.1-Firewall for Windows 7

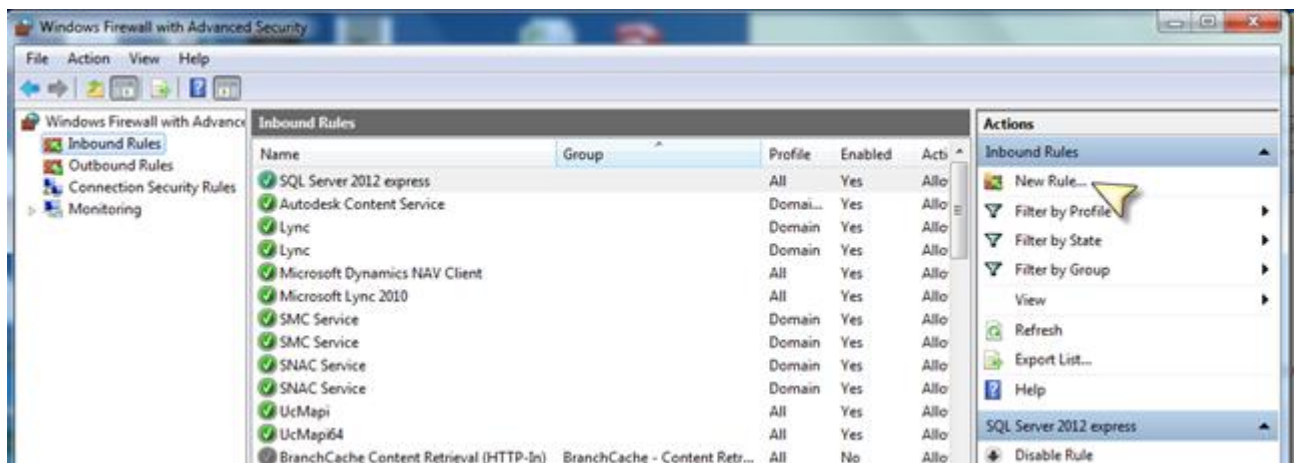
Add the "sqlserver.exe" to the list of exceptions by using port "TCP 1433".

Do the same for the SQL Browser (UDP port 1434).

Possible directory for "sqlbrowser.exe":

"c:\Program Files (x86)\Microsoft SQL Server\90\Shared\sqlbrowser.exe"

Open "Windows Firewall with Advanced Security" and define a "New Rule..." at "Inbound Rules (Window Actions)".



Either with right-click on "Inbound Rules" or in the "Actions"-Window via click on "New Rule ...".

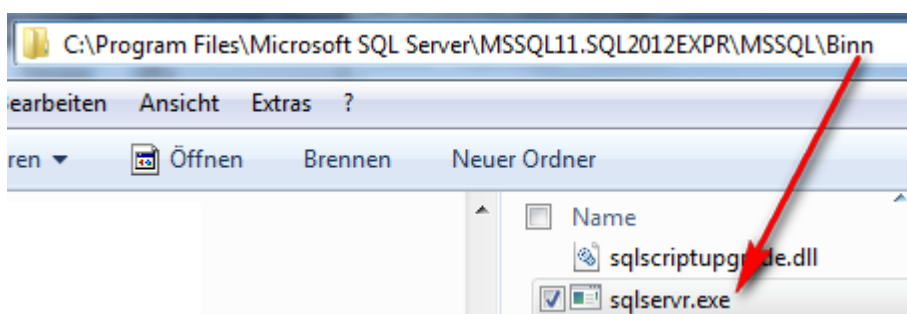
Now you can open the firewall for a *program* or a port.



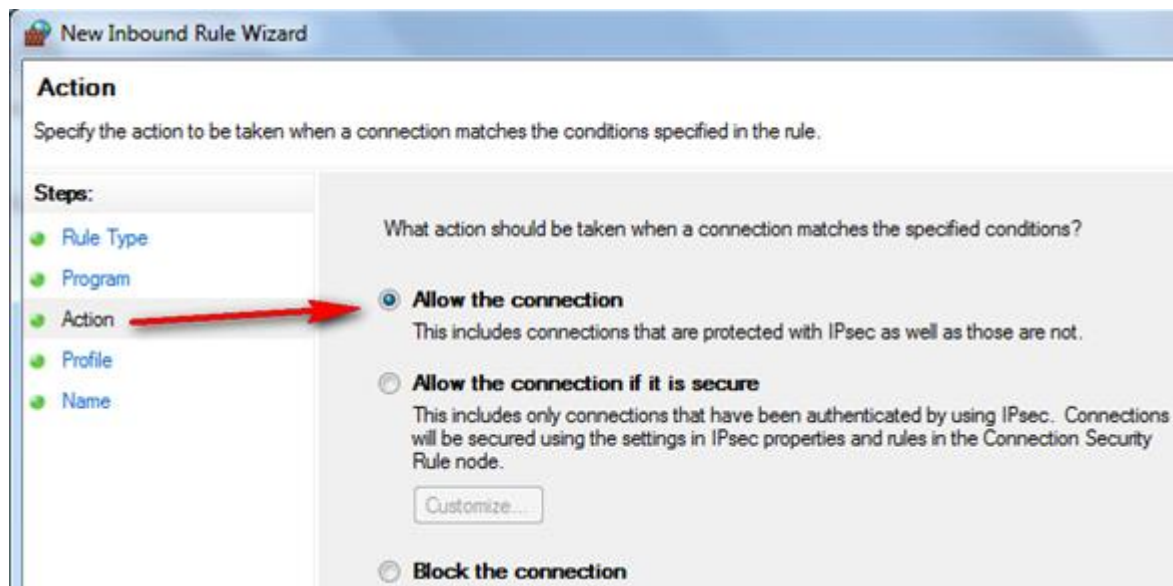
Below we open the firewall for the program "SQL Server". Navigate at the path-field to the desired "*.exe"-file via click on "browse...".



In the installation directory of SQL-Server choose "sqlserver.exe" and confirm it with click on "open" (needs TCP port 1433).



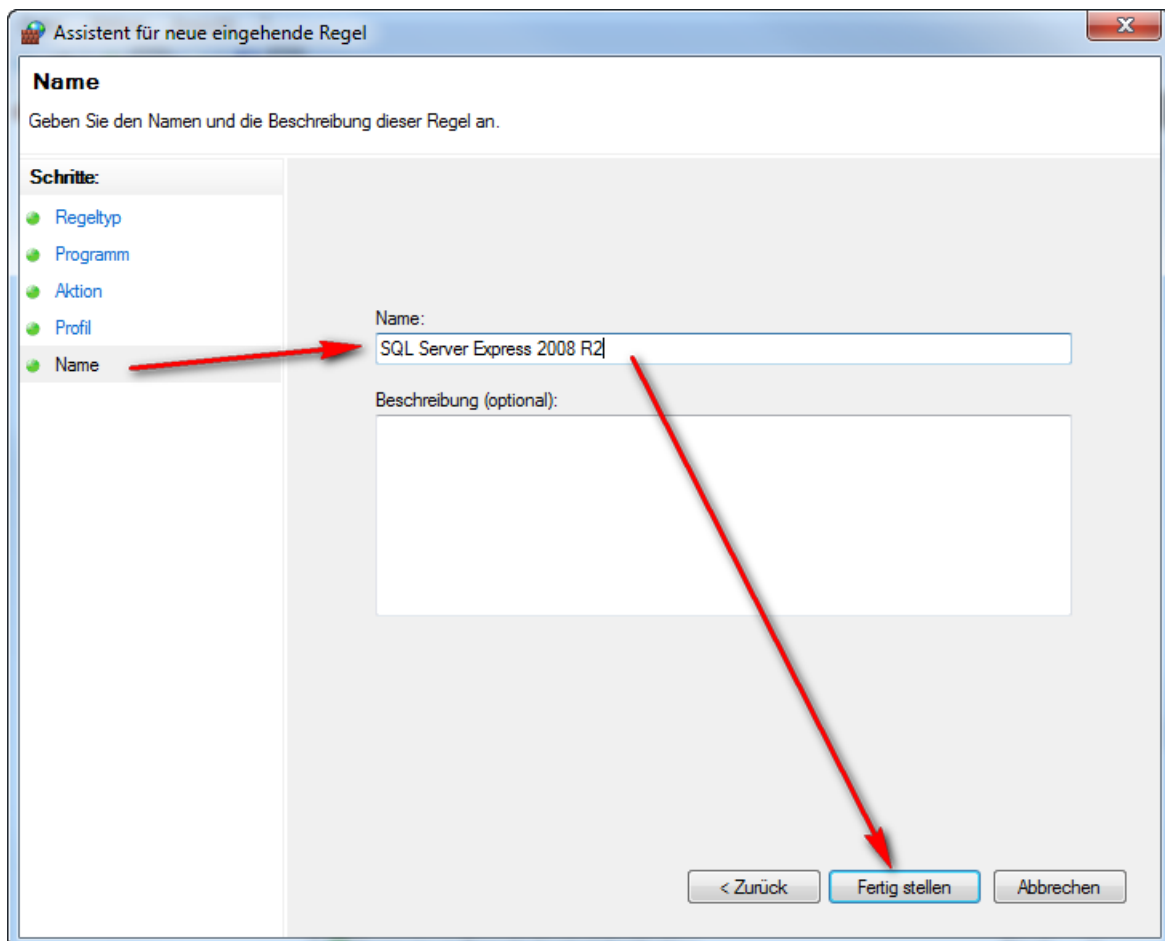
In the next step we allow connections through the firewall.



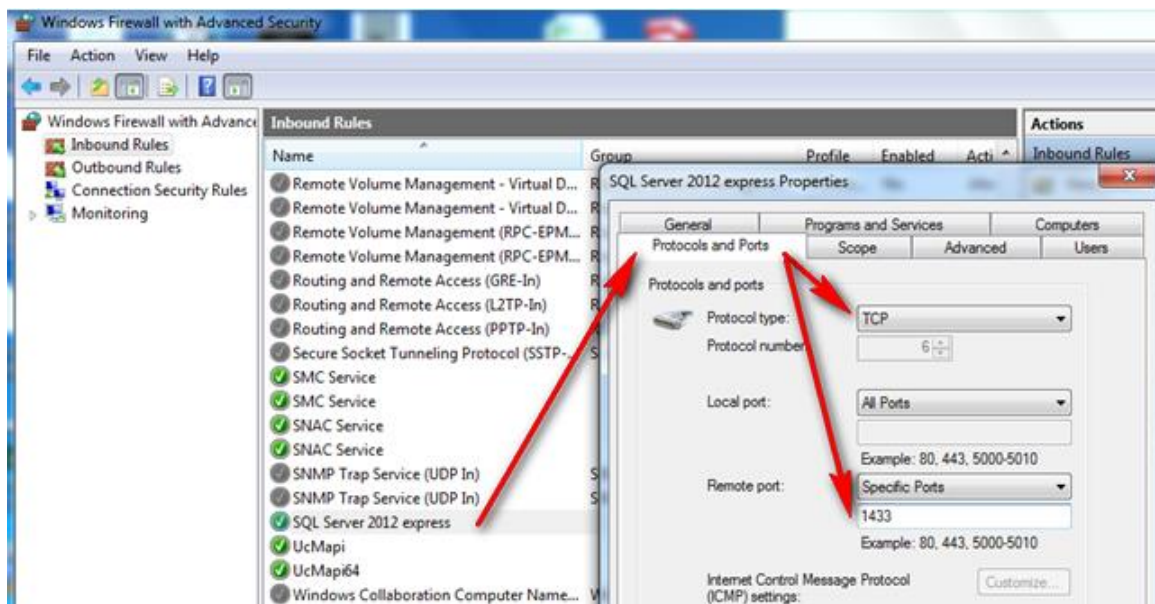
Select which areas the rule should be applied to.



Give a name for the rule and finish the step.



After finishing the rule, you can reopen it for editing the ports and protocols, if needed.



The same steps need to be done for the SQL Browser service (needs UDP Port 1434)

Possible path to "sqlbrowser.exe":

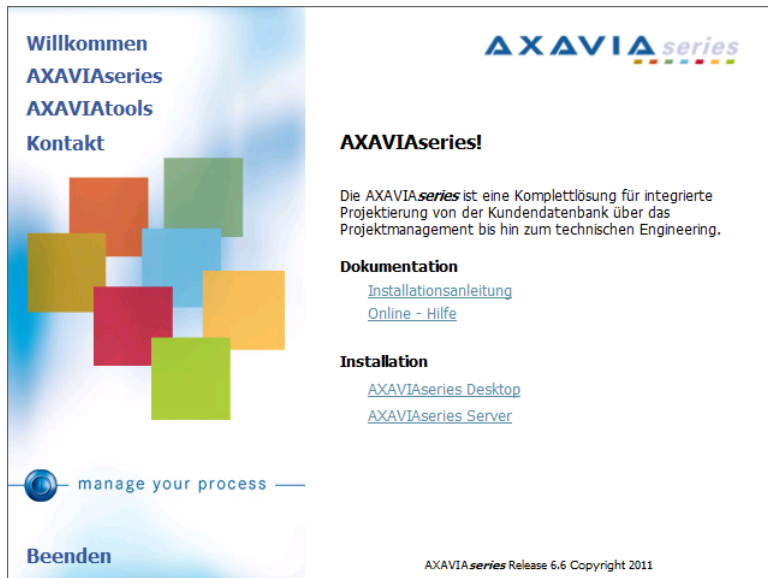
"c:\Program Files (x86)\Microsoft SQL Server\90\Shared\sqlbrowser.exe"

3.3-AXAVIAseries desktop

3.3.1-AXAVIAseries desktop

To install the AXAVIAseries desktop, insert the DVD into your drive or start it from the media where you stored our software.

If the usually automatically starting autorun dialog should not appear, please start the "setup.exe" manually:



There you select in the left margin "AXAVIAseries" and then click "AXAVIAseries desktop".

Now the AXAVIAseries setup leads you through the installation.

Related tasks:

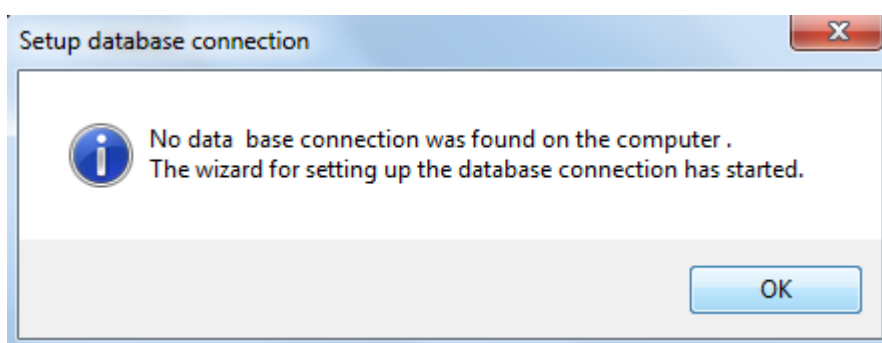
[1 – Windows Sharing for AXAVIAadms](#)

[2 – Startup and login](#)

[3 – Import packages](#)

3.3.1.1-Setup steps

If you get a message box like this:

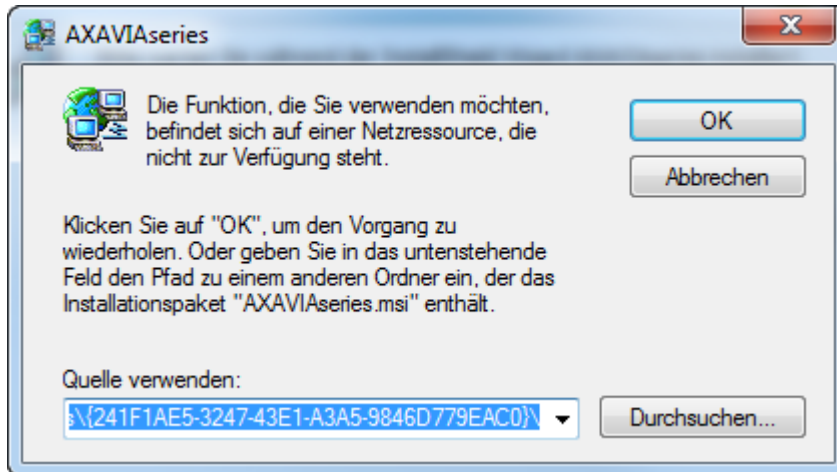


be sure, you defined a environment variable to the Axavia ACC-directory and have at least one *.acc file inside.

If it's the very first installation and you DO NOT have an already created database, then, after the "Setup database connection" dialog you can set the path to the folder, where the Axavia .acc-files shall be stored.

3.3.1.1.1-Possible problems

If the following notification window is provided during setup (especially when installing plug-ins), then the previous installation cannot be removed automatically:



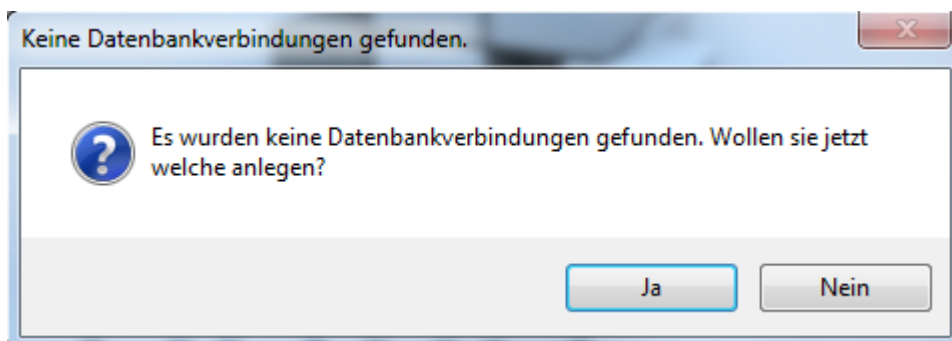
For described steps, uninstalling it will NOT be possible, then please call our support.

After "OK" the previous installation files are removed againn, please check the path specified in the hint window if it exists.

For example, C:-Users-YourUser-AppData-Local-Downloaded Installations-241F1AE5-3247-43E1-A3A5-9846D779EAC0

If the path does not exist, only deleting the corresponding registry key, where the reference to the

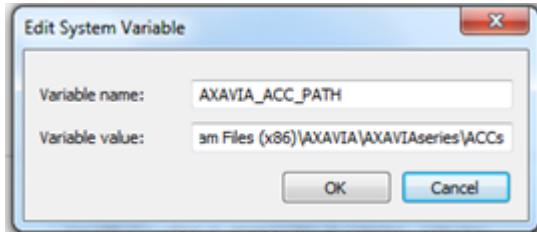
3.3.1.1.1.01-



3.8.3-Set the environment variable for database connections

First set the system variable "AXAVIA_ACC_PATH" to a path with at least one valid ACC-file.

Example: "AXAVIA_ACC_PATH = c:\ACC" and in "c:\ACCs" the ACC-file "Text.acc" is stored.



This can also be a UNC path if the setup environment has access to it.

A Note to ACC-path and how to set environment variables:

The ACC-files contain the database connection information:

- Server name (and optionally the name of named SQL Server instances)
- Database name
- SQL-Server username
- SQL-Server Password

After installation the ACC-files are in principle in the directory "ACCs" in the installation-directory (e.g. C:\Programme\AXAVIA\AXAVIAseries\ACCs))

If the files are stored in other directories, this location can be set by using the environment variable "AXAVIA_ACC_PATH".

This can be stored for all users on a system environment variable or a user (related) environment variable.

Setting the user-specific environment variable does not require higher privileges. Thus, even temporarily, for example, for training purposes, the ACC-path can be changed. After removing these user-specific environment variable, the system environment variable affects again.

At Windows -> Start -> "search programs/files" search for "environment variable" and select "edit environment variables for this account".



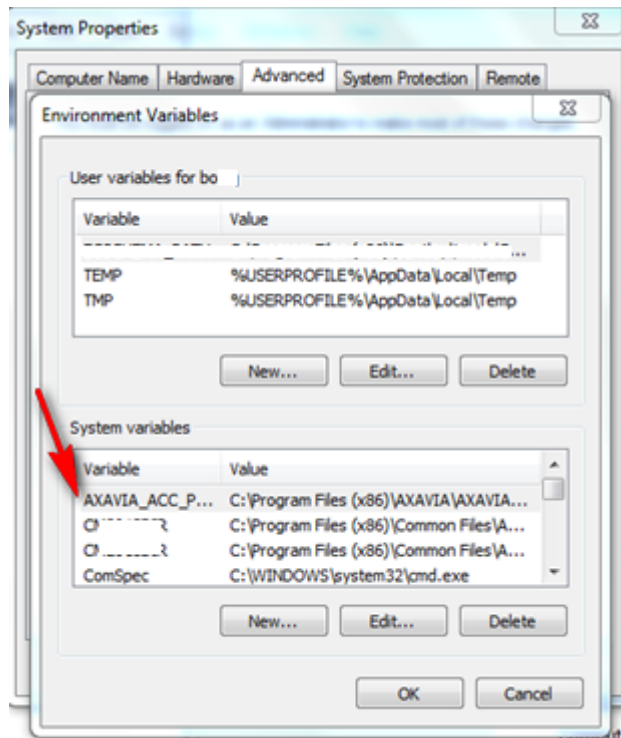
In the opened windows you can set the user-specific or system-wide valid variable (admin rights needed).

You also can do it via command-prompt:

user variable: setx AXAVIA_ACC_PATH "C:\Temp"

system variable: setx /m AXAVIA_ACC_PATH "\\IP-Address or Networkshare\ACC-folder"

For example:



5.2-ACC files

The ACC-files contain the database connection information:

- Server name (and optionally the name of named SQL Server instances)
- Database name
- SQL-Server username
- SQL-Server Password

After installation the ACC-files are in principle in the directory "ACCs" in the installation-directory (e.g. C:\Programme\AXAVIA\AXAVIAseries\ACCs))

If the files are stored in other directories, this location can be set by using the environment variable "AXAVIA_ACC_PATH".

This can be stored for all users on a system environment variable or a user (related) environment variable.

Setting the user-specific environment variable does not require higher privileges. Thus, even temporarily, for example, for training purposes, the ACC-path can be changed. After removing these user-specific environment variable, the system environment variable affects again.

At Windows -> Start -> "search programs/files" search for "environment variable" and select "edit environment variables for this account".



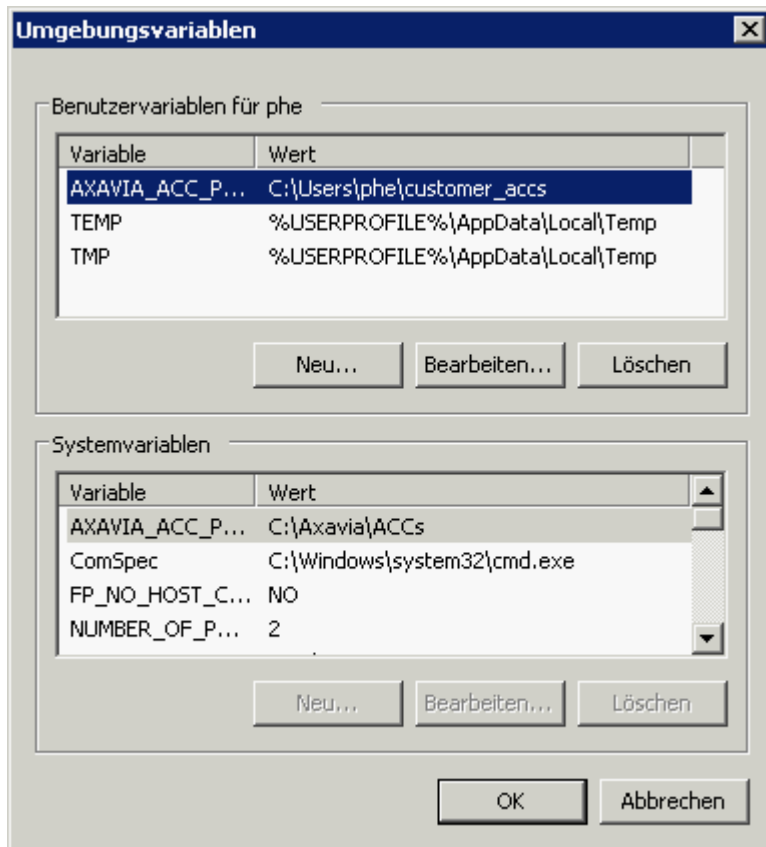
In the opened windows you can set the user-specific or system-wide valid variable (admin rights needed).

You also can do it via command-prompt:

user-specific: `setx AXAVIA_ACC_PATH "C:\Temp"`

system-wide: setx /m AXAVIA_ACC_PATH "\\IP-Address or Networkshare\ACC-folder"

For example:



3.3.1.2-Windows Sharing for AXAVIAdms

To ensure that your files can be centrally managed by AXAVIAdms, you need a Windows share on your server. The first time you logon to "AXAVIASeries desktop", you must set the "base folders" at the "ROOT".

AXAVIAconfiguration - AXAVIASeries Desktop

Menu: Datei, Bearbeiten, Ansicht, Extras, Fenster, Hilfe

Toolbar: Neu, Send depth, etc.

Overview

- Configuration
 - SD00 - AXAVIASeries base settings
 - 104 - Software Management
 - 401 - Client (ROOT) ← Red arrow
 - 402 - Base directories
 - 405 - Multilingualism
 - 406 - Multicurrency
 - 407 - Index search
 - 410 - Country information
 - 412 - Text modules
 - 502 - Categorization
 - 503 - Selectionlist
 - 505 - Company organisation
 - 506 - Project Management
 - 507 - Document management
 - 508 - Material Master
 - 510 - Logic analyzer
 - 513 - Keywords and register
 - 514 - Workflow
 - 516 - Service Jobs
 - 517 - MOC - Management of Change
 - ASD01 - Organisation
 - ASD02 - Marketing & Sales
 - ASD03 - Process- & Projectmanagement
 - ASD04 - Engineering & Construction
 - ASD05 - Procurement & Order Processing
 - ASD06 - Production planing
 - ASD07 - Maintenance & Servcie
 - CCN10 - PlugIn's and AddOn's
 - Default object structure - Template object structu
 - ESL20 - Industry solutions
 - Skill structure - Qualification structure
 - Working time model structure - 20 Work-time mo
 - Organisation structure
 - AXAVIA Software GmbH (A)

Table

Icon	Label
	AXAVIA Software GmbH

Properties

base X

970 - Basefolders

Base folder	Path
Hyperlink base	D:\Axavia\Work\axavia\documents\
Base folder material library	D:\Axavia\Work\axavia\product
Base folder document structure	D:\Axavia\Work\axavia\documents
Base folder projects	D:\Axavia\Work\axavia\projects
Base folder object templates	D:\Axavia\Work\axavia\default
Base folder document library	D:\Axavia\Work\axavia\documentLibraries
Base folder mailbox	D:\Axavia\Work\axavia\mailbox
Base folder synchronization	D:\Axavia\Work\axavia\sync
Base folder index files for index search	D:\Axavia\Work\axavia\index
Base folder for offline synchronization protocols	D:\Axavia\Work\axavia\OfflineSyncLogs
Base folder	D:\Axavia\Work\axavia

3.3.1.3-Startup and login

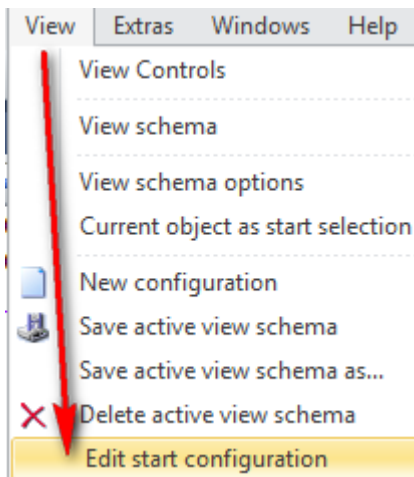
Double-click on the button "AXAVIASeries" or in the start menu under "all programs -> AXAVIA -> AXAVIASeries" you can start the program (default installation).

When starting the program through a desktop shortcut, it is possible to preset a view schema when the program starts. The command line option is /guiConfig = "view schema name".

Example: "C:\Program Files (x86)\AXAVIA\AXAVIASeries\ AXAVIASeries Desktop.exe" / guiConfig = "AXAVIASeries Desktop"

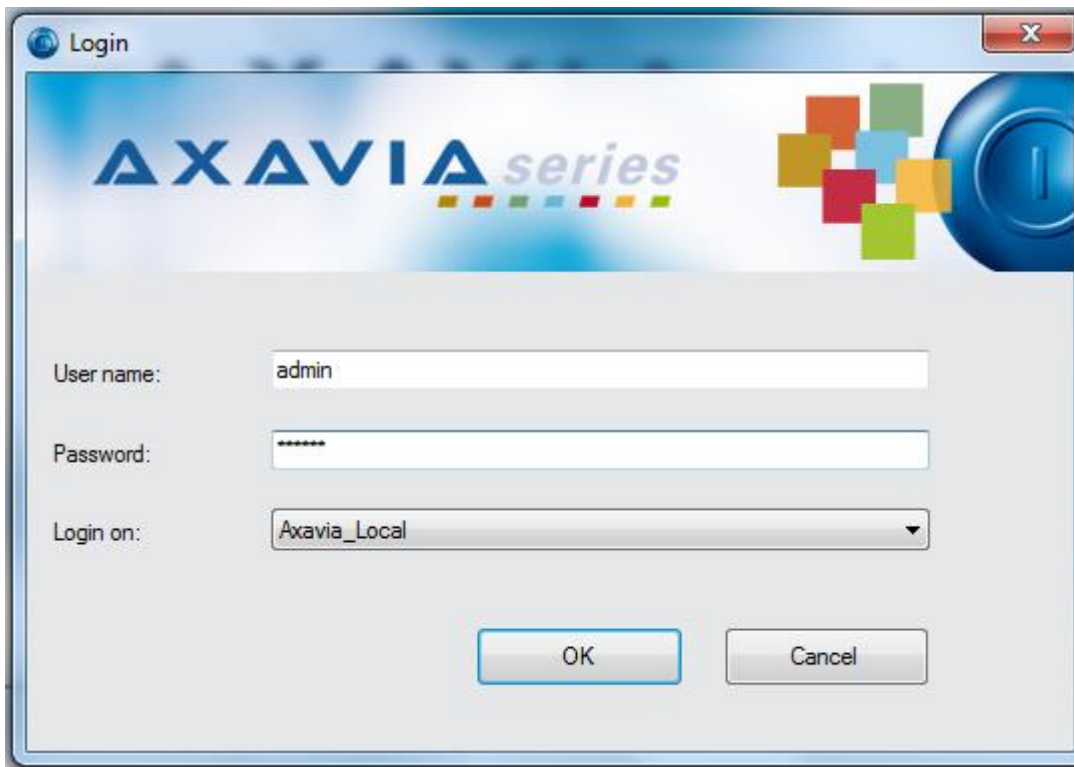
Since version 6.6B54xx or higher, global and custom home screens/start views can be easily set within the software.

More on that later after login to AXAVIA at menu "View -> Edit start configuration".



(further information at AXAVIASeries Desktop - manual: 02-View Method, 2.01-GUI Framework ... chapter "[1-12 – Startconfiguration](#)").

After program-start you get the login-dialog.



Please enter your username (AXAVIA username, the first time you need to use "admin") and your password (for user "admin" the default is "axavia").

Username and password are set by the AXAVIA administrator at "User management".

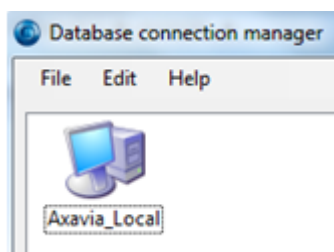
Username is NOT casesensitive, password IS casesensitive.

Login On: select the database to which you want login.

Usually normal users only work with one database, so they don't need to choose.

After a restart of Axavia the last used database is shown at the "Login On"-field.

If you need new connections, you can create new entries by selecting "<New connection>". You get a new dialog-window, where you can edit, create and delete connections to databases.



In the "Database Connection Manager" you can connect to existing SQL databases that were created for the AXAVIAseries.

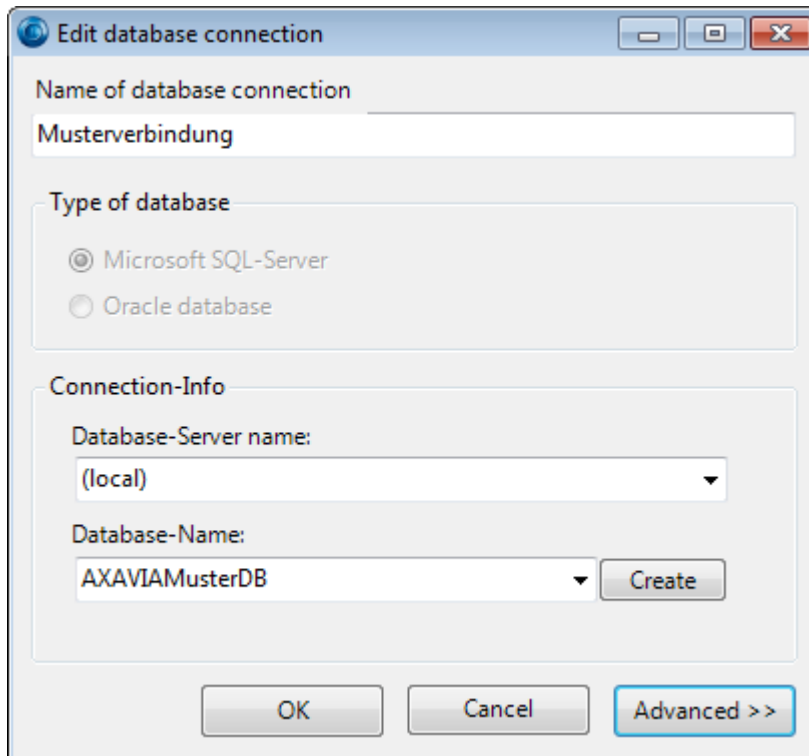
To do this, open menu "Edit -> new connection".

In the following dialog "edit database connection", you can specify a user-friendly name for the database connection (appears in the login dialog). This name is independently of "Database-Name", which shows the name of the database, as it exists at the SQL Server.

"Database-Server name" should be browseable, if the options were set correctly during installation of SQL

Server and configuring the firewall at the server.

You also can enter the ip-adress of the database-server, if resolving the name doesn't work.



The very first time, after installation of Axavia, you need to create your Axavia database ONCE.

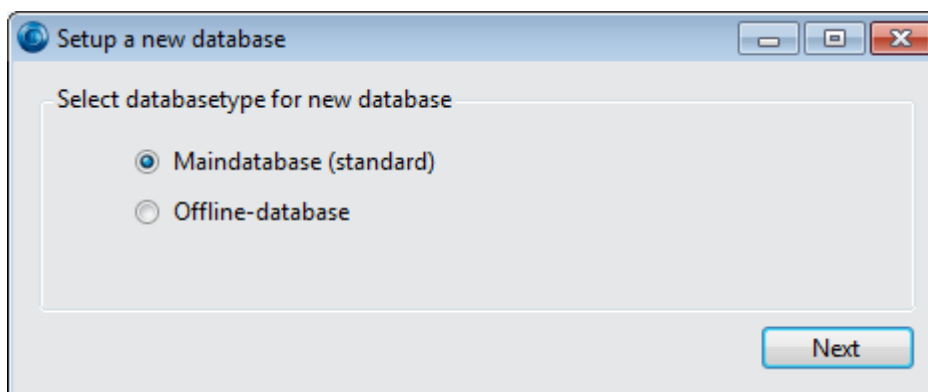
Select the server, enter a desired name and press "Create".

This new database only contains a minimum of modules, needed for the very first login. Further modules and models can be imported during the following steps.

Login data for new databases are always: user "admin" Password: "axavia" .

After creating the new database you need to select the kind of database. For the very first time, always choose "Maindatabase".

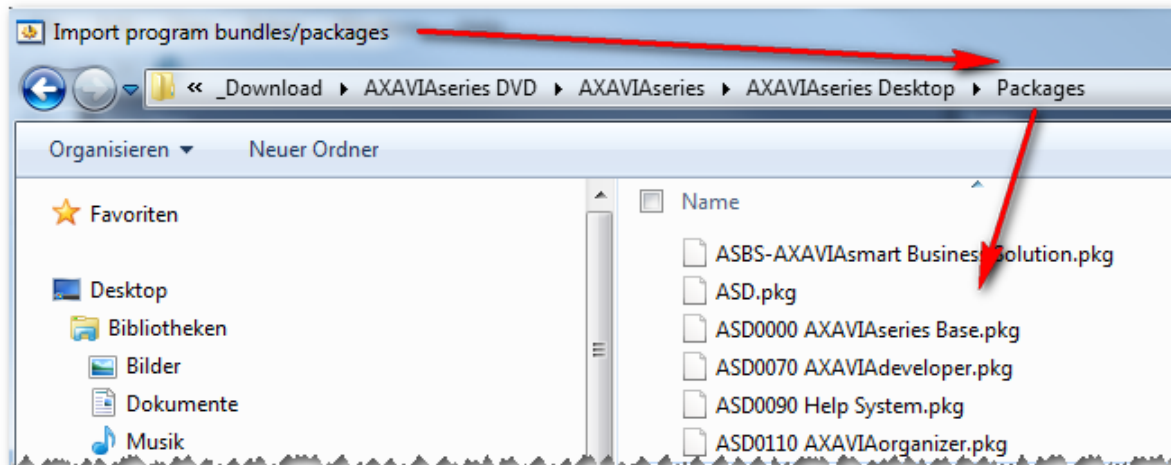
Note: "Offline-database", if really needed, would be a topic for customizing.



3.3.1.4-Import packages

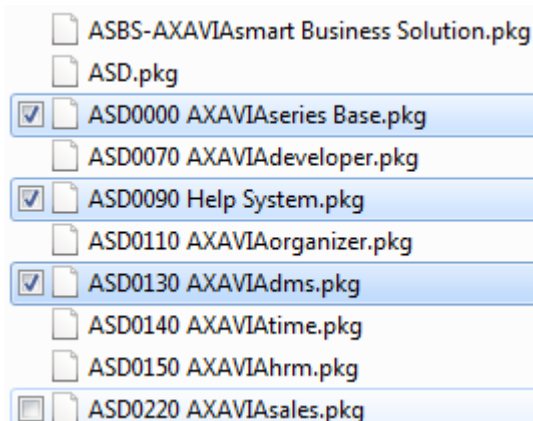
When you log in for the very first time in a newly created database, you will be asked which packages you want to install.

For this, the following dialog box opens:



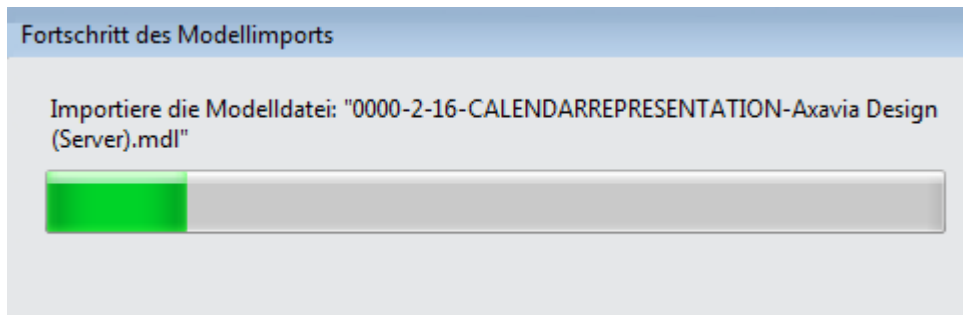
If the directory with the packages is not shown automatically, you can find the directory here "DVD-Rom:\AXAVIAseries Desktop\AXAVIAseries Desktop\Packages"

Now you can select your already licensed packages (if not sure which, please have a look at your order-sheet or call your AXAVIA-consultant) and import them via click on "open".

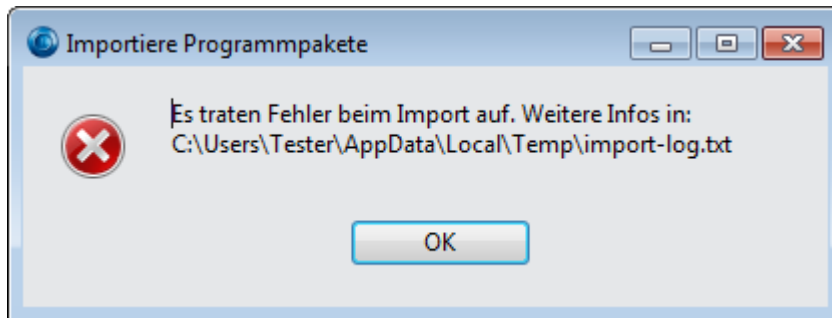


Attention: You only allowed to import packages you bought!!!

It takes some time to import the selected packages. You get a progress-bar during the import.



At the end of import you may get a note, where you can review the imported packages (general information, which errors occurred and so on).

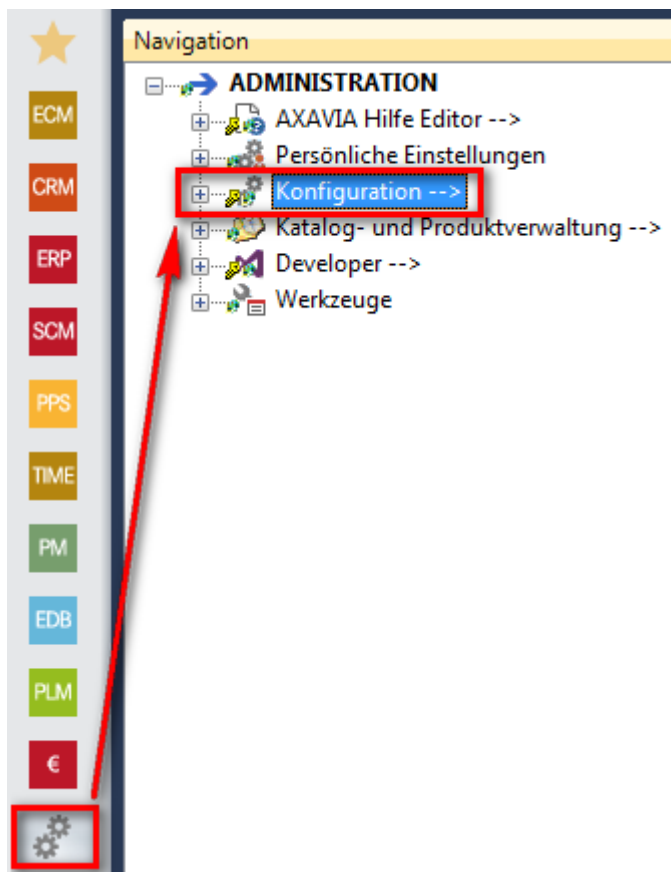


Please restart AXAVIA after import of packages or models.

3.3.1.5-Setting the base directory

In order to tell the system where your available documents in Axavia are stored, the home directory has to be defined. In other words, that working directory, which was created as a network share beforehand.

Log onto Axavia as "*admin*" and switch to the view schema "*ASD Configuration*" (double click on "*Configuration*") starting from the view "*ASD*" with the double gear icon.



4.99-Error

Below are possible errors.

4.99.1-

3.4-AXAVIAseries Service

3.4.1-AXAVIAseries Service Installation

The "AXAVIAseries service" is a service that runs on the server. This requires an installed "AXAVIAseries Desktop" on the server, as access to various program components is needed, depending on the tasks. This service is used as a base for other additional modules.

Tasks that can be performed by the "AXAVIAseries Service":

- Automatic full-text indexing at defined time intervals ("UpdateSearchIndex")
- Outlook synchronization ("AutoSyncObjects")
- Send email reminders ("NotificationService")
- execute Service jobs automatically ("ExecuteServiceJobs")

AXAVIAseries SERVICE Installation

The necessary files are copied to the program directory when you install "AXAVIAseries Desktop". To set up the service 3 files are required. These are located in the installation directory, which should be: "C:\Program Files (x86)\AXAVIA\AXAVIAseries"

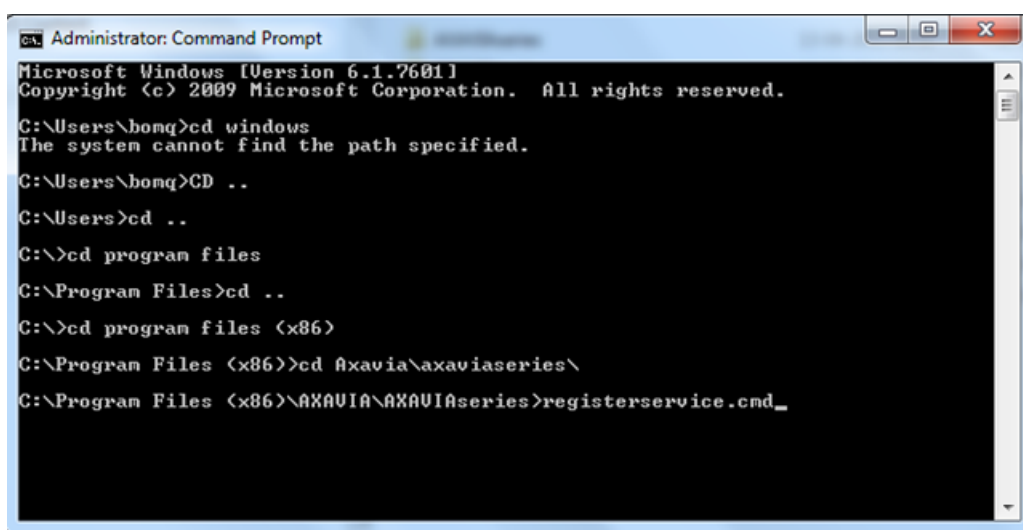
AXAVIAseriesService.exe

AXAVIAseriesService.config.xml

RegisterService.cmd

To install, double click the file "RegisterService.cmd" which registers the service (admin rights needed).

You also can do it with a command prompt (run as administrator)



```
Administrator: Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\homq>cd windows
The system cannot find the path specified.

C:\Users\homq>CD ..
C:\Users>cd ..
C:\>cd program files
C:\Program Files>cd ..
C:\>cd program files (x86)
C:\Program Files (x86)>cd Axavia\axaviaseries\
C:\Program Files (x86)\AXAVIA\AXAVIAseries>registerservice.cmd_
```

Installation of further instances:

The service can be installed multiple times under different names on a computer. This is done with the tool

"**installutil.exe**" and the parameters `"/servicename ="` and `"servicedisplayname ="`.

`"/servicename ="` is the name of the service . This name is needed for the configuration file `"*.config.xml"`. It has to begin with the servicename followed by `".config.xml"`.

Example:

C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727\installutil.exe AXAVIASeriesService.exe
`/servicename="AXAVIATestDB" /servicedisplayname="AXAVIA Service TestDB"`

Name for the config-file needs to be: **AXAVIATestDB.config.xml**

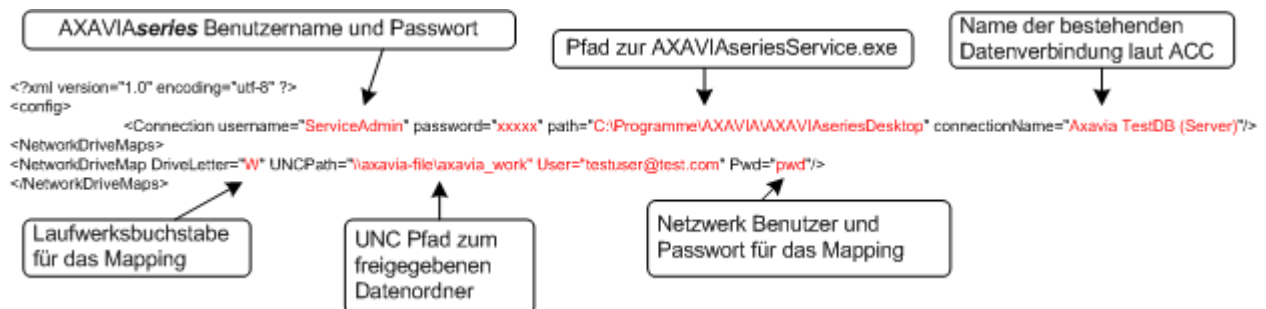
Please replace the .Net-version (v2.0.50727) with the one you have installed.

3.4.2-AXAVIASeries service configuration

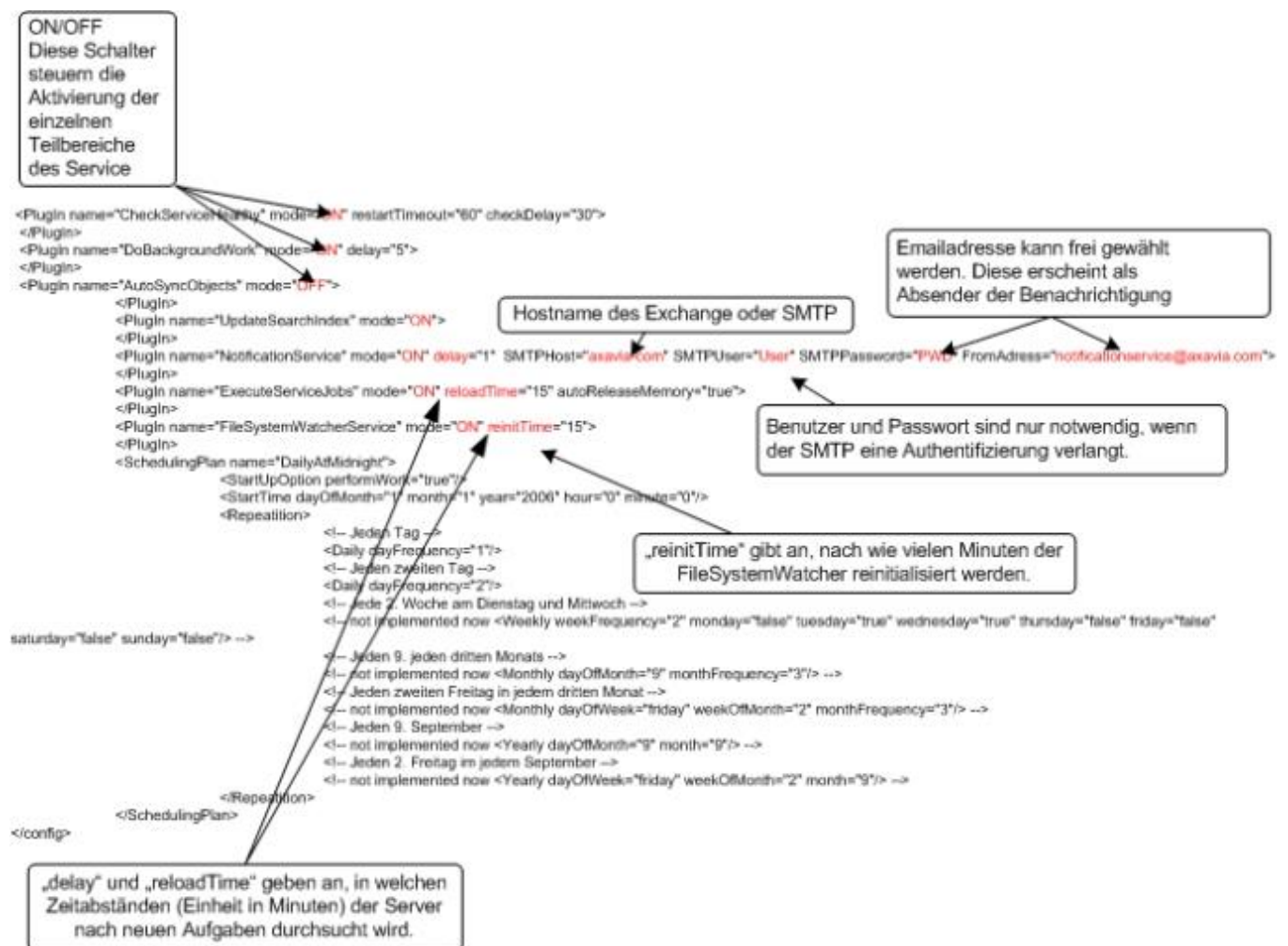
AXAVIASeries SERVICE Configuration

After registering the service, the configuration-file (e.g. „AXAVIASeriesService.config.xml“) needs to be edited for individual usage.

Axavia provides an example config-file "AXAVIASeriesService.config_sample.xml", which should be used and renamed.



Attention: The network user is independent of the AXAVIA user!



If the service can not start, check the rights of the account, with which the service is running. Maybe the service can't access the directory, where the "ACC"-file is stored or the config-file is not existing or wrong named.

3.4.2.1-

3.4.3-AXAVIAseries Service: automatic restart

If the service does not automatically restart after a server restart, there are some examples on the Internet of how this can be ensured in general.

For example, a simple method should be given.

A Windows task is created that regularly executes a BAT file. This BAT file checks all services and restarts the ones specified in them if they are stopped.

On the server, the directory "C:"temp" must be available or specify its own in the BAT file.

File "**Services-Health-Check.bat**"

```
Echo off
REM --- store all running services in dienste.txt---
net start > c:-temp-services.txt
REM --- Check if service is running ---
find "AXAVIAseriesService" services.txt
if errorlevel 1 goto WEG
if errorlevel 0 goto OK
goto END
:WAY
REM --- restart service and record date + time ---
net start "AXAVIAseriesService"
echo %date%%time% "AXAVIAseriesService" started >> C:-temp-restart.txt
goto END
:OK
goto END
:END
```

3.4.4-AXAVIAseries Service: automatic restart

If the service does not automatically restart after a server restart, there are some examples on the Internet of how this can be ensured in general.

For example, a simple method should be given.

A Windows task is created that regularly executes a BAT file. This BAT file checks all services and restarts the ones specified in them if they are stopped.

On the server, the directory "C:"temp" must be available or specify its own in the BAT file.

File "**Services-Health-Check.bat**"

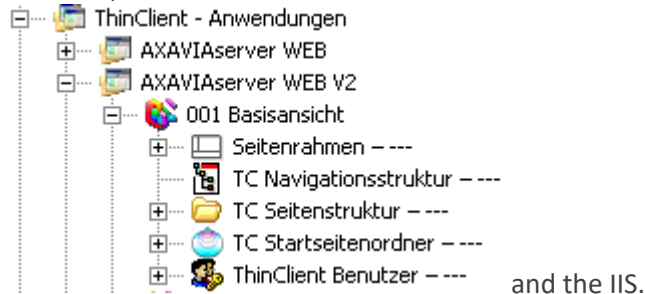
```
Echo off
REM --- store all running services in dienste.txt---
net start > c:-temp-services.txt
REM --- Check if service is running ---
find "AXAVIAseriesService" services.txt
if errorlevel 1 goto WEG
if errorlevel 0 goto OK
goto END
:WAY
```

```
REM --- restart service and record date + time ---  
net start "AXAVIAseriesService"  
echo %date%%time% "AXAVIAseriesService" started >> C:-temp-restart.txt  
goto END  
:OK  
goto END  
:END
```

3.5-AXAVIAseries Server

Axavia also offers the possibility (in limited form) to access the database via the web interface (ThinClient).

To do this, the website structure must be stored in Axavia (ThinClient application structure)



3.5.01-AXAVIAseries Server installation

In addition to the windows-based AXAVIAseries we also offers a web-based solution. Recent web-based technologies make it possible to operate AXAVIAseries over the Internet.

- Access to all enterprise data from any location on the earth with an Internet browser
- Integration of customers and suppliers into your business processes
- Strong process orientation by fixed sequences for processes
- No installation required on workstations

The base for the web platform can be "Microsoft Windows server" with Internet Information Server (IIS 5.0) or newer.

If the web platform "AXAVIAseries Server" is to be operated on a stand-alone server, first "AXAVIAseries desktop" needs to be installed.

To install the AXAVIAseries server, there is no need for automatical setup.

Just copy the content of the directory "\\AXAVIAseries DVD\\AXAVIAseries\\AXAVIAseries Server\\WebDir" into the desired subfolder at "C:\\inetpub\\wwwroot".

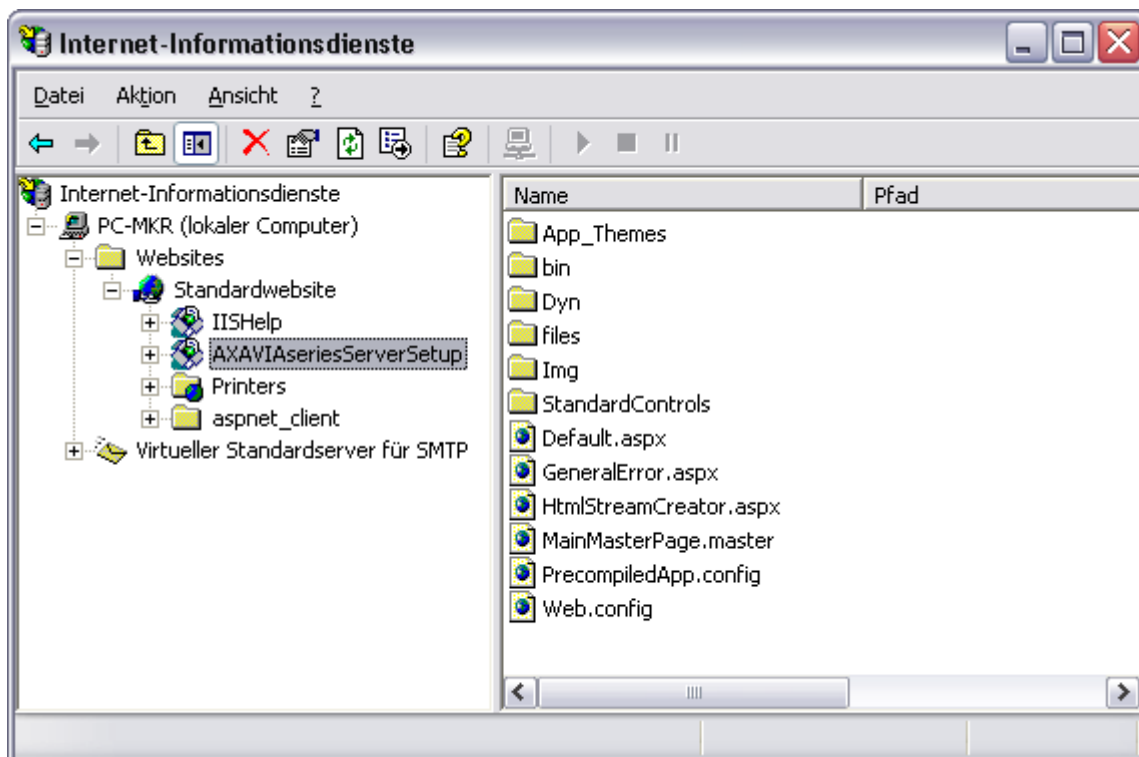
The subfolder is named, how your website should be named in IIS.

If the IIS (Microsoft Internet information server) was installed after the Microsoft .NET Framwork it is recommended to reinstall the .NET Framework including language pack with the repair function, since this could lead to problems.

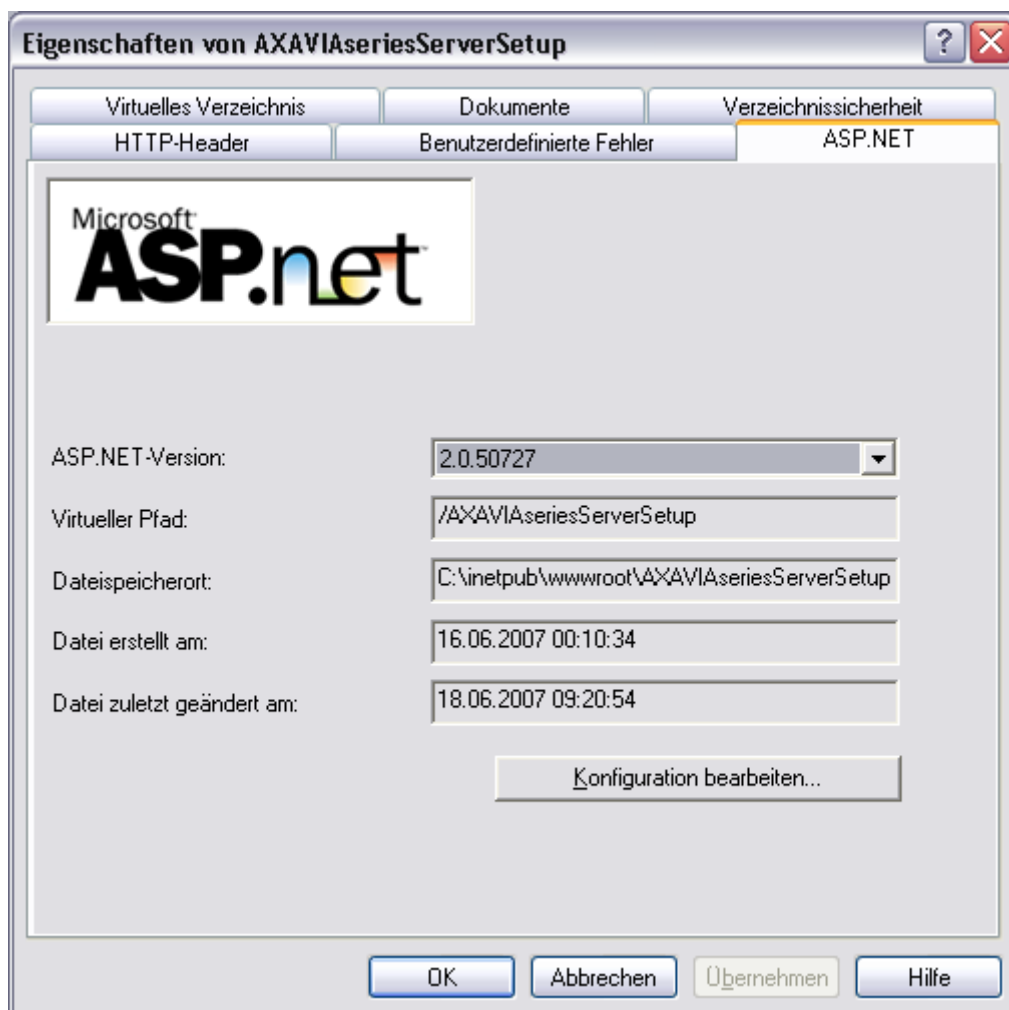
Additional tasks:

Add IIS to the frameworkversion:

Start the "Internet Informationservice" and browse to your Website.



Open the properties via right-click on the website and change the framework-version in tab "ASP.NET".



You can find Internetinformationservice (IIS)- Manager at "Start -> Management".

If it is not shown/installed, please do the next steps:

IIS activation:

- Start --> System --> Software
- Activate/Deactivate Windows-Functions
- Internetinformationservices
- Webmanagementtools --> activate all

ASP.net application for IIS to be installed:

- Start --> cmd(Run as administrator)
- Cd C:\Windows\Microsoft.NET\Framework\v4.0.30319
- Aspnet_regiis -ir
- ASP.net will be installed and registered

3.5.01.99-Known errors after calling the website

• HTTP-Fehler 500.21 - Internal Server Error

The handle "PageHandlerFactory-Integrated" shows the not valid modul "ManagedPipelineHandler" in modullist.

Serverfehler in der Anwendung "DEFAULT WEB SITE/AXAVIA"

Fehlerzusammenfassung

HTTP-Fehler 500.21 - Internal Server Error
Der Handler "PageHandlerFactory-Integrated" weist das ungültige Modul "ManagedPipelineHandler" in der Modulliste auf.

Ausführliche Fehlerinformationen

ModulIIS Web Core	Angeforderte URLhttps://localhost:443/AXAVIA	/default.aspx
BenachrichtigungExecuteRequestHandler	Physischer PfadC:\inetpub\wwwroot\AXAVIA	\default.aspx
HandlerPageHandlerFactory-Integrated	AnmeldemethodeAnonym	
Fehlercode0x8007000d	Angemeldeter BenutzerAnonym	

Wahrscheinlichste Ursachen:

- ASP.NET ist nicht oder unvollständig installiert.
- Die Konfiguration enthält einen Schreibfehler.
- Es existiert eine Vorbedingung wird mit negativen Folgen.

Mögliche Vorgehensweise:

- Wenn "ManagedPipelineHandler" fehlt, müssen Sie Folgendes sicherstellen:
 - "ManagedEngine" befindet sich in <globalModules>.
 - "ManagedPipelineHandler" befindet sich mit den richtigen Vorbedingungen in <handlers>.
- Installieren Sie ASP.NET.
- Stellen Sie sicher, dass sich alle "system.webServer/handlers@modules" in "system.webServer/modules@name" befinden.
- Überprüfen Sie die Vorbedingungen im Abschnitt <modules> und <handlers>.

Links und weitere Informationen

Der IIS-Kern erkennt das Modul nicht.
[Weitere Informationen anzeigen](#)

In this case please check the version of the installed .net framework. It needs to be installed explizitely for asp.net, too.

If the IIS (Microsoft Internet information Server) is installed after Microsoft .NET framwork, reinstall the .NET

framework including language packages with repair-function. Otherwise errors may occur.

You should re-register the framework, too.

The necessary steps are (as mentioned before during installation of IIS):

ASP.net application for IIS to be installed:

- Start --> cmd(Run as administrator)
- Cd C:\Windows\Microsoft.NET\Framework\v4.0.30319
- Aspnet_regiis -ir
- ASP.net will be installed and registered

• HTTP-Fehler 404.17 - Not Found

Der angeforderte Inhalt ist offenbar ein Skript und kann vom Handler für statische Dateien nicht angezeigt werden.

This can be caused by a new installation or re-registering the .NET framework. Please have a look to the applicationpools, maybe the .Net-Version needs to be downgraded.

The error can be shown, if the .NET version was lower before.

Fehlerzusammenfassung

HTTP-Fehler 404.17 - Not Found
Der angeforderte Inhalt ist offenbar ein Skript und kann vom Handler für statische Dateien nicht angezeigt werden.

Ausführliche Fehlerinformationen

Modul StaticFileModule	Angeforderte URL https://localhost:443/ /auth/login.aspx?url=https://localhost/ /&reason=0
Benachrichtigung ExecuteRequestHandler	Physischer Pfad : \Exchange Server\ClientAccess\ \auth\login.aspx
Handler StaticFile	Anmeldemethode Anonym
Fehlercode 0x80070032	Angemeldeter Benutzer Anonym

Wahrscheinlichste Ursachen:

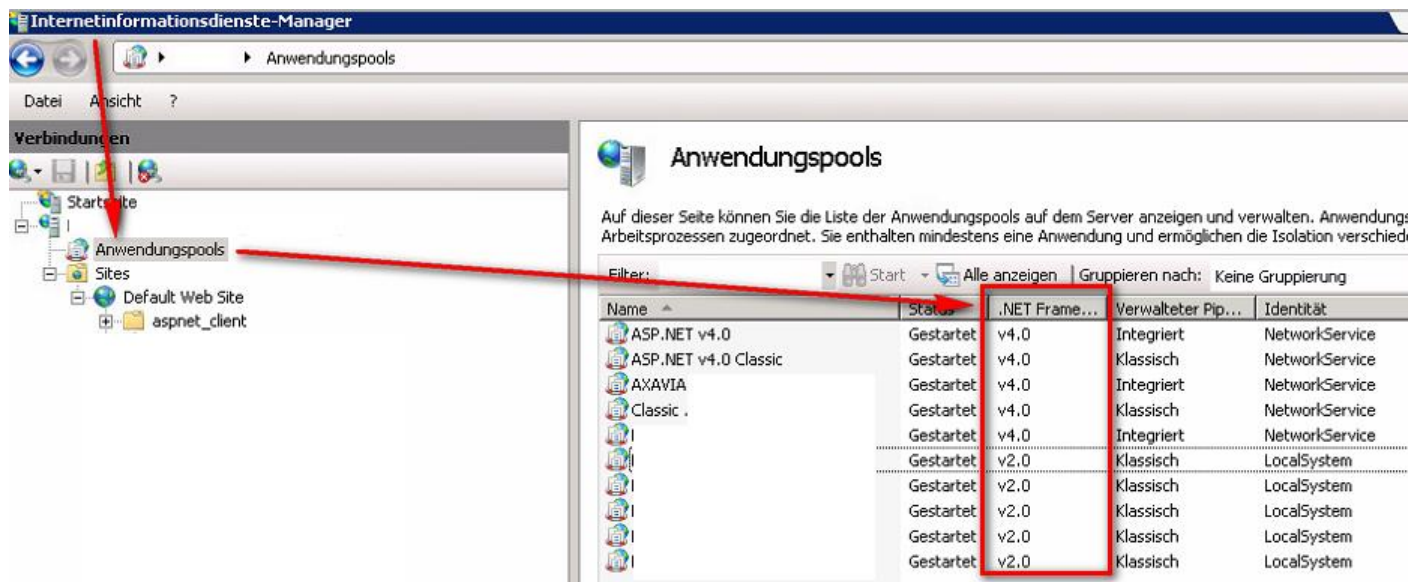
- Die Anforderung entspricht einer MIME-Zuordnung mit Platzhalterzeichen. Die Anforderung wird dem Handler für statische Dateien zugeordnet. Bei abweichenden Vorbedingungen würde Anforderung einem anderen Handler zugeordnet werden.

Mögliche Vorgehensweise:

- Wenn Sie diese Inhalte als statische Datei bereitstellen möchten, fügen Sie eine explizite MIME-Zuordnung hinzu.

Links und weitere Informationen

In manchen Fällen können Vorbedingungen und eine MIME-Zuordnung mit Platzhalterzeichen dazu führen, dass die Skriptquelle unbeabsichtigt ausgegeben wird.
[Weitere Informationen anzeigen »](#)



- **System.IO.FileNotFoundException: the file or Assembly "ThinClientDataInterface, Version=2.0.0.0, Culture=neutral, PublicKeyToken=00c5af0220531a9c" or The System can not find the specified file.**

System.IO.FileNotFoundException: Die Datei oder Assembly "ThinClientDataInterface, Version=2.0.0.0, Culture=neutral, PublicKeyToken=00c5af0220531a9c" oder eine Abhängigkeit davon wurde nicht gefunden. Das System kann die angegebene Datei nicht finden. **Dateiname: 'ThinClientDataInterface, Version=2.0.0.0, Culture=neutral, PublicKeyToken=00c5af0220531a9c'** bei
 System.Reflection.RuntimeAssembly._nLoad(AssemblyName fileName, String codeBase, Evidence assemblySecurity, RuntimeAssembly locationHint, StackCrawlMark& stackMark, IntPtr pPrivHostBinder, Boolean throwOnFileNotFound, Boolean forIntrospection, Boolean suppressSecurityChecks) ...

Session timeout

Die Datei oder Assembly "ThinClientDataInterface, Version=2.0.0.0, Culture=neutral, PublicKeyToken=00c5af0220531a9c" oder eine Abhängigkeit davon wurde nicht gefunden. Das System kann die angegebene Datei nicht finden.

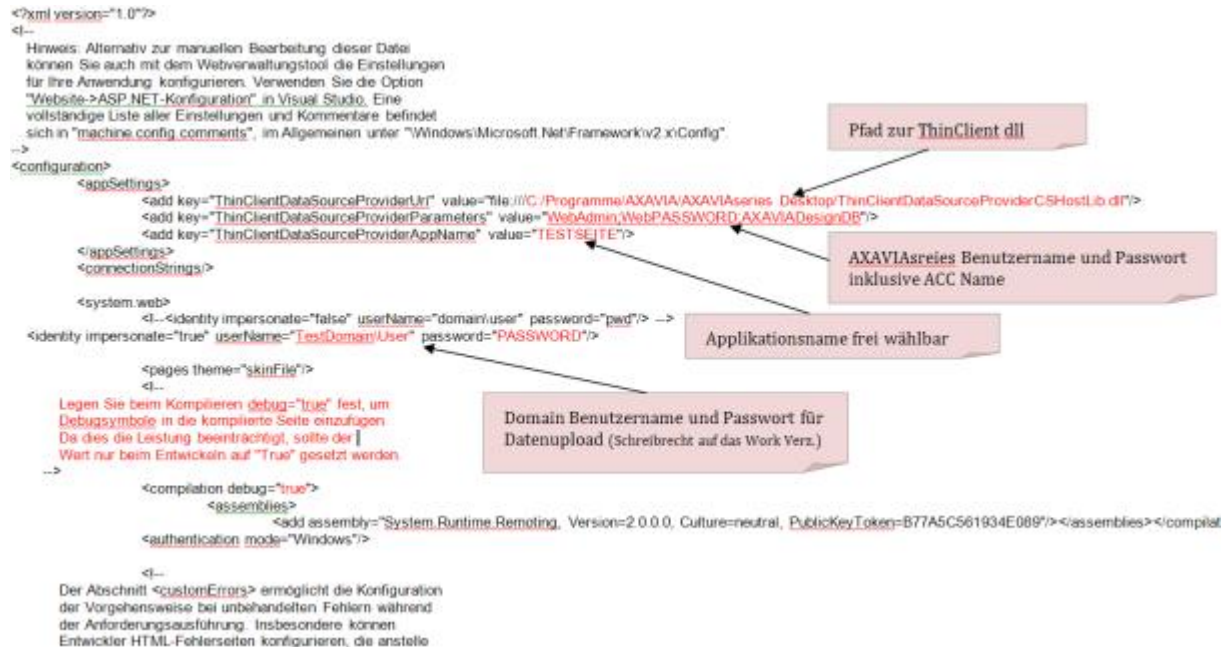
[Relogin](#)

Check the setting in the "Web.config". Especially the path to "ThinClientDataSourceProviderCSHostLib.dll".

3.5.02-AXAVIASeries Server configuration

Customizing the Web server configuration file: (the subfolder of "wwwroot" may vary)

Under the path "C:\Inetpub\wwwroot\AXAVIASeriesServerSetup" there is the "Web.config" file. Please open it with an editor and adjust the 4 parameters as shown in the next picture to your recommendations.

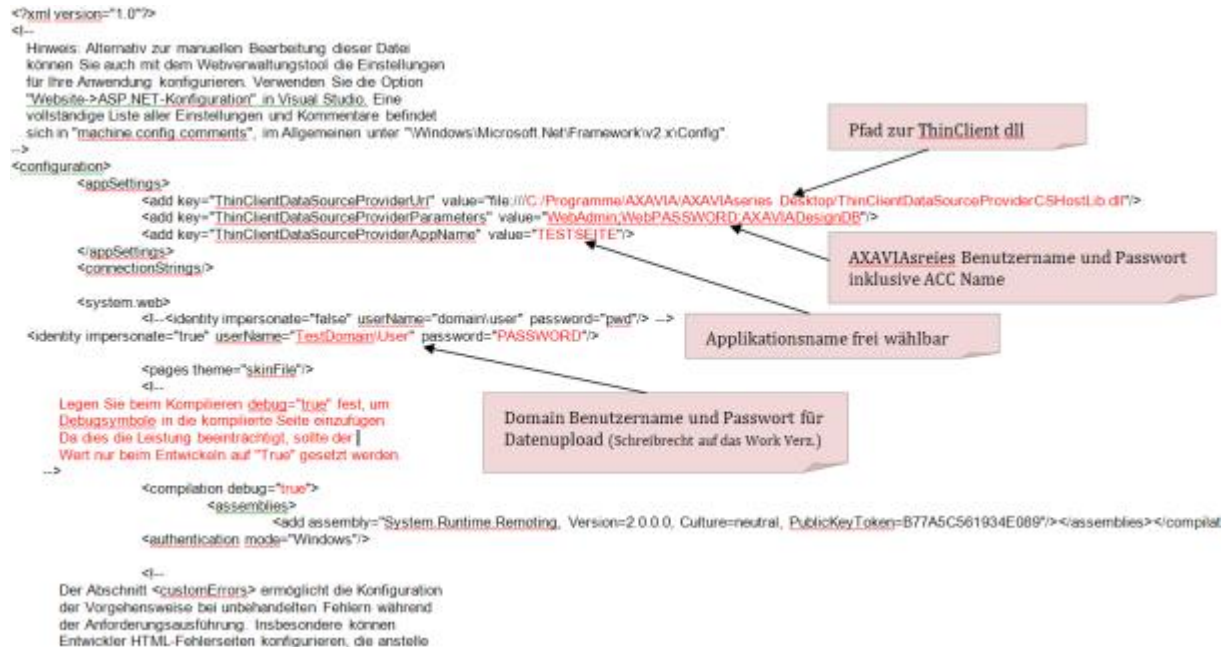


IMPORTANT: Impersonate-user NEEDS TO BE a domain-user with the necessary permissions to have access to the network-shares/drives.

3.5.02-AXAVIASeries Server configuration

Customizing the Web server configuration file: (the subfolder of "wwwroot" may vary)

Under the path "C:\inetpub\wwwroot\AXAVIASeriesServerSetup" there is the "Web.config" file. Please open it with an editor and adjust the 4 parameters as shown in the next picture to your recommendations.



IMPORTANT: Impersonate-user NEEDS TO BE a domain-user with the necessary permissions to have access to the network-shares/drives.

3.7-AXAVIAsecurity Service

The steps to set up the AXAVIAsecurity Service are presented below.

3.7.01-Configuration AXAVIAsecurityService

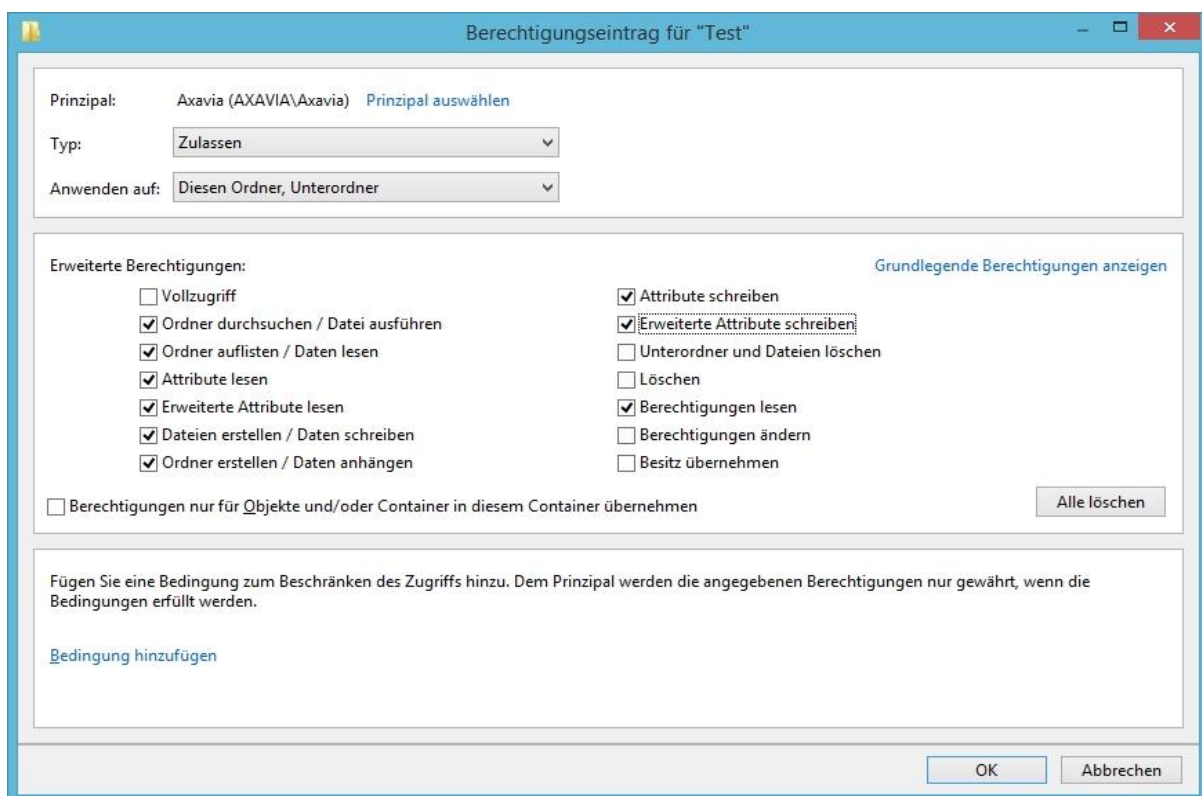
Own Windows service for AXAVIAseries DMS authorization system.

Via this service the read permission is set on the NTFS. Windows user is the user name (s) registered with the Axavia user in the "OS User name (OS_USERNAME)" field.

If nothing is entered, the user currently logged on to the operating system will be used.

The AXAVIAsecurityService only sets file permissions.

The permissions for the share and the folders below must be assigned manually once.



When you access a file, the existing AXAVIA permissions on the file system are set.

Reading a file resets the write permissions on this file.

Preparations in the AXAVIAseries:

For each user account in AXAVIAseries, the field "OS login authentication (USE_OS_AUTHENTICATION)" checked (optional, not absolutely necessary for the service) and "OS User name (OS_USERNAME)" are set to

the respective OS user name (mandatory field) (mandatory) (eg suser - WITHOUT a domain in the name.

The domain (if it is a domain user name) can be stored in the "OS domain name (OS_DOMAINNAME)" field. If the domain is not specified, a local user name is assumed.

User name	hkr_en
Login name	---
OS login authentication	☒
OS user name	hkr_en
Full name	---
OS domain name	mydomain

Install the service:

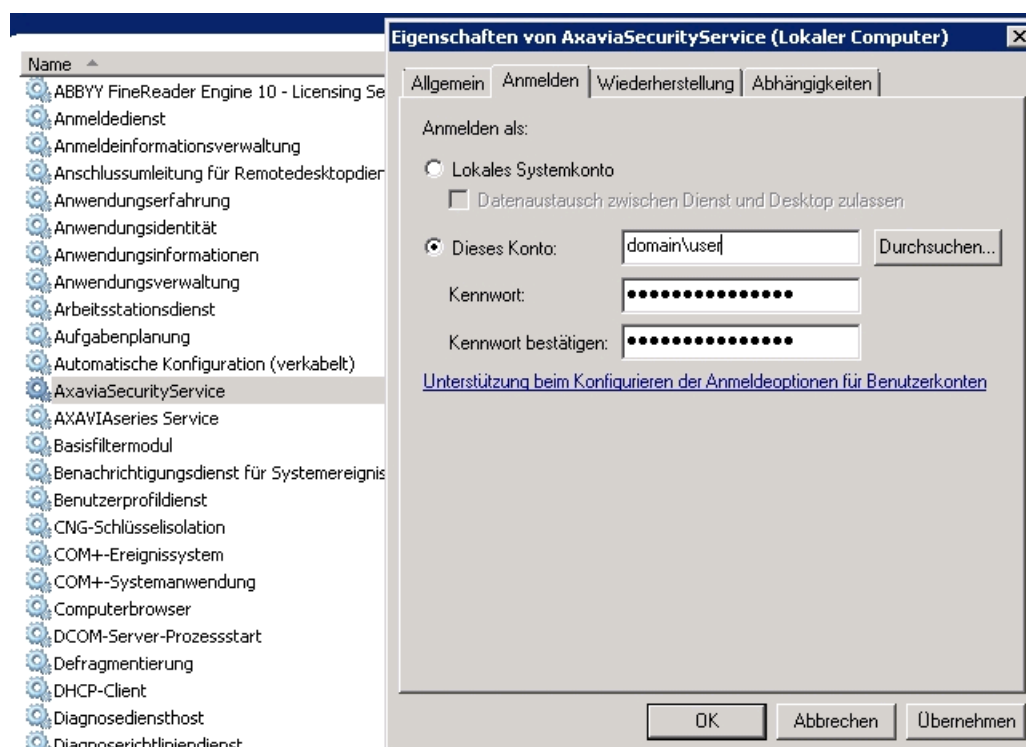
- Installing the AXAVIAseries on the server, ideally always where the base directory is!

This will help you avoid network-related performance losses because otherwise the service would need to write the rights over the network.

- Install the "AXAVIAsecurityService" service on the server using the file "RegisterSecurityService.cmd" in the "AXAVIAseries" directory
- Change the logon account of the service to a user who has full access to the AXAVIAseries vault.
- Start the service

The setup directory contains the file "RegisterSecurityService.cmd". This must be installed on the server where the service is to run via the console (run as admin) (first start console, then navigate to the directory and run the file).

For the services, the service is now visible, but not yet started. First, a user must be entered in the properties, who has the authorization to set and implement the permissions on the file system under Windows. In the tab "Log in" you have to enter this:



Enable the AXAVIAsecurity:

At "Root (_ROOT)" under the tab "DMS options" enter the server name at "AXAVIAsecurity service host (AXAVIASECURITYSERVICEHOST)" and activate the check mark "Use AXAVIAsecurity Service (USEAXAVIASECURITYSERVICE)".

Call the function "Set File Permissions" on the root directories (document storage, project structure, ...). This sets the permissions on the vault as defined in the AXAVIAseries

971 - DMS options

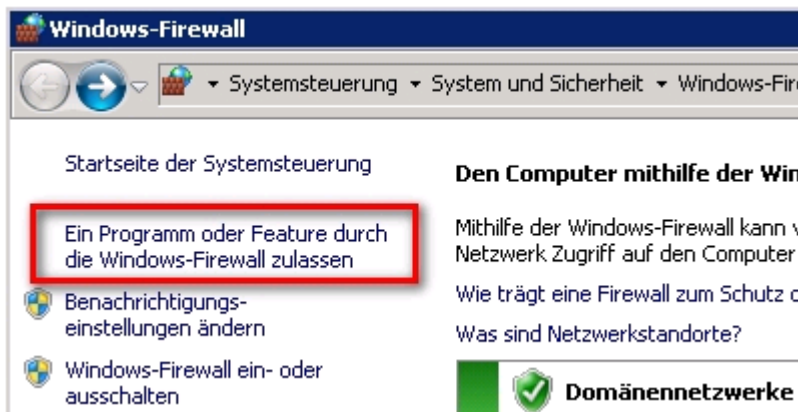
Use AXAVIAsecurity Service	☒
AXAVIAsecurity service host	AXAVIA-SERVER

Configure Firewall:

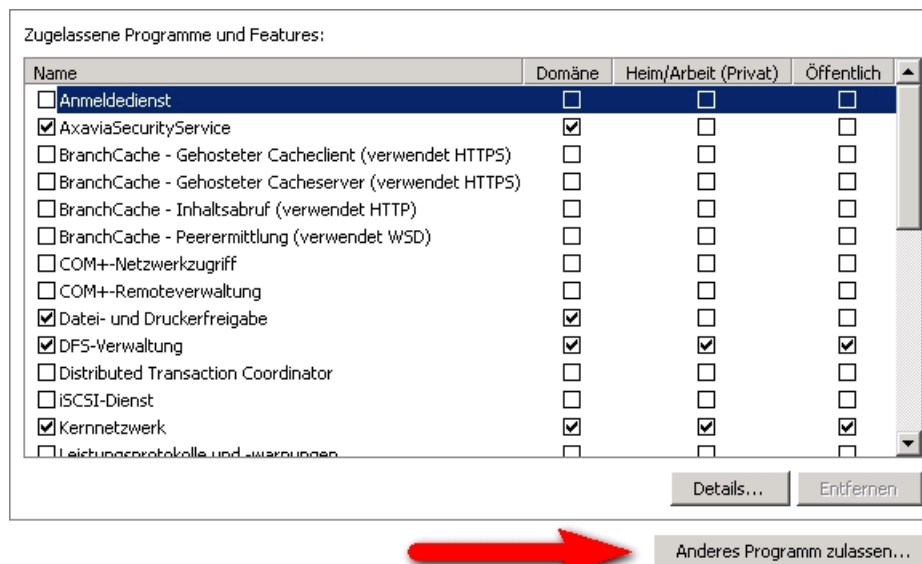
In order to be able to access the service on the server, the firewall may still have to be configured.

Simply start the "Windows Firewall" application on the server

Here is the following function:



In the dialog that opens, the exe file of the AXAVIASecurityServices must be allowed. With "Allow another program" the Windows Explorer is opened, where the exe-file has to be searched. (Stored in the AXAVIA setup folder under Modules \ DocumentManagement \ V1.0 \ AxaviaSecurityService.exe).



The program should now appear in the list (see above image)

Finally, the tick in the column Domain must be set.

Now the authorizations should be able to be set on the file system via AXAVIA.

Set permissions

The setup is now complete, but the permissions of each file or folder must be set. Permissions are set as usual via the appropriate window (permissions) or via right-click -> edit permissions. When reading in and reading out a file, the authorization is then written out to the file system. For document folders, there is the menu item "Set File Permissions".

Disable user for Security service

If Windows users are no longer available (eg: employee leaves company), the value "User name in the operating system (OS_USERNAME)" in Axavia must also be changed to "User account (_USERACCOUNT)" or undefined and the user must be set to "Obsolete (OBSOLETE) ".



Workflow -> set obsolete

Otherwise, the SecurityService tries to write the permissions for this domain user to the file system, which does not exist. Therefore, an error message is continuously generated in the event log.

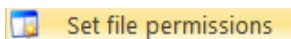
On the other hand, an unchecked "Authenticate via operating system login (USE_OS_AUTHENTICATION)" in combination with a set name for "User name in the operating system (OS_USERNAME)" does NOT prevent the authorizations from being written.

TIP: It is best to uncheck "*Authentication via operating system login*" if the "*OS User name (OS_USERNAME)*" is undefined.

3.7.01.1-FAQ (AXAVIAsecurtiy Service)

- **Can I set up this "retrospectively" without further ado? Will all authorizations for all files be revised?**

Yes, it can also be set up later. The Windows user with whom the service is running must have full rights to the base directory. When accessing the file, the authorization is then set. It is advisable, however, in advance to the root folder of the base directory "document storage" in Axavia to call the function "Set File Permissions" and once to let all rights set.



Thus, possible problems can be identified in advance. So should be activated first in the test database.

Furthermore, it is absolutely necessary: in Axavia, the user must have deposited the Windows user, so that the connection between Windows user and Axavia user is established. Otherwise setting the authorizations will not work. Ideally, the operating system login is used.

- **Does it matter on which server it runs? So Server Vault can be different to Server Security Service?**

Theoretically yes, for performance reasons, the SecurityService should run sort, where the base directory is located. Axavia must be available there and full access to the home directory must be given.

- **What impact does this have on performance?**

With each file access, the permissions are set according to Axavia under Windows. This will not make it "faster" if the service is not running where the home directory is. It has little effect on performance.

- **Are all derived objects of DOCUMENT be processed?**

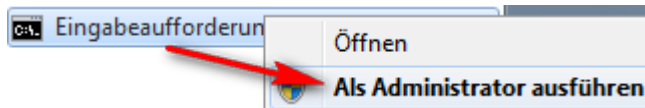
Yes, its derivatives are included.

3.8-Silent Setup with .msi

Some preparation is required to silently install and carry out confirmations for individual clients without registration.

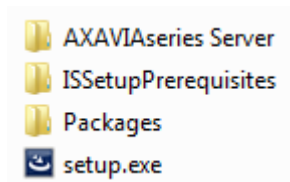
3.8.0-Extract the MSI-file

Start a command-prompt (run as admin) .

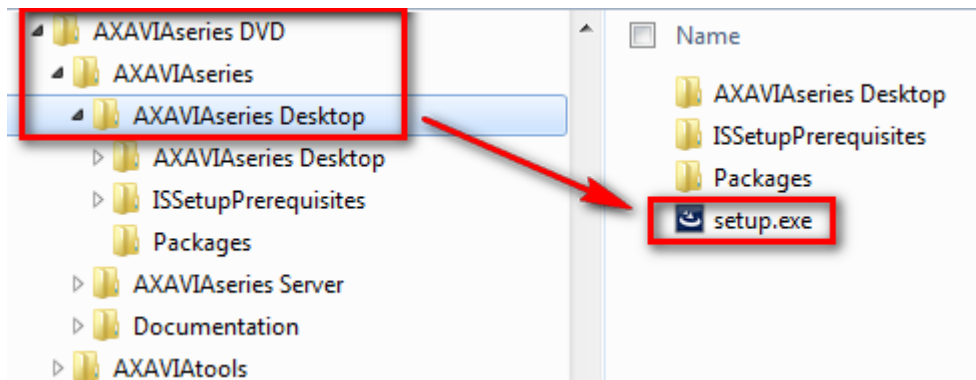


Change directory to the one, where you stored "*setup.exe*" of Axavia-software.

In case of release-builds you will find the "*setup.exe*" in such a directory structure:



If you use the DVD, please navigate to the necessary subfolder:



Extraction of ".msi" out of "setup.exe" (creates "AxaviaSeries.msi" in the current directory: /b".")

```
setup.exe /s /x /b"."
```

Note:

Please be sure, in the current directory the file "AxaviaSeries.msi" is not existing.

After launching the command, it may take some time until a reaction/pop-up window appears.

The command console may give the impression that nothing would happen. Please be patient.

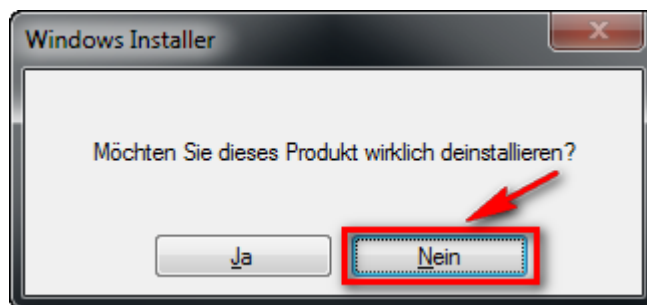
```

Administrator: Eingabeaufforderung (Admin)
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. Alle Rechte vorbehalten.

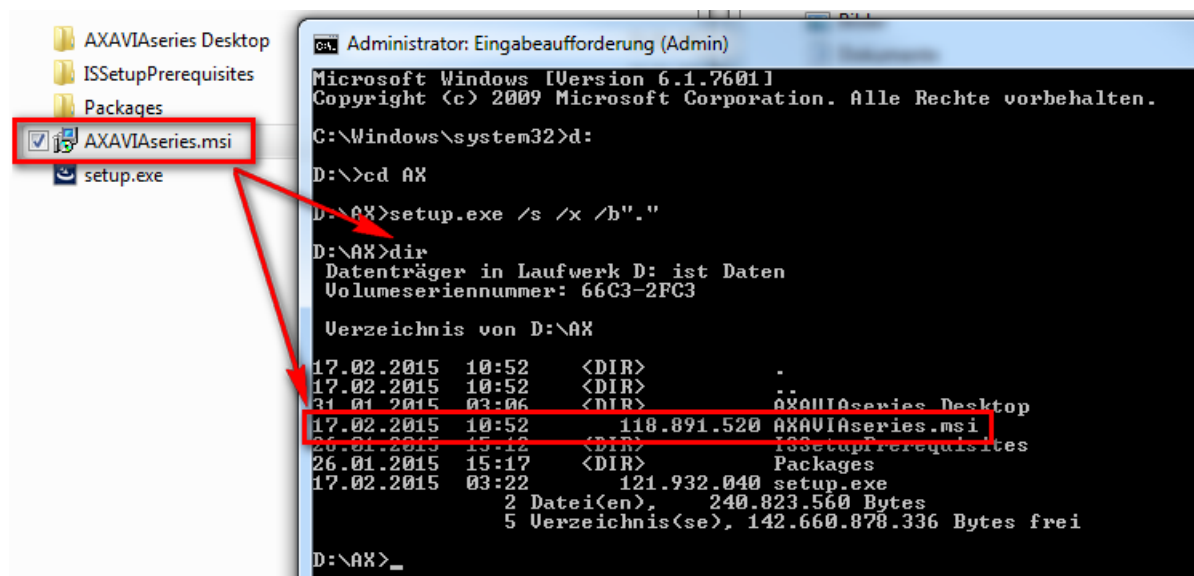
C:\Windows\system32>d:
D:\>cd AX
D:\AX>setup.exe /s /x /b"."
D:\AX>_

```

You will be asked to be sure to uninstall the current version, answer with "NO".



Then please watch the extraction directory, there is NO additional message that the ".MSI" was extracted.



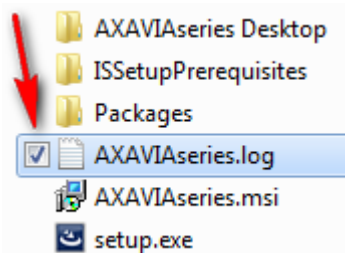
3.8.1-Create Install log file to obtain feature names

Start "msiexec" and choose desired features via GUI (grafical user interface):

```
msiexec /i "AXAVIASeries.msi" /L*V "AXAVIASeries.log"
```

Therefore it is necessary to install AXAVIA at least once via GUI-setup (see ["DataObject:c677159f-2afd-4660-8328-aaa14db5811a99 – Hands on experience: Silent Setup"](#)).

After this step you should get a complete "AXAVIASeries.log"-file in the directory of the MSI-file.

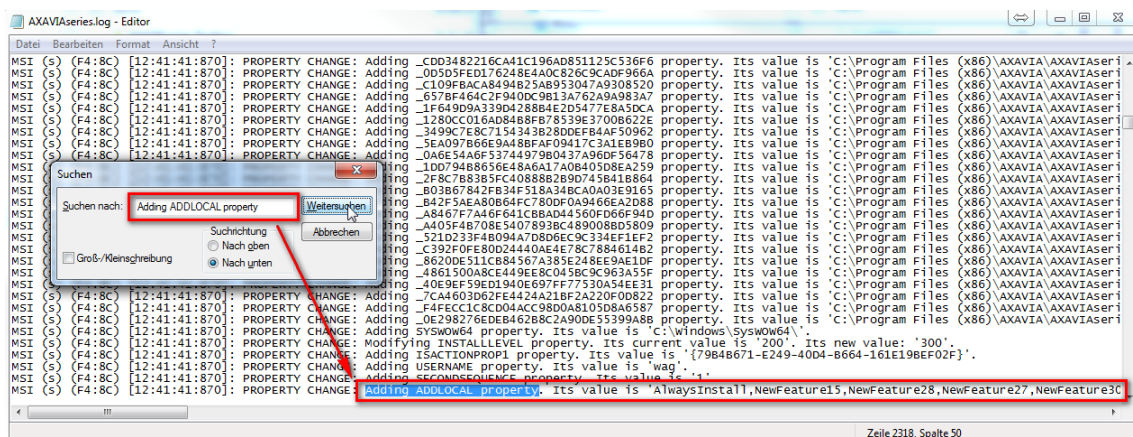


Open the LOG-file,

search for "Adding ADDLOCAL property." inside the log-file. This is the place where internal names of the installed features are listed.

Example:

Adding ADDLOCAL property. Its value is 'New_Feature,AlwaysInstall,New_Feature4,New_Feature5'



The features listed in the LOG-file you use for the silent-setup (the part between the quotation marks):
'AlwaysInstall,NewFeature15,NewFeature28,NewFeature27,NewFeature30,.....'

Attention: The features depends on the used platform. For the same choice of features with GUI-installation, different internal features are installed on x86 and x64 systems. Therefore you need to do the steps separate on x86 and x64 systems AND create batch-files for x86 and x64 systems, if exists.

Example: x86 und x64 - systems are used, so install once on each system the setup to get the necessary

feature list.

Note:

A current list of internal features. **Only an example**, it can vary in other versions of Axavia!

Feature	FeatureParent	Title
AlwaysInstall		install always
NewFeature1	New_Feature	SolidWorks2012,2013
NewFeature10	NewFeature15	AutoCAD2010(x64)
NewFeature11	New_Feature	Visio2007
NewFeature12		x64Additions
NewFeature13	NewFeature15	AutoCAD2009(x64)
NewFeature14	New_Feature	AutoCAD2013P&ID,Plant3d
NewFeature15		CADPlugins(x86&x64)
NewFeature16	NewFeature15	AutoCAD2013(x64)
NewFeature17	NewFeature15	AutoCAD2004,2005,2006
NewFeature18	NewFeature15	AutoCAD2007,2008,2009
NewFeature19	NewFeature15	Visio2007
NewFeature2	NewFeature15	SolidWorks2012,2013(x64)

3.8.3-Execution of the MSI-file

After setting the environment variable, run the MSI.

This can be started with desired or all features.

- ALL features: `msiexec /i "AXAVIAseries.msi" /quiet ADDLOCAL="ALL"`
- FEATURE-collection (exaple): `msiexec /i "AXAVIAseries.msi" /quiet ADDLOCAL="AlwaysInstall,NewFeature12,NewFeature15,NewFeature15"`

Attention! The necessary internal feature-names are different for x86 and x64 Systems.

(see at: [DataObject:3deffd4a-d7f1-4b43-a68a-6d040b9d11ae03 – Create Install log file to obtain feature names](#))

The LOG-file you ALWAYS need! Even for complete installation.

If problems occur, you can set the path to "msiexec.exe" completely or in combination with systems-variable.
"%SystemRoot%\system32\msiexec.exe"

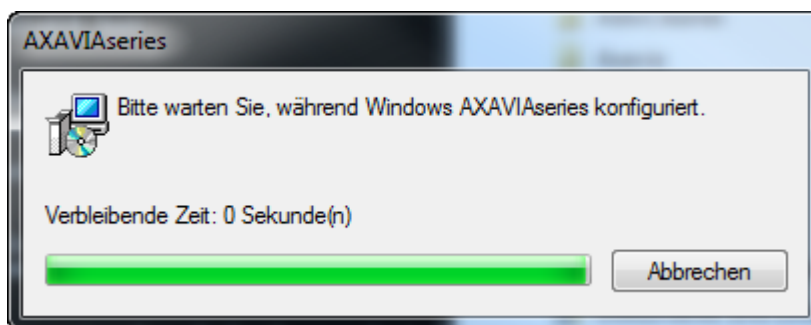
With other parameters you can control wheter the user shall get some informations during the silent setup.

(to list all possible options just start "msiexec.exe" without parameters)

/quiet ... no output displayed

/qn ... no output displayed (as /quiet)

/qb ... simple outputs

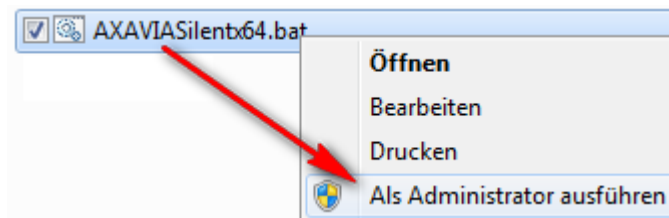


/qr ... reduced outputs (some windows, but no possibility for inputs)

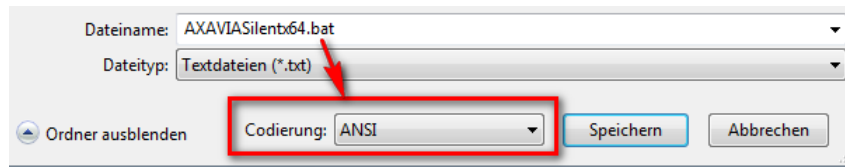
Note:

msiexec needs to be startet with admin rights.

Example.:



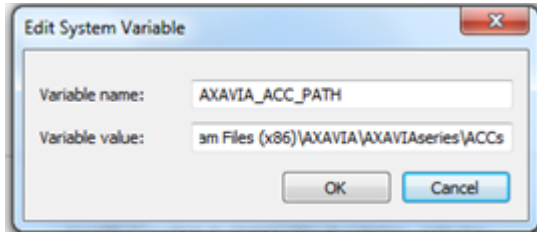
Important: The Batch-file has to be saved with ANSI-Codeing!



3.8.3-Set the environment variable for database connections

First set the system variable "AXAVIA_ACC_PATH" to a path with at least one valid ACC-file.

Example: "AXAVIA_ACC_PATH = c:\ACC" and in "c:\ACCs" the ACC-file "Text.acc" is stored.



This can also be a UNC path if the setup environment has access to it.

A Note to ACC-path and how to set environment variables:

The ACC-files contain the database connection information:

- Server name (and optionally the name of named SQL Server instances)
- Database name
- SQL-Server username
- SQL-Server Password

After installation the ACC-files are in principle in the directory "ACCs" in the installation-directory (e.g. C:\Programme\AXAVIA\AXAVIAseries\ACCs))

If the files are stored in other directories, this location can be set by using the environment variable "AXAVIA_ACC_PATH".

This can be stored for all users on a system environment variable or a user (related) environment variable.

Setting the user-specific environment variable does not require higher privileges. Thus, even temporarily, for example, for training purposes, the ACC-path can be changed. After removing these user-specific environment variable, the system environment variable affects again.

At Windows -> Start -> "search programs/files" search for "environment variable" and select "edit environment variables for this account".



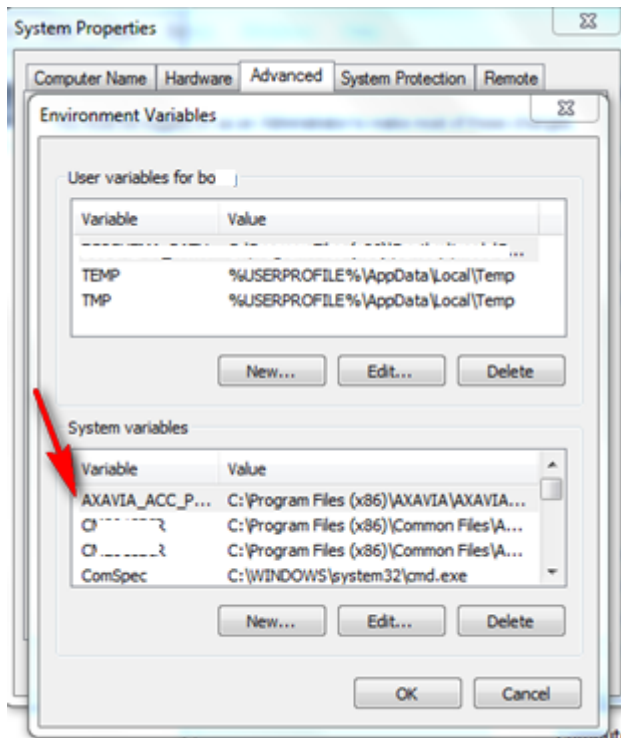
In the opened windows you can set the user-specific or system-wide valid variable (admin rights needed).

You also can do it via command-prompt:

user variable: `setx AXAVIA_ACC_PATH "C:\Temp"`

system variable: `setx /m AXAVIA_ACC_PATH "\\IP-Address or Networkshare\ACC-folder"`

For example:



3.8.4-Hands on experience: Silent Setup

Below a practice run of an unattended (silent) installation is shown.

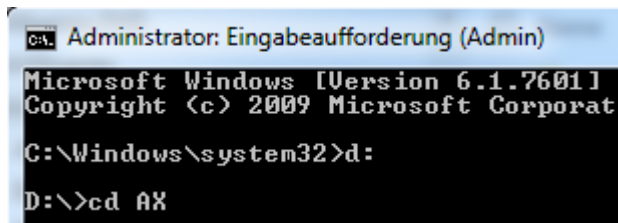
Steps correspond to those of the tutorial.

3.8.4.1-MSI extracting

Open a command-prompt with higher rights (run as admin) .

Change to the directory, where "setup.exe" of Axavia is located.

In the following example the install-files are copied in a subfolder called "AX" to get shorten pathes.

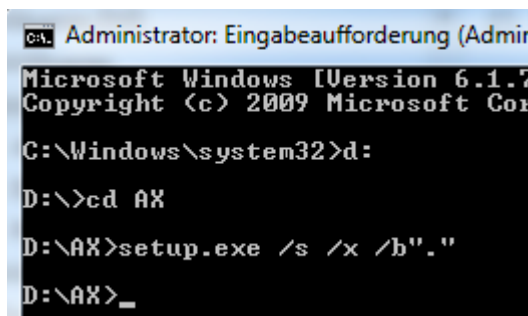


```
Administrator: Eingabeaufforderung (Admin)
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation

C:\Windows\system32>d:
D:\>cd AX
```

Enter the extraction-command:

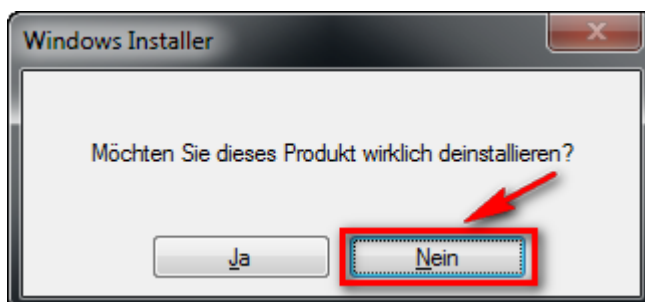
setup.exe /s /x /b"."



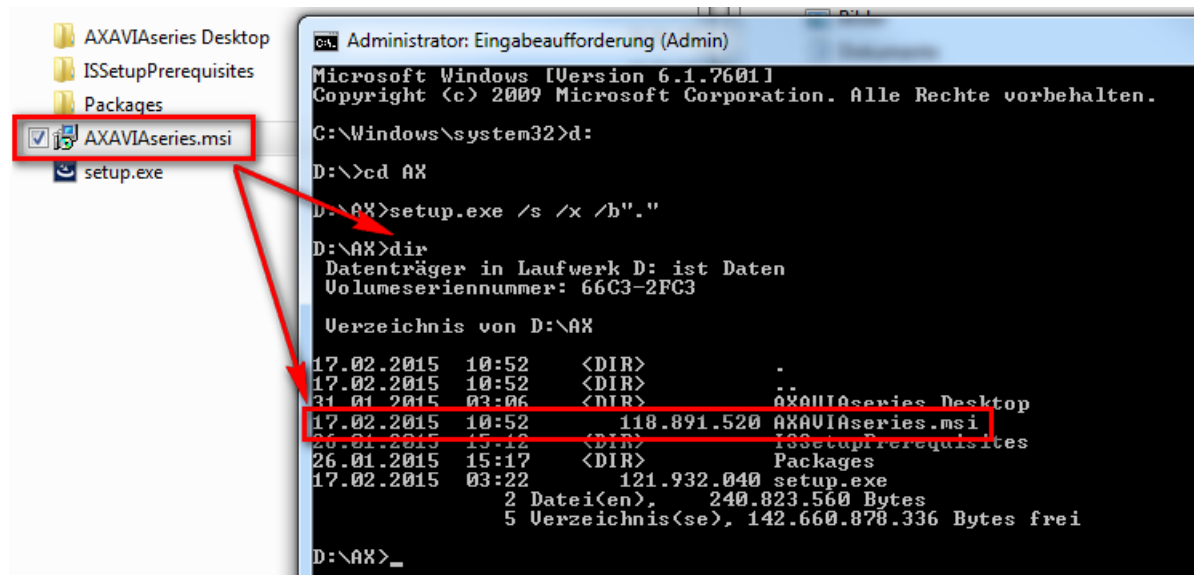
```
Administrator: Eingabeaufforderung (Admin)
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation

C:\Windows\system32>d:
D:\>cd AX
D:\AX>setup.exe /s /x /b"."
D:\AX>
```

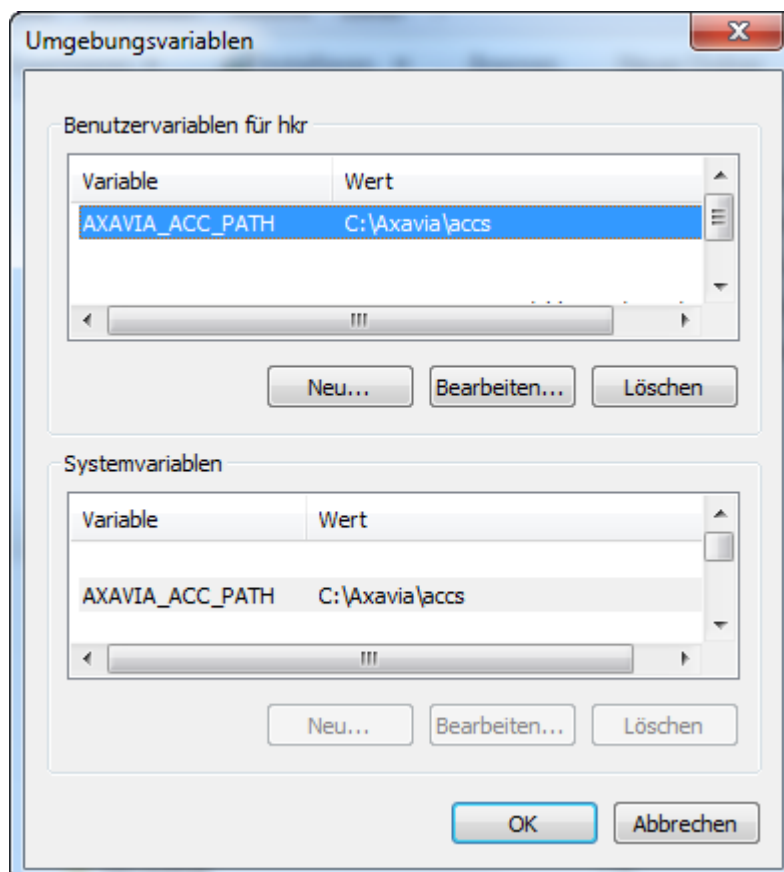
After a couple of time a message window is shown: click "NO" (means: don't uninstall the software)



Check directory, wheter the extraction was successful.



3.8.4.2-Environment variables checking



3.8.4.3-Create LOG-file (for plugin-/featurelist)

The installation is performed with only a choice of features.

Therefore we need a log-file which shows the needed features, we write down at the silent-setup-batch-file.

Start AXAVIA setup via GUI as shown next.

Call "msiexec" and install desired features/plugins via GUI:

```
msiexec /i "AXAVIASeries.msi" /L*V "AXAVIASeries.log"
```

```
D:\AX>msiexec /i "AXAVIASeries.msi" /L*U "AXAVIASeries.log"
```

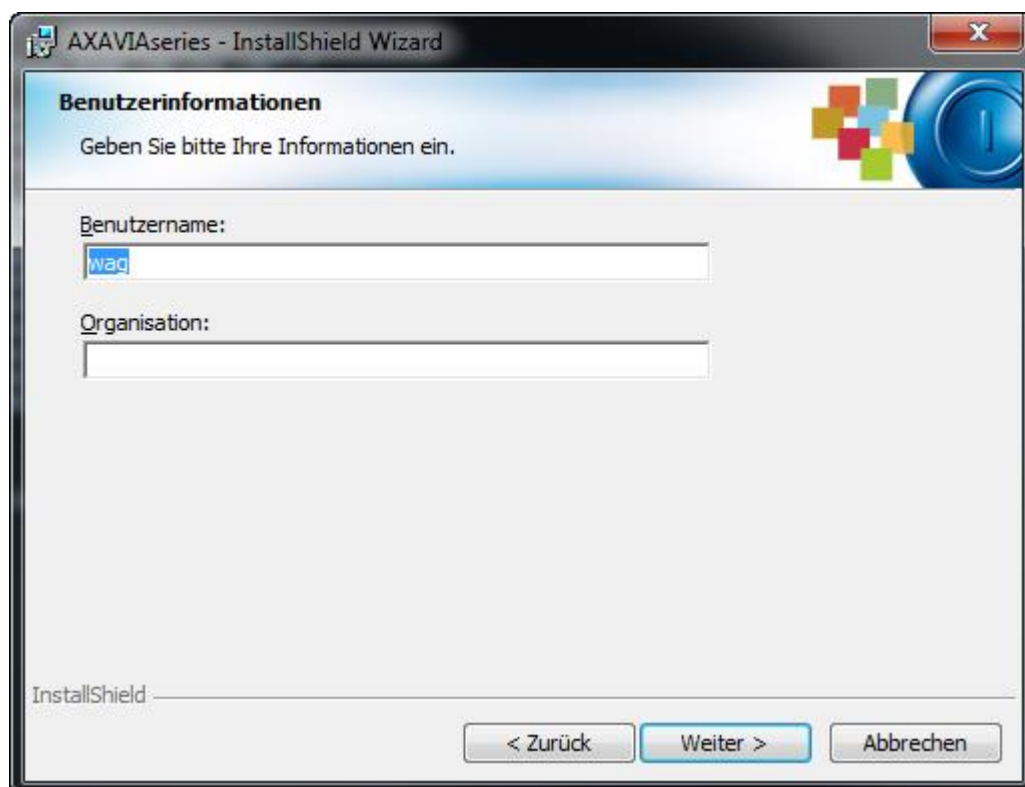
following message-dialogs are shown during setup:



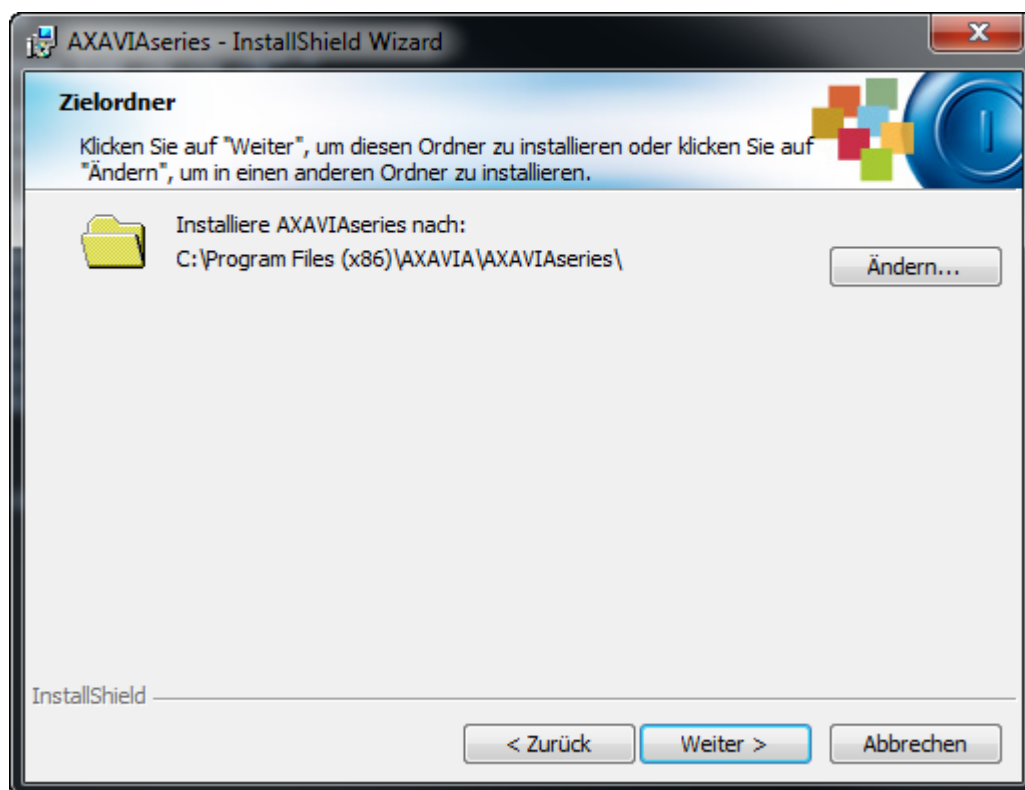
continue...



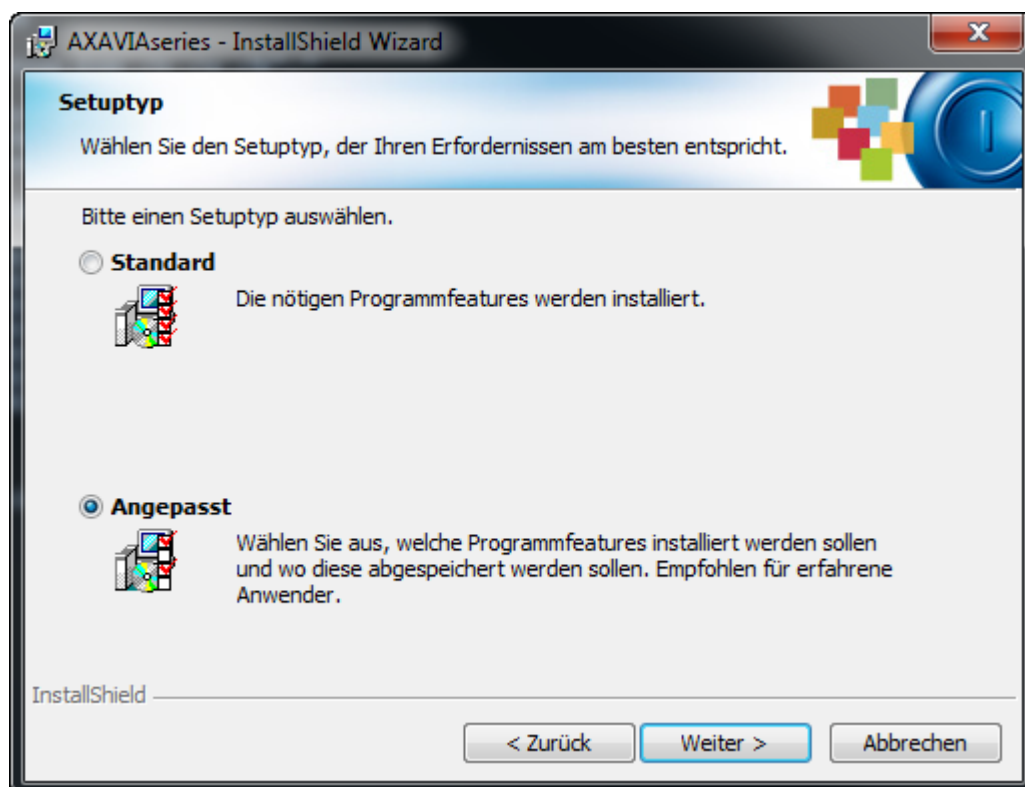
accept the licences -> continue ...



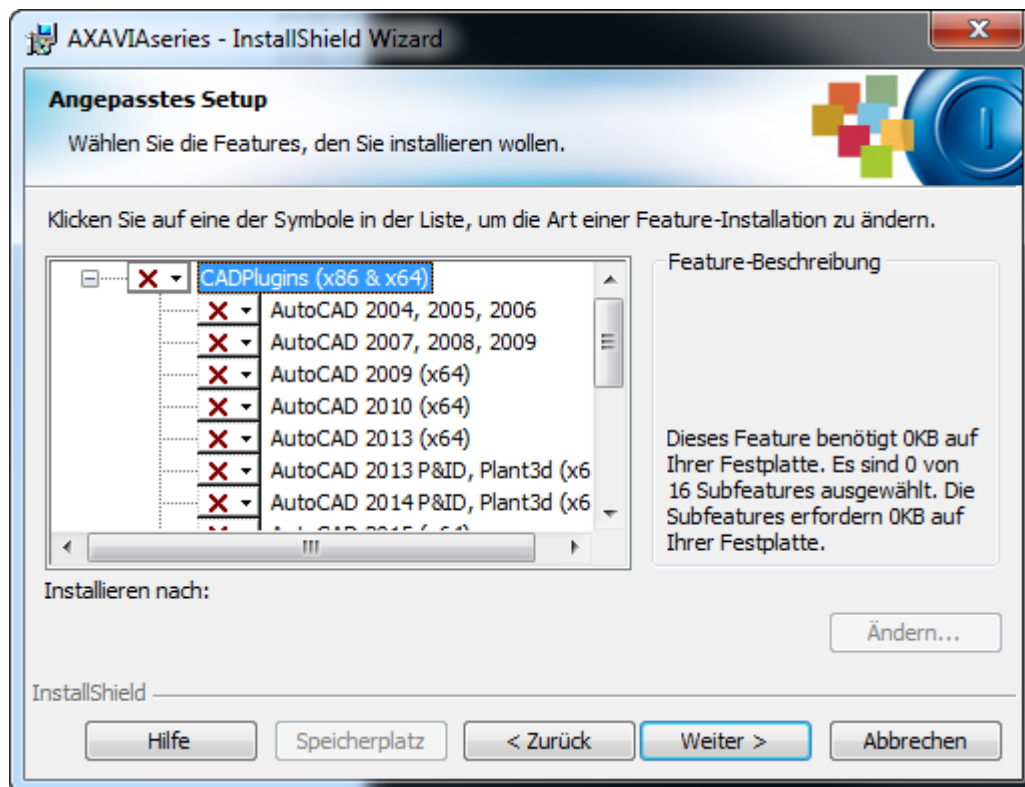
check user information -> continue...



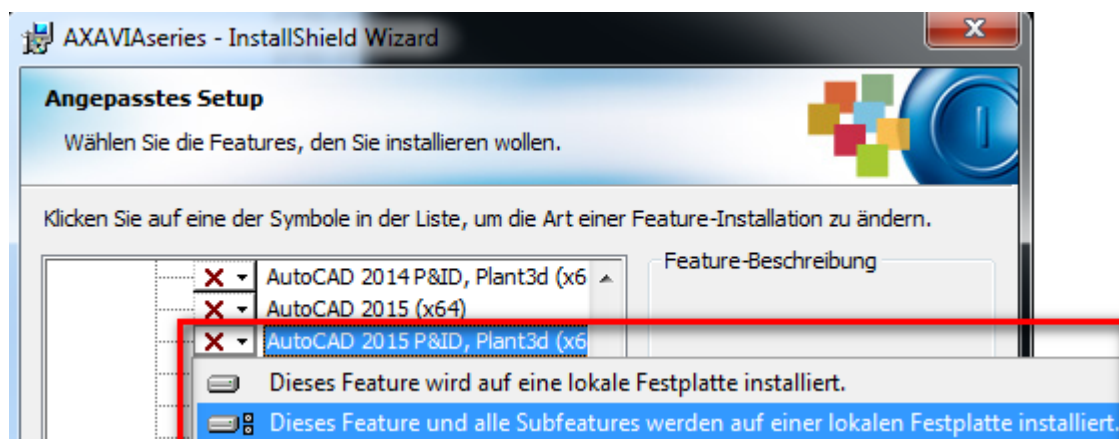
Installationspfad kontrollieren (meist ist er der Standard-Pfad, seitens AXAVIA empfohlen) -> Weiter ...



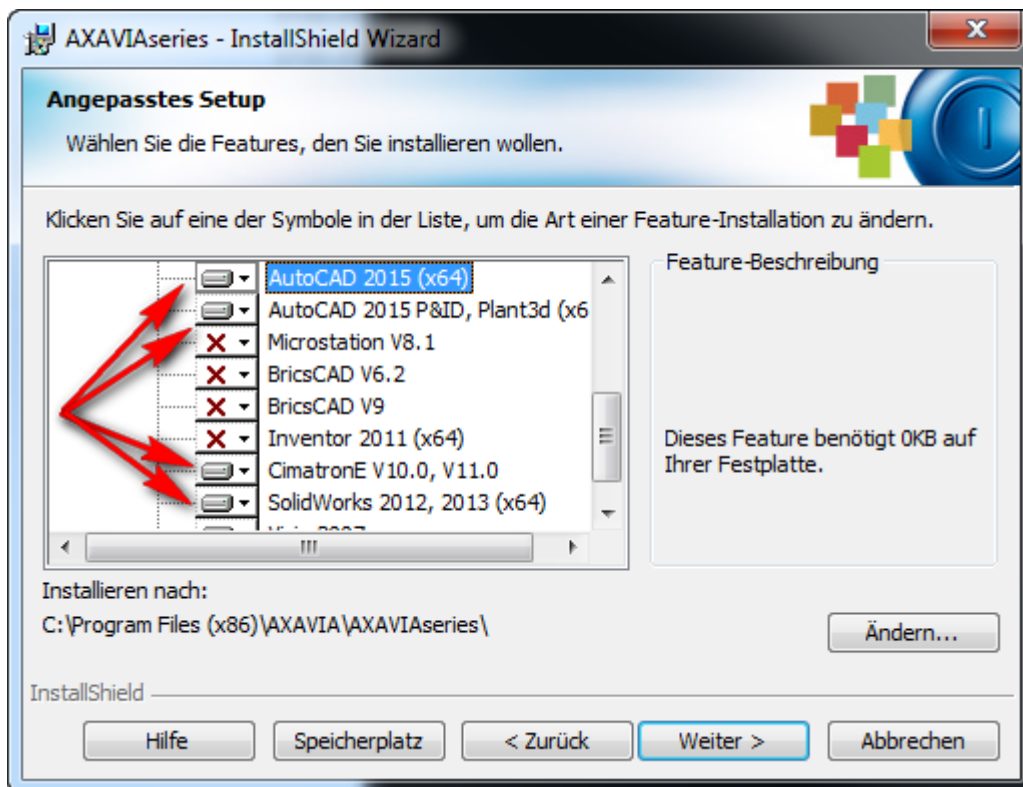
"Angepasst" auswählen -> Weiter ...



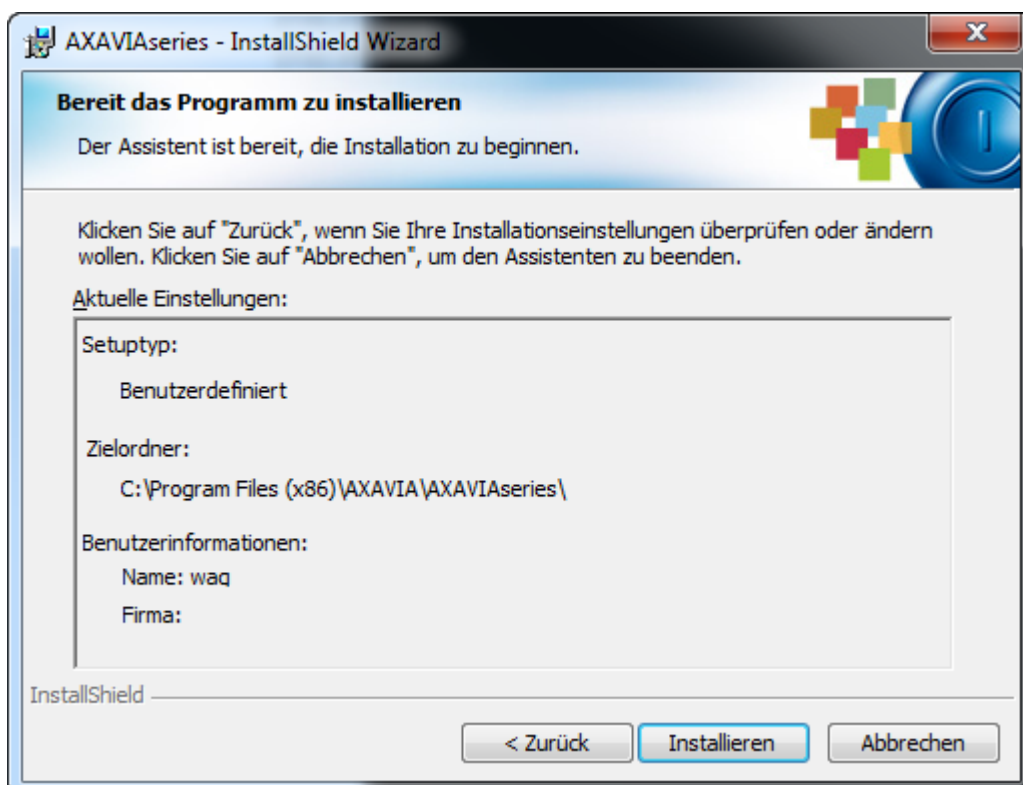
gewünschte Plugins wählen ...



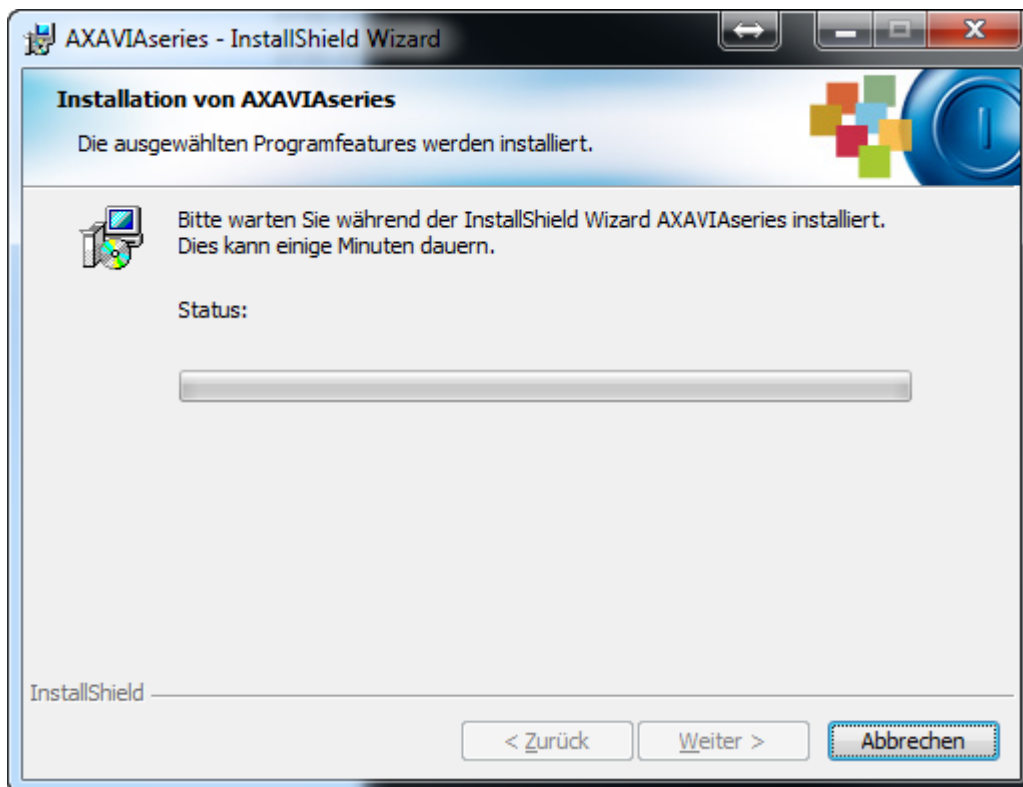
nach der Auswahl kann es z.B. so aussehen...



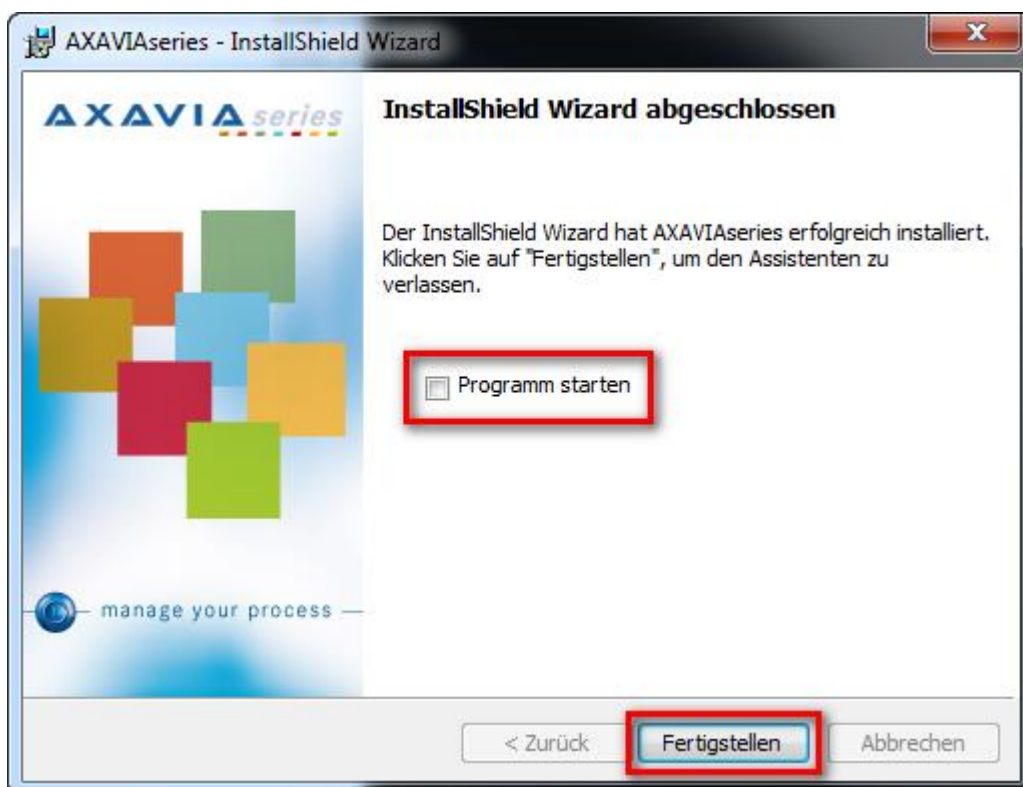
Weiter ...



Installieren ...

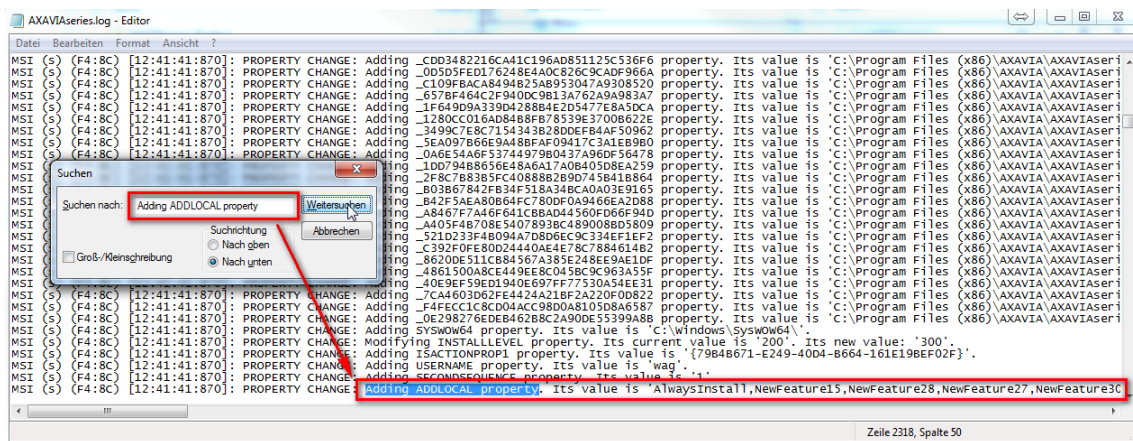


Am Ende der Installation ...



"Fertigstellen" anklicken.

LOG-Datei öffnen, Suche nach "Adding ADDLOCAL property".



Somit erhalten Sie die nötige Angabe für das Silent-Setup.

In diesem Fall würde es wie folgt aussehen:

"AlwaysInstall,NewFeature15,NewFeature28,NewFeature27,NewFeature30,NewFeature12,NewFeature2,NewFeature19"

3.8.4.4-Run the silent-installation via MSI-file

After you have copied the featurelist out of the log-file, the creation of the batch-file for silent installation can begin.

(for our example the list will be:

AlwaysInstall,NewFeature15,NewFeature28,NewFeature27,NewFeature30,NewFeature12,NewFeature2,NewFeature19)

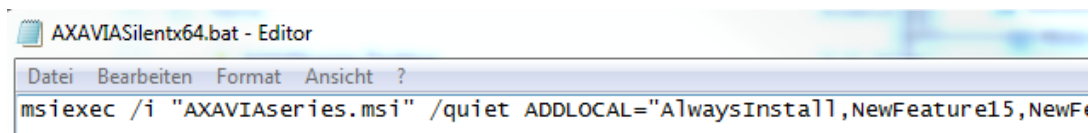
1) Create a new file "AxaviaSilentx64.bat".

2) Fill out the codelines (needs to customized to your needs):

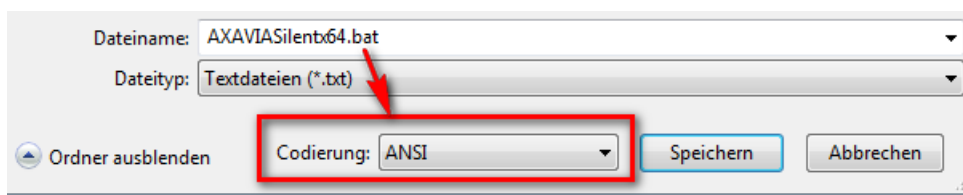
```
@ECHO off
```

```
"%SystemRoot%\system32\msiexec.exe" /i "AXAVIASeries.msi" /quiet
```

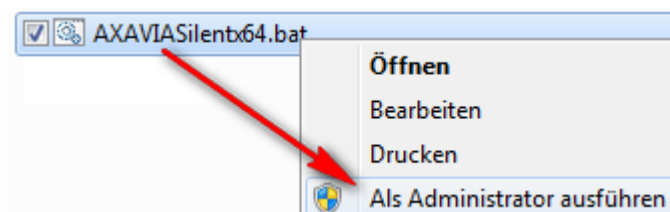
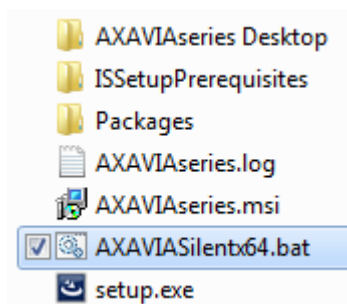
```
ADDLOCAL="AlwaysInstall,NewFeature15,NewFeature28,NewFeature27,NewFeature30,NewFeature12,NewFeature2,NewFeature19"
```



Save the file with ANSI-Codierung (IMPORTANT!).



3) Run the silent-installation with admin-permissions:



4) Check the local installation after the silent setup has finished.

3.8.4.4.1-Sample batch file for SilentSetup

Below is a sample file for "SilentSetup" with output to a LOG file. Please file and parameters ("axaviaInstallPath", "AXAVIA_ACC_PATH", ...) adapt to your needs.

Example: Batch file "**AxaviaSilentSetup.bat**"

```

echo OFF
echo Axavia is installed, please have a moment of patience
set axaviaInstallPath="MyInstallPath"AxaviaBxxxx
echo AXAVIA installation: %date% / %time% / %username% / %computername%
>>%axaviaInstallPath%.....
.....
rem custom:
setx AXAVIA_ACC_PATH "C:"Axavia"ACCs"
rem system-wide:
setx /m AXAVIA_ACC_PATH "MyPath"
rem echo %axaviaInstallPath%-AXAVIAseries.msi
"%SystemRoot%s.system32,msiexec.exe" /i "%axaviaInstallPath%"AXAVIAseries.msi" /qn
ADDLOCAL="AlwaysInstall,NewFeature15,NewFeature31,NewFeature12,NewFeature13,NewFeature22,NewFeature8,NewFeature16,NewFeature19" /L*V "%axaviaInstallPath%
setx AXAVIA_ACC_PATH "MyPath"
echo AXAVIA installation completed
rem pause

```

4-Update

Before updating the "production database" always update a current "test database" and have a look whether after updating undesirable effects occur in the "test database".

4.1-Program - Update

The „**Programm-Update**“ (Axavia also call it Release-Update) updates the software-installation of AXAVIAseries Desktop, AXAVIAseries Service und AXAVIAseries Server.

We provide a file called "setup.exe" in the sub-directory of the latest release on our ftp-server (if needed, ask for user and password)

<ftp://ftp.axavia.com/Support/Download/ReleasedVersion/>

<http://www.axavia.com/fileadmin/downloads/AXAVIAseries8.zip>

or in the directory „AXAVIAseries Desktop“ on the DVD. With this setup both "AXAVIAseries Desktop" and "AXAVIAseries Service" will be installed.

Service needs to be stoped bevore.

It is necessary to perform this update on all computers involved (all clients).

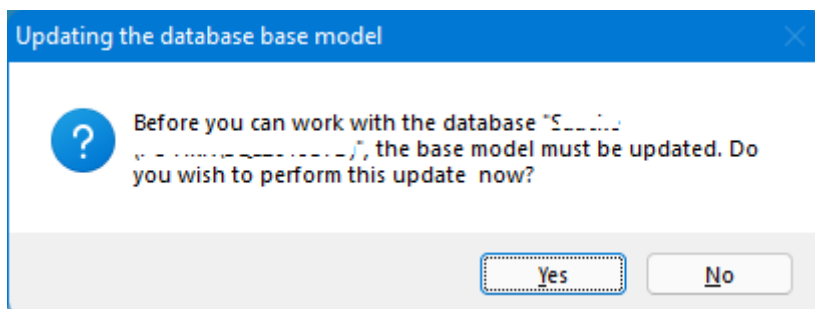
The „Programm-Update“ of "AXAVIAseries Server" is to copy the content of the subfolder "WebDir" in the directory „AXAVIAseries Server“.

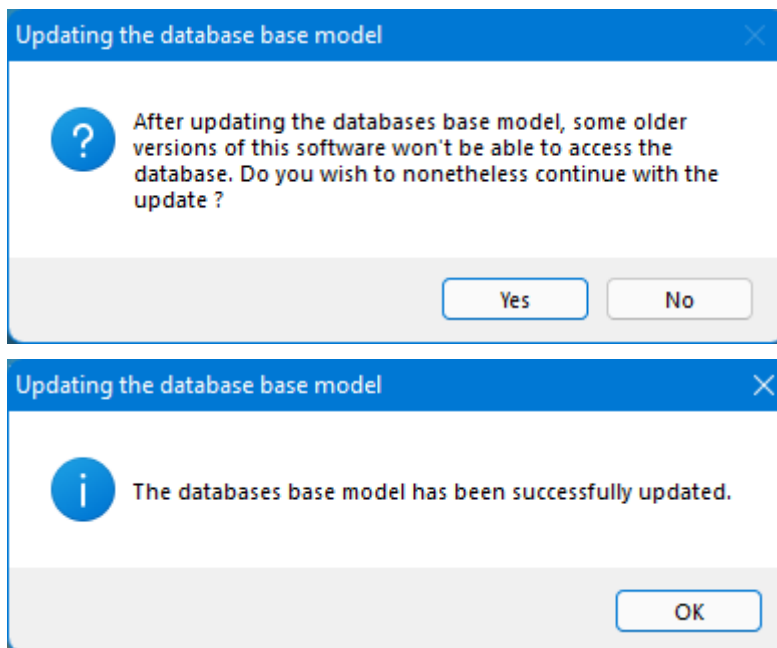
Attention: this is only needed, if we change e.g. the .NET framework version. Please backup the configuration files first, especially "web.config"!

When the setup has been started, the databasebasemodel may also need to be updated. This question about the update comes BEFORE the login dialogue!

If it is unclear to which database you are logging in, it is better to abort.

"Updating the database base model"





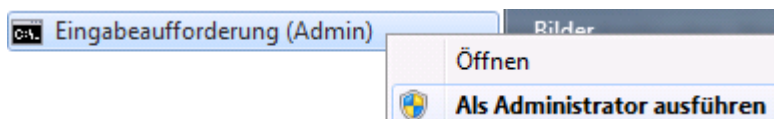
The programme update is very often followed by an automatic module update. This does not require any special action, but is carried out during the first login to the database after the setup (see module update).

4.1.1-Xcopy Deployment

To support the roll-out on many client machines, AXAVIA has made it possible to roll out manually using XCOPY deployment.

After the deployment on the clients you need to start the file "register.bat" (run as admin).

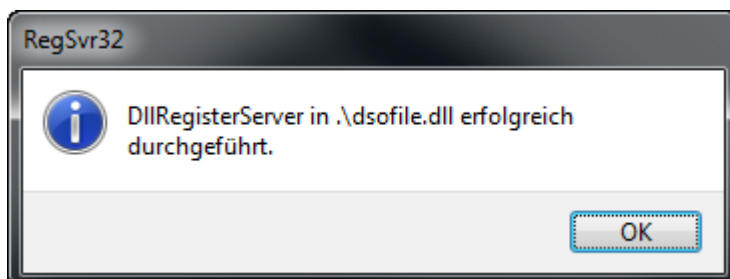
1) Start command-prompt (run as admin)

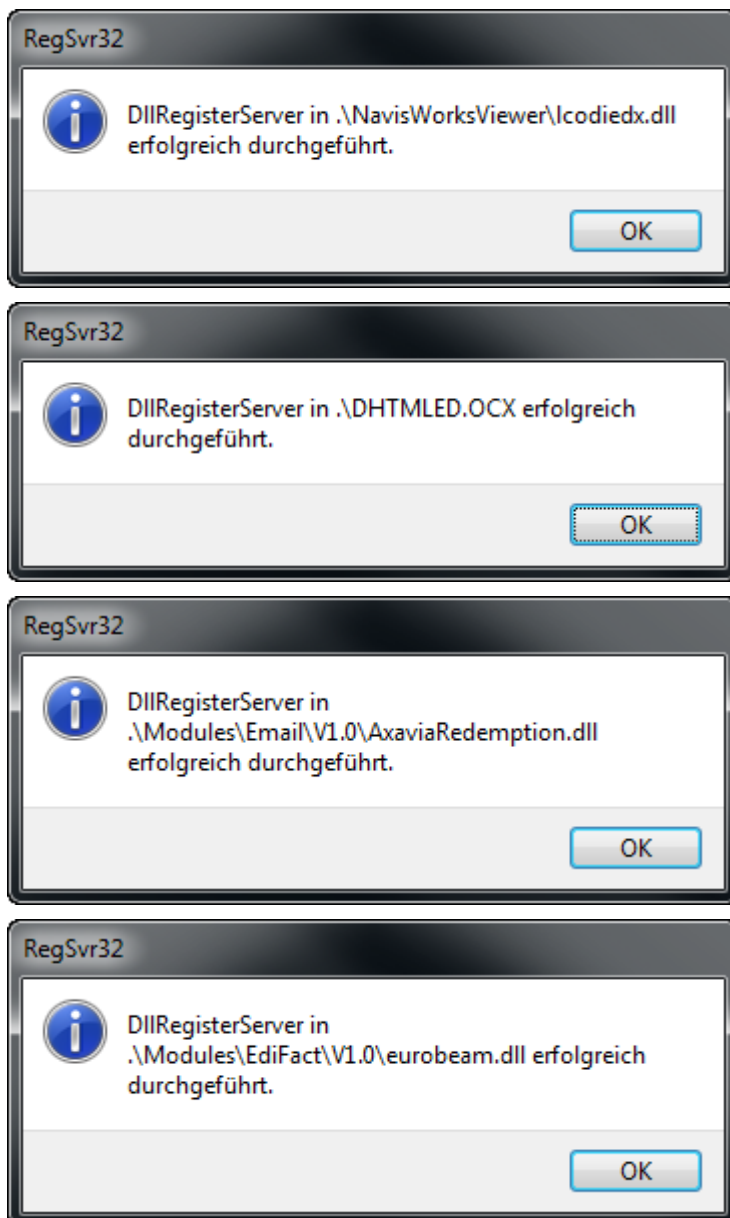


2) Change to the directory of the installed AXAVIA-software:

C:\Program Files (x86)\AXAVIA\AXAVIASeries

3) Start "Register.bat" and confirm the dialogues.





After the run it should look like this:

```
Administrator: Eingabeaufforderung (Admin)
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. Alle Rechte vorbehalten.
C:\Windows\system32>cd C:\Program Files (x86)\AXAVIA\AXAVIASeries
C:\Program Files (x86)\AXAVIA\AXAVIASeries>register.bat
C:\Program Files (x86)\AXAVIA\AXAVIASeries>rem regsvr32 RegWithInstallerContentServer.dll
C:\Program Files (x86)\AXAVIA\AXAVIASeries>regsvr32 ".\dsofile.dll"
C:\Program Files (x86)\AXAVIA\AXAVIASeries>regsvr32 ".\NavisWorksViewer\lcodiedx.dll"
C:\Program Files (x86)\AXAVIA\AXAVIASeries>regsvr32 ".\DHTMLLED.OCX"
C:\Program Files (x86)\AXAVIA\AXAVIASeries>regsvr32 ".\Modules\Email\V1.0\AxaviaRedemption.dll"
C:\Program Files (x86)\AXAVIA\AXAVIASeries>regsvr32 ".\Modules\EdiFact\V1.0\eurobeam.dll"
C:\Program Files (x86)\AXAVIA\AXAVIASeries>
```

Note: By using "setup.exe" maybe the configurationfiles „AXAVIASeriesService.config.xml“ (and so on) inside of the destination folder will be overwritten. Please backup those files before.

 **Note:** Step 3 (register.bat) is necessary at all client machines including the server (if Axavia is not installed via setup). Outdated versions of Axavia may not have access to the database again .

4.1.2-Silent Setup using .msi (alternative way to XCOPY)

To perform an unattended installation of AXAVIA without confirmations for the individual client and without registration, it requires some preparation.

An example of a practice run, see ([2.7 – Silent Setup with .msi](#)).

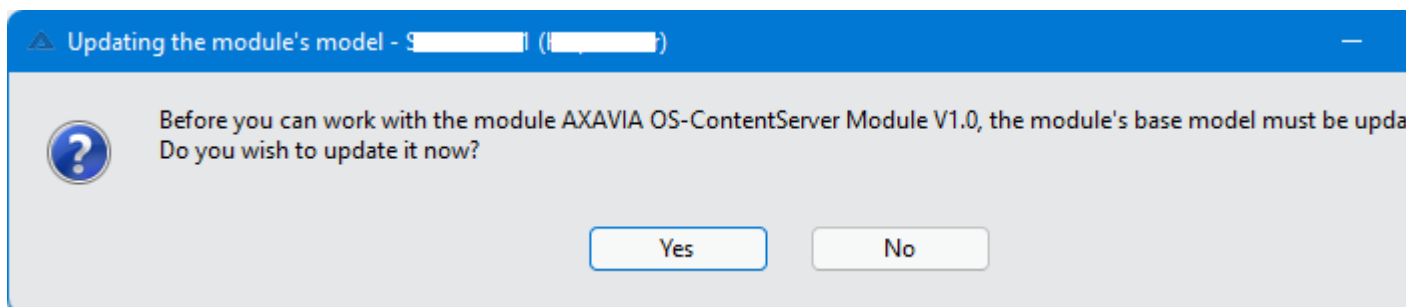
4.2-Module - Update

All those updates to the data structures in the database what is necessary for the usage of the rolled out components (during "EXE-update") are part of the module updates. This update is performed automatically when the versions of the structures used in the database do not fit to the ".dll" or ".exe"-file. If such different versions meet together, the user will be asked whether he really wants to update the modules. The module update often accesses very internal structures, it must be run with a user that has all the necessary permissions. AXAVIA recommends using the "admin" user here. This has full access independently of the other members in the database permissions.

This step must be performed during an update operation only once per database.

If such an update of the module base model is necessary, at the start of Axavia and the subsequent login to the database, you will be separately pointed out to this fact.

You will receive a message box to decide whether you want to perform this upgrade.

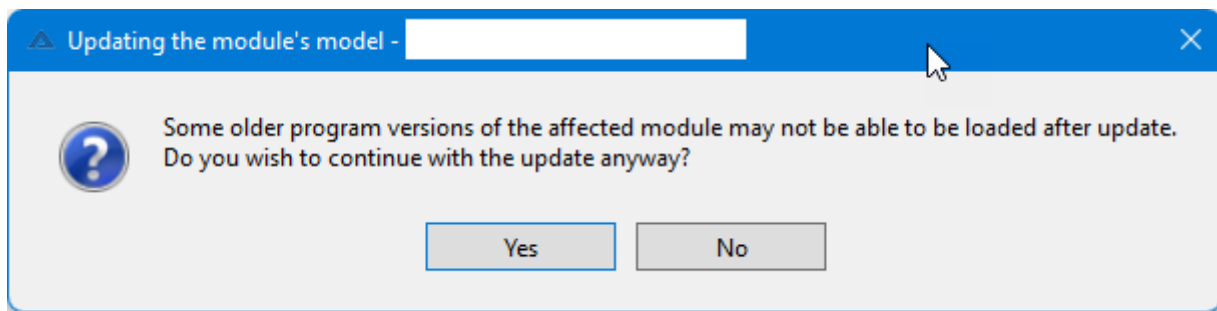


There are two types of updates:

- Urgently needed (is required for running the current version)
- Highly recommended (current version can also be started without updating)

Once the basic models have been updated, all clients must use the same version of Axavia!

Before you proceed you get a dialogue is shown to check whether the update should be proceeded or not.

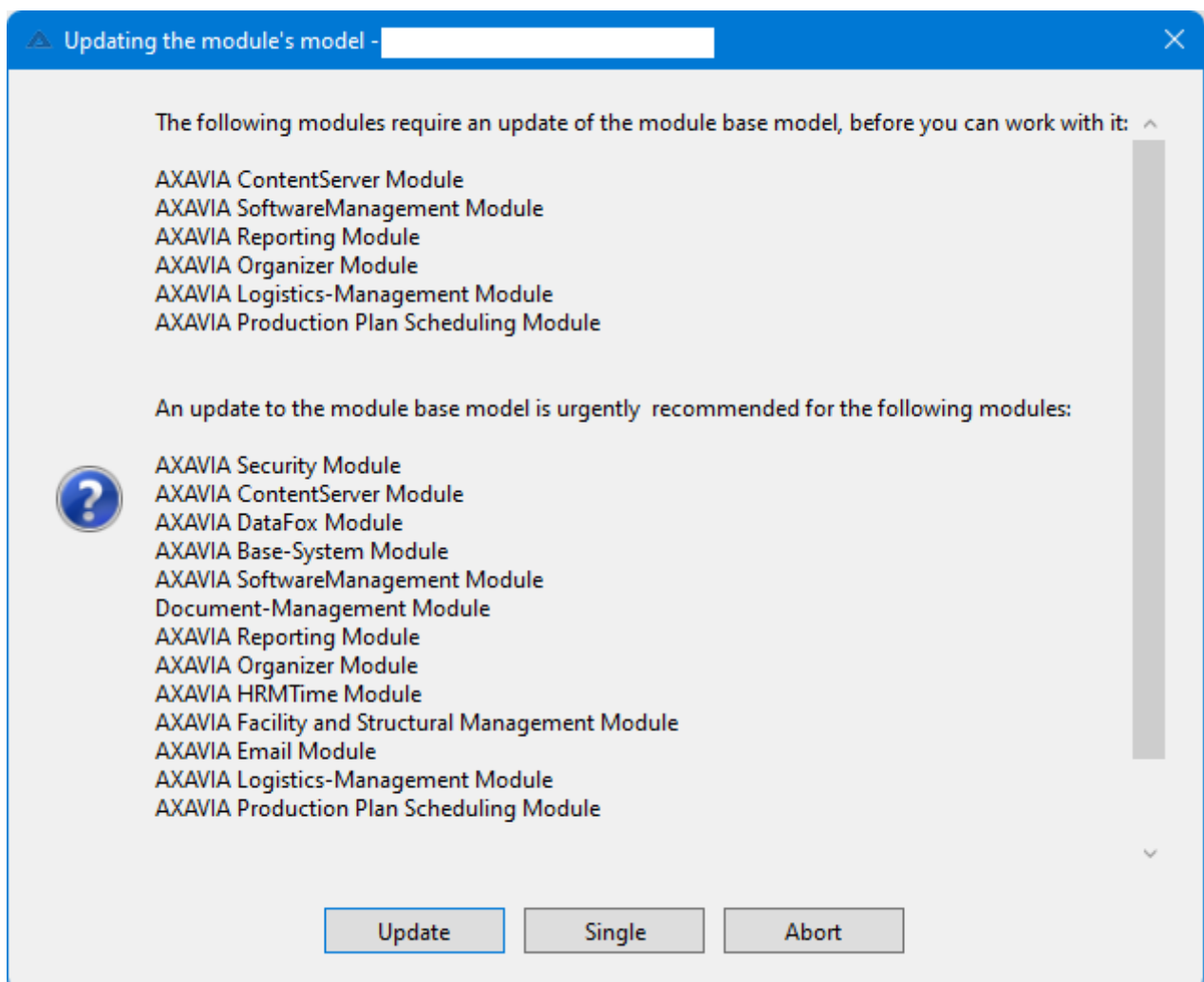


Example: urgently recommended and required update

The "urgently update", you can move on later if you do not want to update the database, because not all clients have the same, latest version in use.

The "required update", you need to do for using the new version.

With "Abort" you skip the update and still can use the latest version of your database anyway. However, you do not have the full capabilities available.



4.3-Package - update

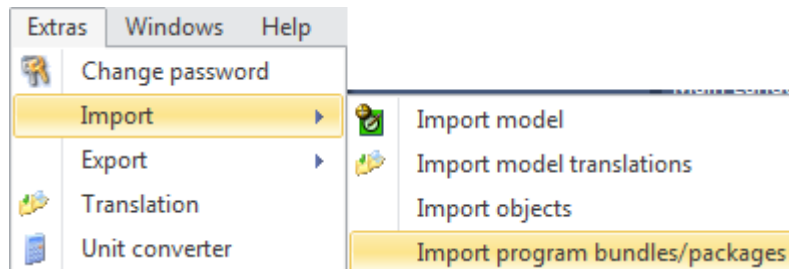
After the program update and the module update, the data structures are now ready to use the supplied version again. Over the program parts that are updated now, there must also be installed those that are only in the database.

These are:

- Datamodels
- Programdata

These are supplied by AXAVIA in the form of .PKG files. On the installation DVD, the files can be found in the directory "DVD: \AXAVIAseries\AXAVIAseries Desktop\Packages" .

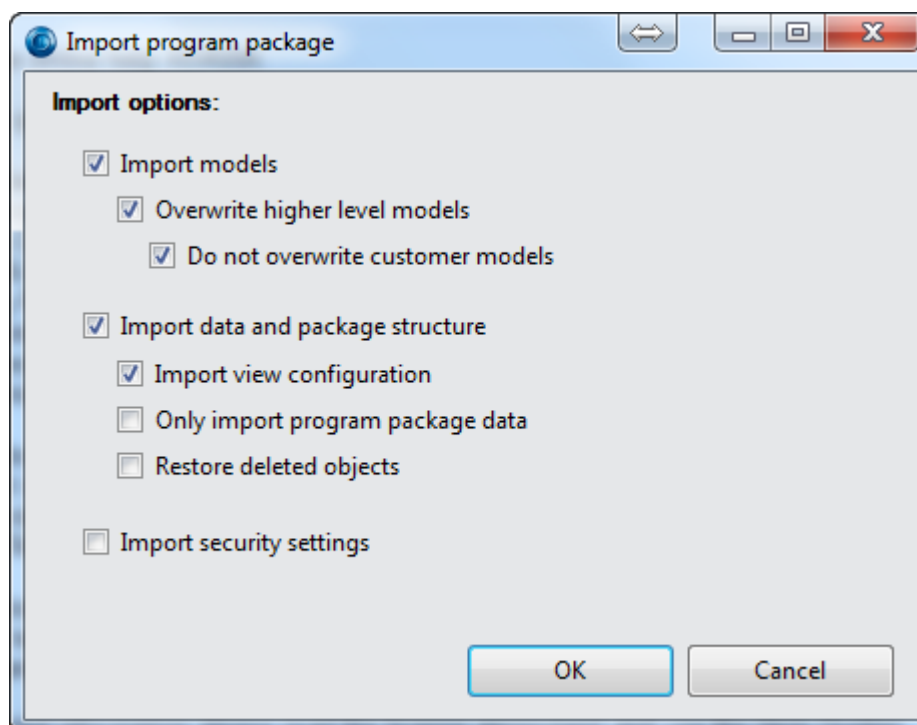
You can use "Extras -> Import -> Import program bundles/packages" for import of packages.



Note: If necessary AXAVIA supplies other ".pkg" files that are not on the standard DVD. These may include, for example, customized parts of the program.

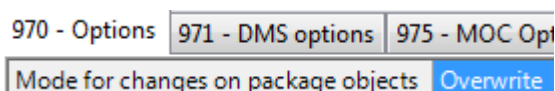
This step must be performed only once per database during the update process.

Example for import-settings for import of Axavia-packages:



IMPORTANT:

To control whether changes should be performed with the package update, please check the settings on the client.



Set the desired mode on the "root" in the tab "970-Options" at the value "Mode for changes on package objects".

4.3.1-Package update: compare to "ModelDiff" what has changed

```

C:\> ModelDiff.exe ModelDiffConfig.cfg
Connecting..
Reader connected and waiting.
Comparer connected and waiting.
Reader:0.00% Est: 0h0m0s P:0 Comparer:0 Q:0 +:0 -:0
Reader:0.00% Est: 0h0m0s P:0 Comparer:0 Q:0 +:0 -:0
Reader:0.00% Est: 0h0m0s P:0 Comparer:0 Q:0 +:0 -:0
Reader:0.00% Est: 0h0m0s P:0 Comparer:0 Q:0 +:0 -:0
Reader:0.00% Est: 0h0m0s P:0 Comparer:0 Q:0 +:0 -:0
Reader:0.00% Est: 0h0m0s P:0 Comparer:0 Q:0 +:0 -:0
Reader:0.00% Est: 0h0m0s P:0 Comparer:0 Q:0 +:0 -:0
Reader:0.00% Est: 0h0m0s P:0 Comparer:0 Q:0 +:0 -:0
Reader:0.00% Est: 0h0m0s P:0 Comparer:0 Q:0 +:0 -:0

```

As a result,

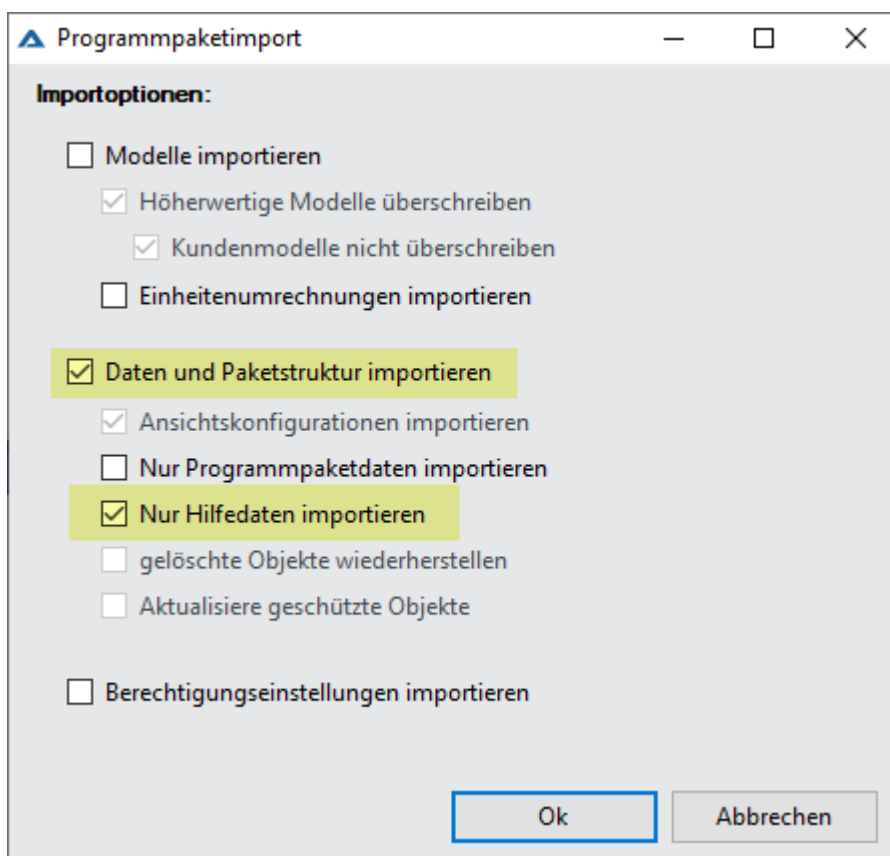
you get two files:

ModelDiffChanges.xls

ModelDiffStatistics.xls

files, you can also document the necessary solution steps. For more information, please contact your account manager.

4.3.2-



4.4-Full update: Example (update at server)

Note: It is also sensfull to install Axavia at server for testing purposes without influence of network things or anything else. You also can check the possibilty of database access vie Axavia and so on.

Important: Once the database is updated by the new release of Axavia, all outstanding client machines need to be updatet. Otherwise maybe they can no longer access the database. During update-process no instances of Axavia are allowed to run (including AxaviaSeriesService) and no user shall be connected to the database!

4.4.1-Example: Basic/module and overall update on the server

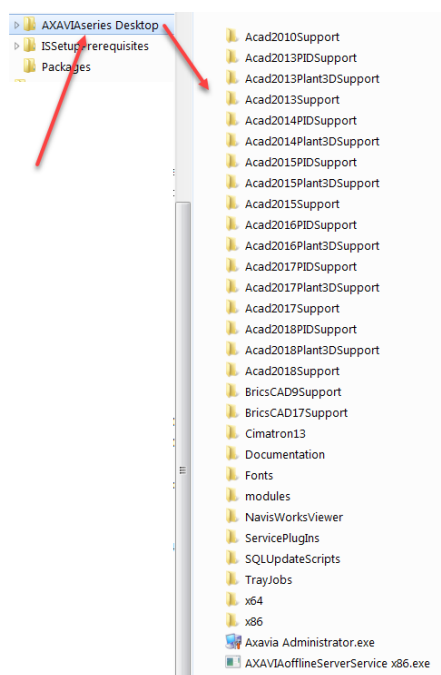
It is also useful to have an Axavia installation available on the server. This allows you to test, among other things, whether access to the database is possible, whether there are any speed problems independent of the network and much more.

: Once the database has been updated (whether by installing Axavia on the server or on a client, ALL remaining CLIENTS MUST also be updated! Otherwise, the unupdated clients may no longer be able to access the database. During the software update, no Axavia instance may run on the affected computer - the *AxaviaSeriesService* may also need to be terminated. During the update of the database, no user may be logged on to the database - also stop the *AxaviaSeriesService* again!

If you do NOT perform a package update, pleaseskip the "[Package Update](#)" item.

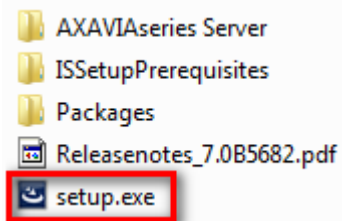
4.4.1.0-

•



4.4.1.1-Program and modul update

Execute "Setup.exe" within an administrator-account (eventually access rights at higher level are needed additionally - run as administrator).

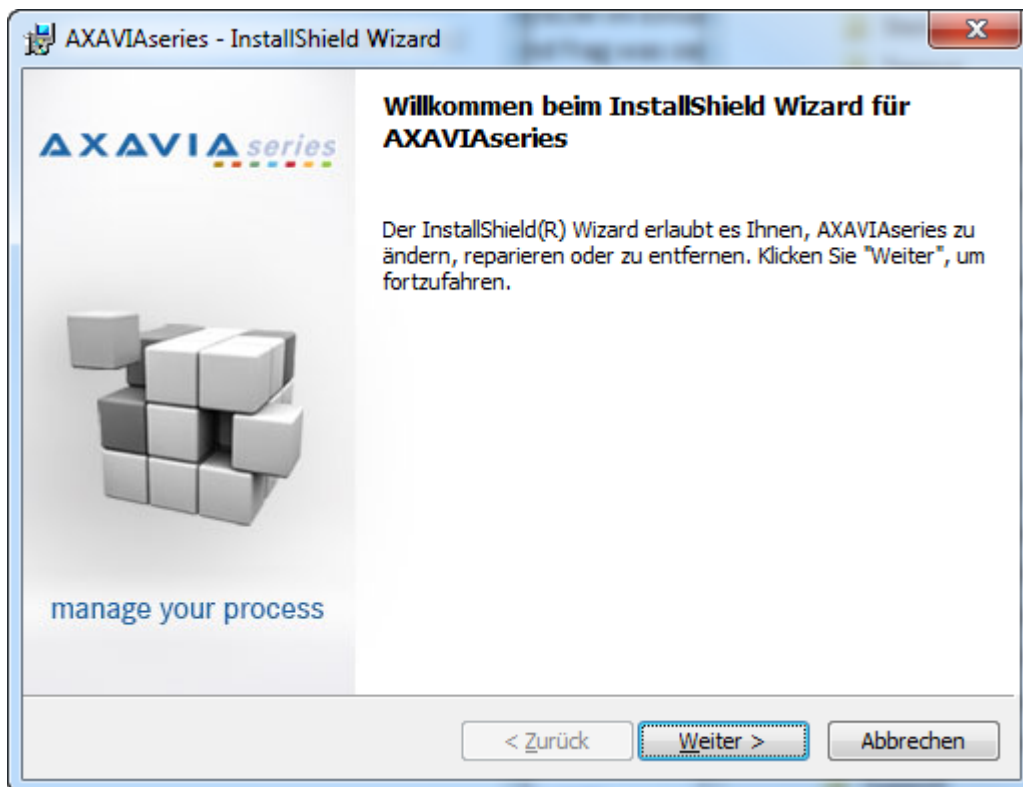


The setup guides you through the update process:

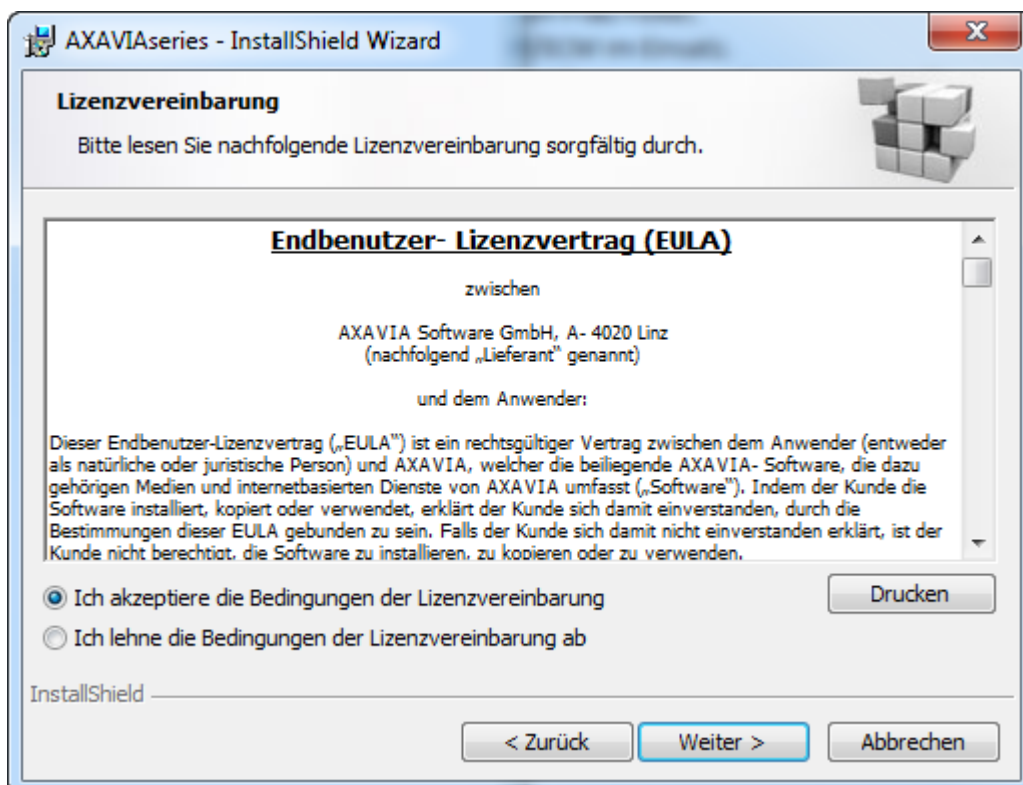
"cancel (Abbrechen)" stops the processs



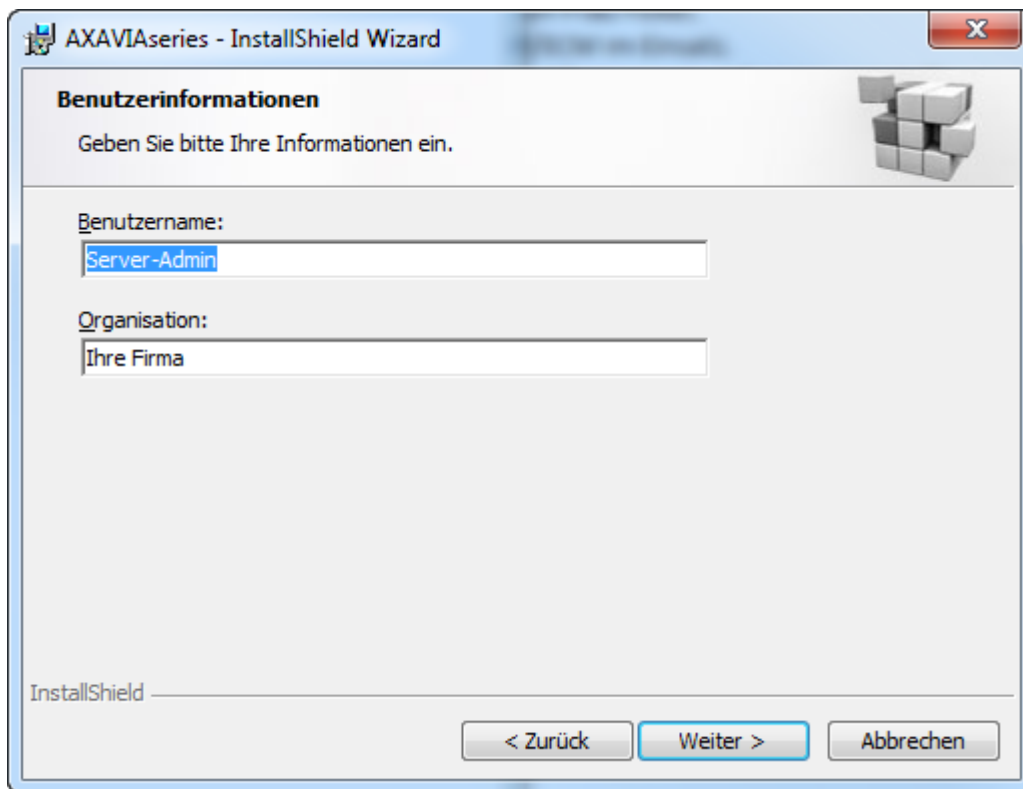
Next (Weiter)...



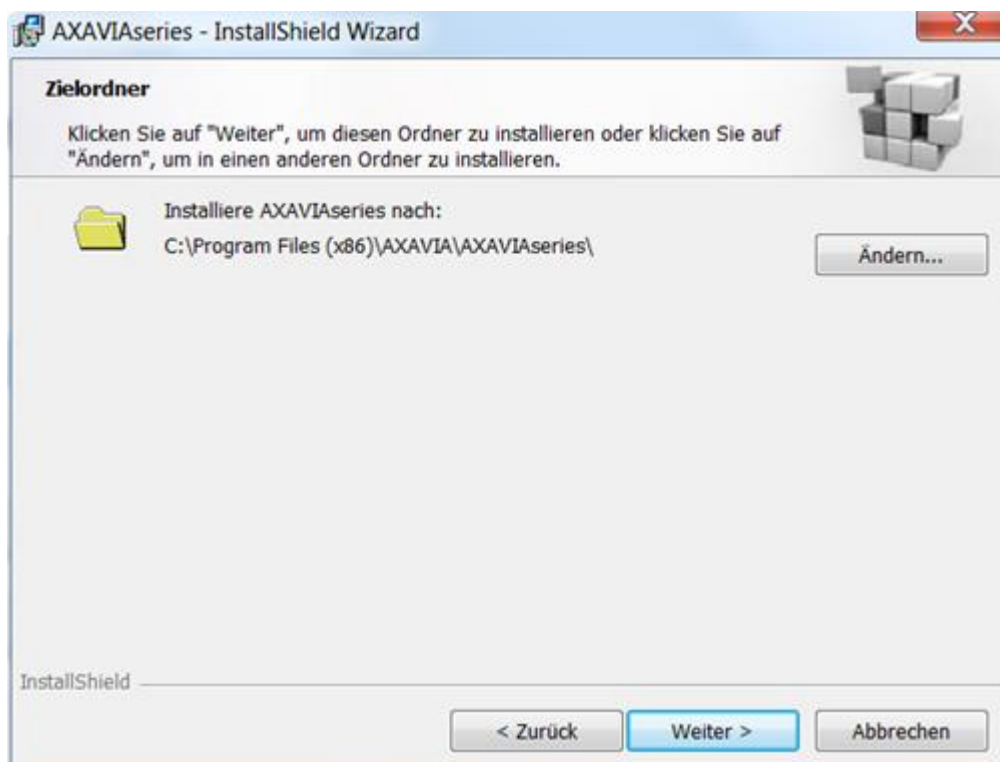
Accept licence agreement (Ich akzeptiere...) ... next (Weiter)...



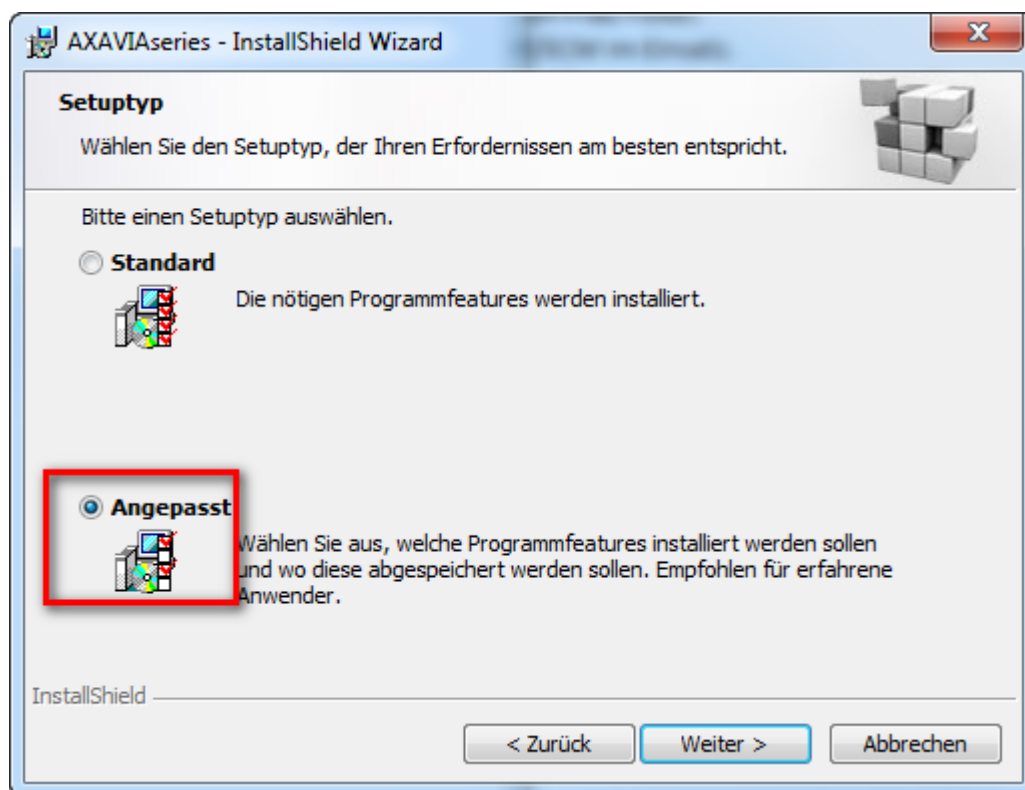
check "user (Benutzer)" and "company (Organisation)"...



Check path of installation (default is recommended)... to change it, click "edit (Ändern)"...

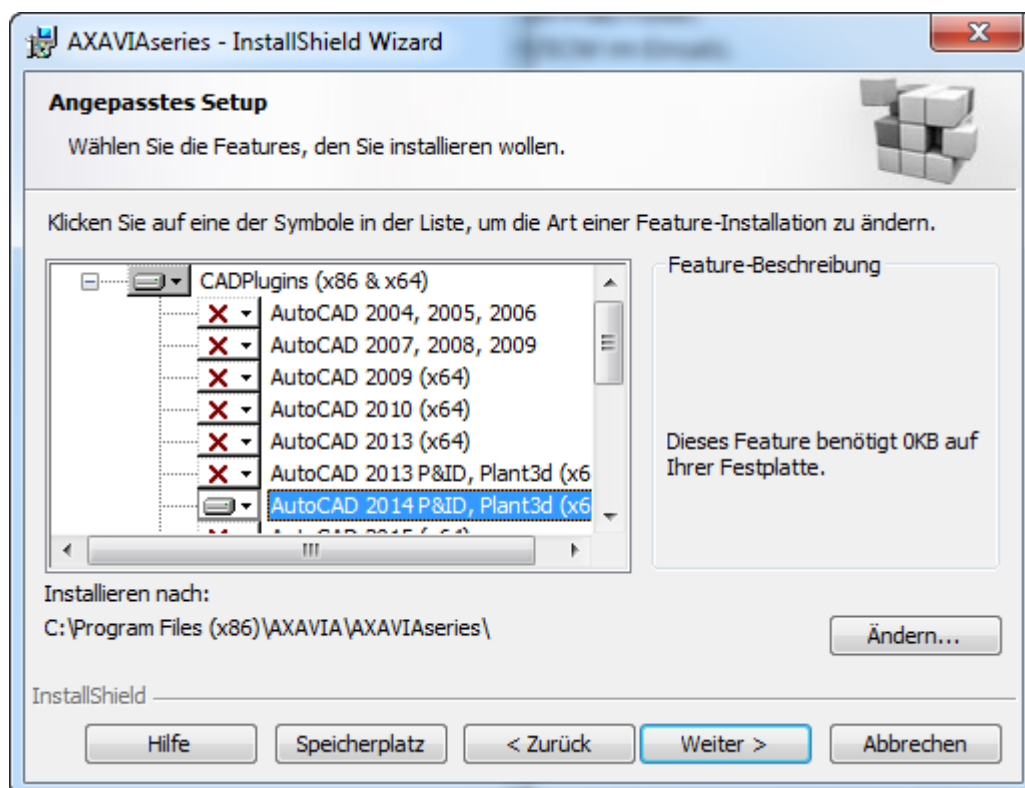


If you need to install plugins (CAD, VISIO, ...) and you got the licenses for them, please select them at "extended setup (Angepasst)", otherwise leave it at "default (Standard)" and click "next (Weiter)"...

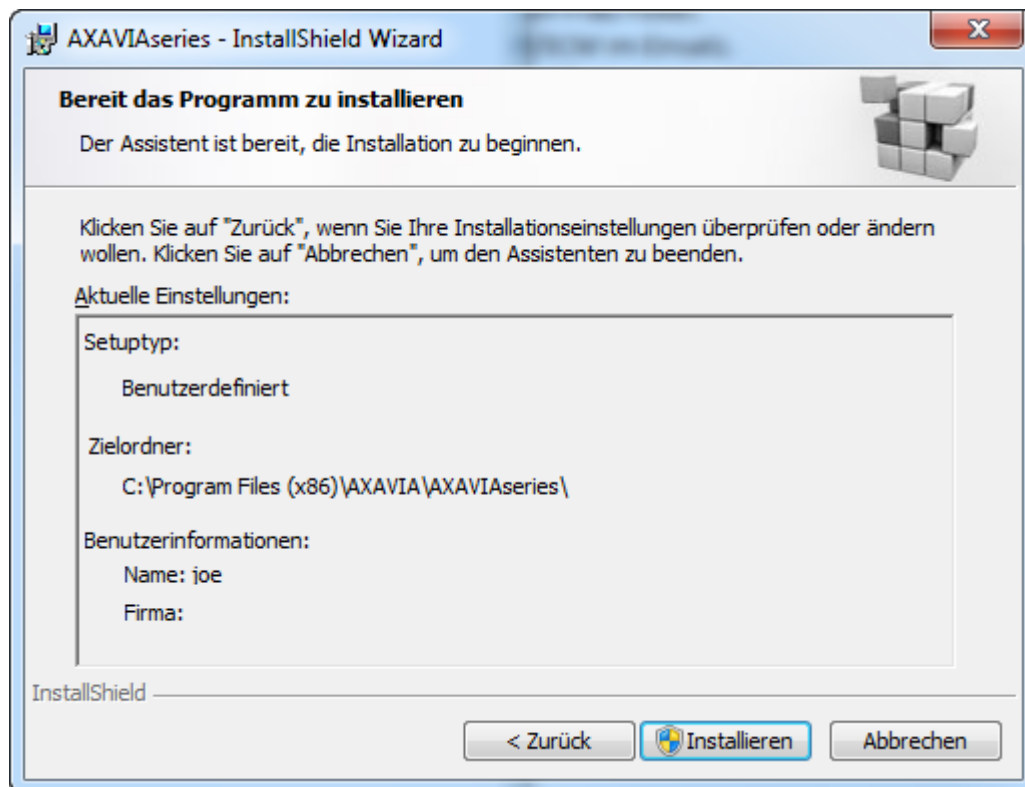


Example: extended installation, choose needed plugins...

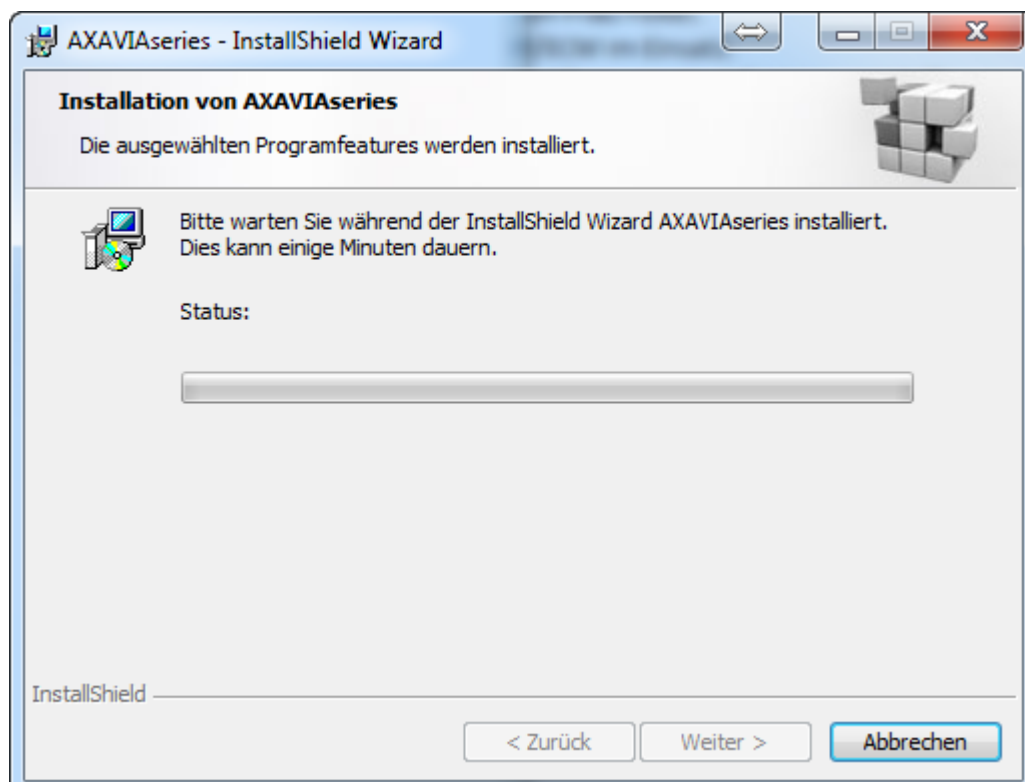
Next (Weiter)...



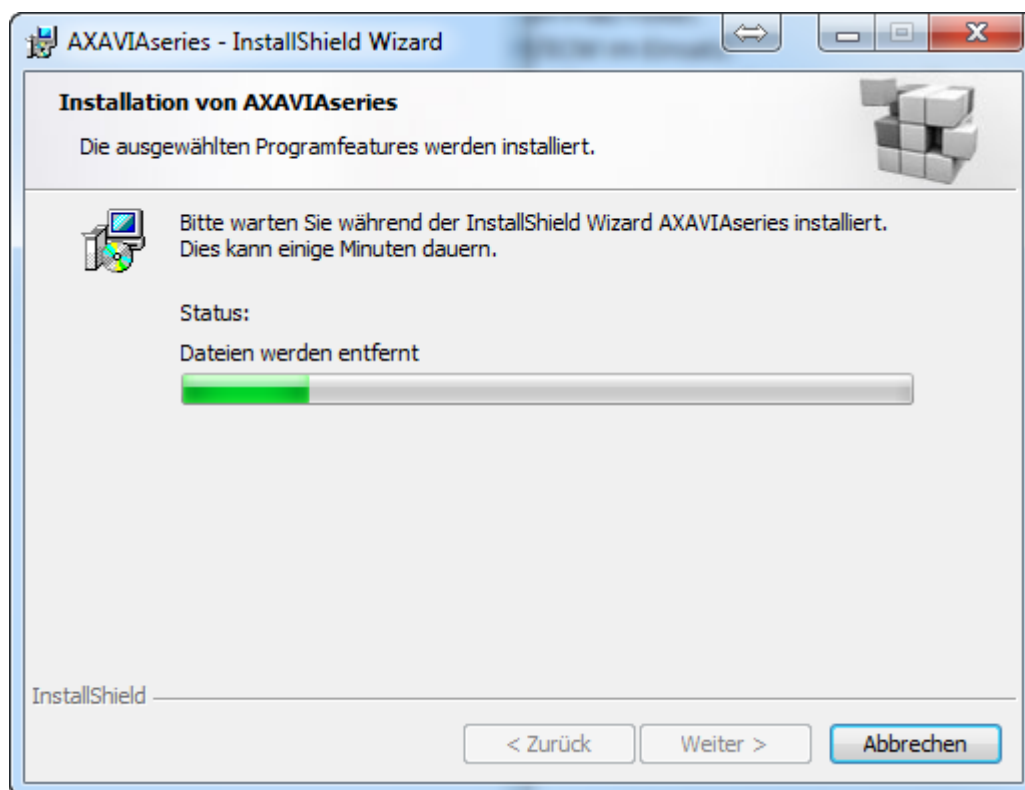
Installation starts... click "Install"...



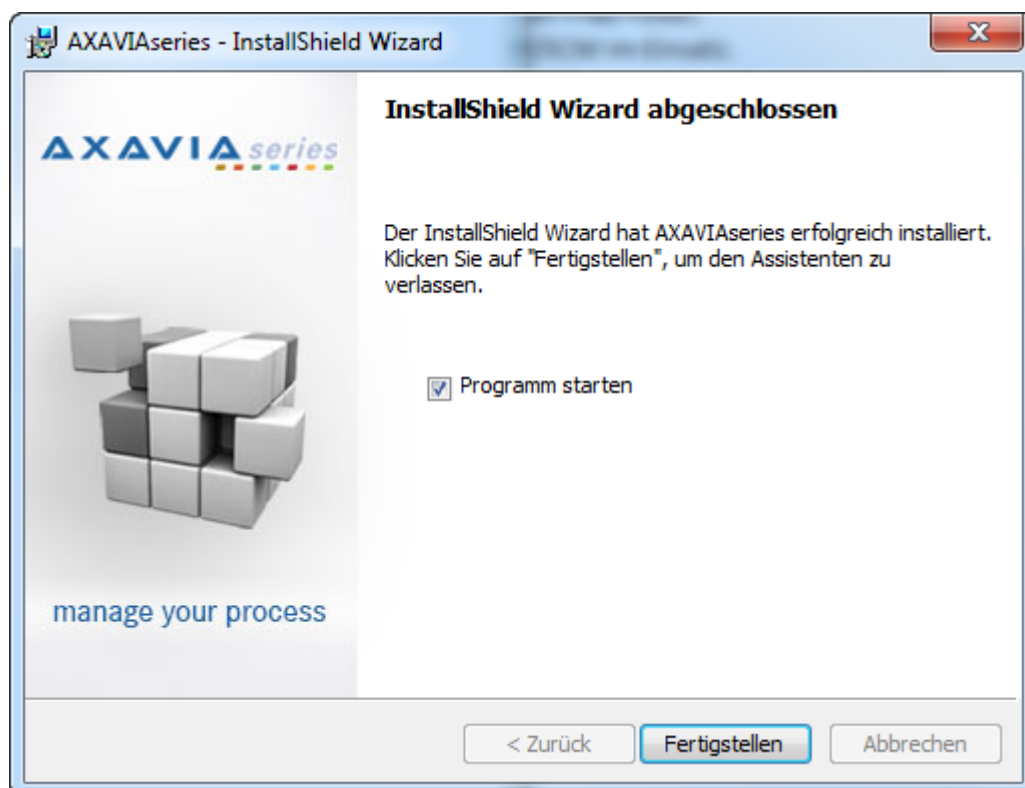
Waiting for progress (Status)... in background useraccount-notification can be active - have an eye on it!



progress is shown...

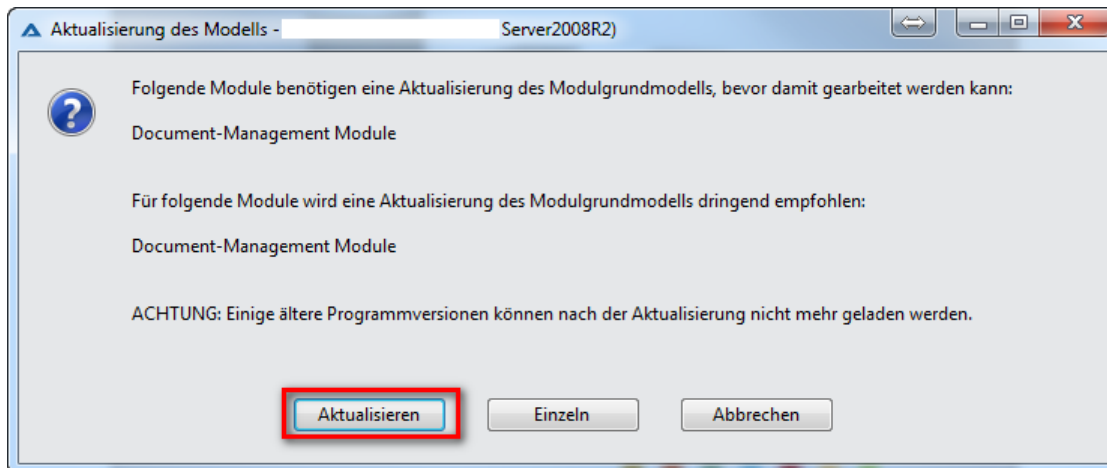


After setup has finished you get a positive note (InstallShield Wizard abgeschlossen)...
Start program is activated, if you want to run it now, just click "finish (Fertigstellen)"...



After program starts, maybe it needs to update some of the modul base models.
(Therefore the connected Axavia-user must have the necessary permissions).

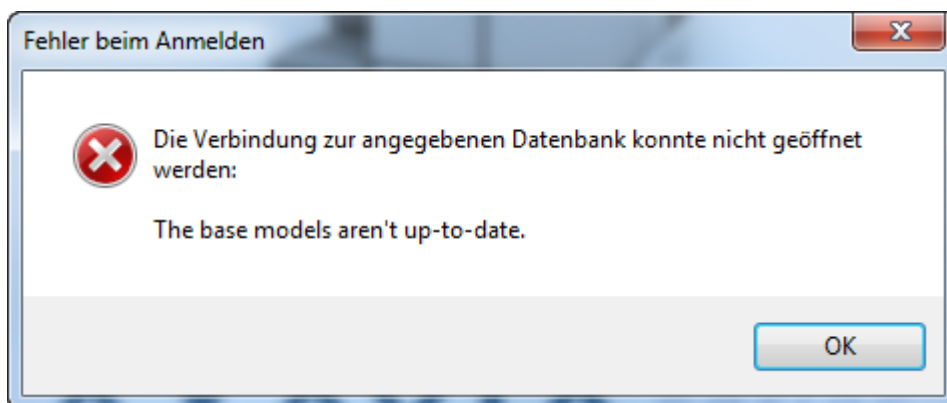
Example: update some modul base models is needed



Default is "update (Aktualisieren)".

If you choose "cancel (Abbrechen)" anklicken, können Sie sich nicht auf die Datenbank anmelden, wenn eine Aktualisierung benötigt wird.

Example for cancel: Connection to database is refused.



Therefore you need to update the modul base models...

After this Axavia starts with the known view.

4.4.1.2-Package update

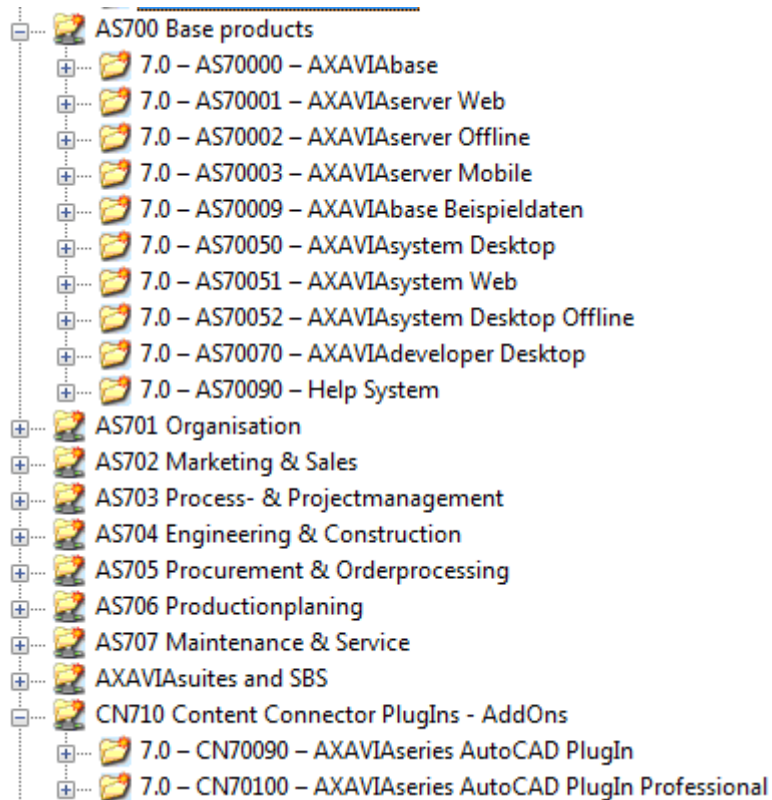
Once the program itself is updated, we also recommend to update the included packages.

Important: Always update packages in a TEST-DATABASE first to find out possible problems with your existing customizations! After intense positive tests you can update productive database.

To update the existing packages please import the packages you have licensed.

To find out, which packages you need to select, please have a look inside of Axavia or at you order confirmation.

Example:

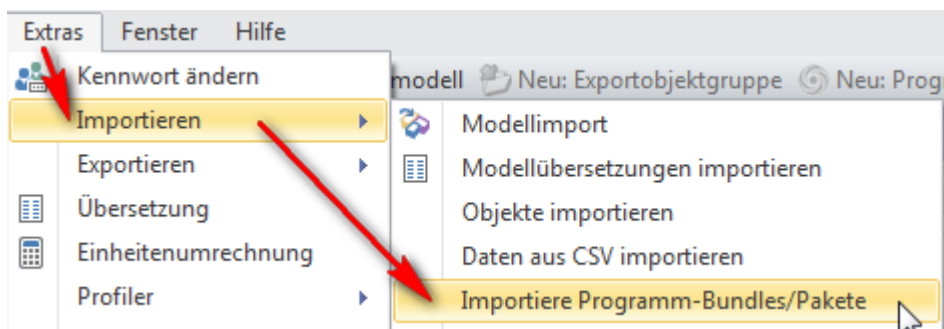


With the information of package-number and label you can select the packages within the setup-folder.

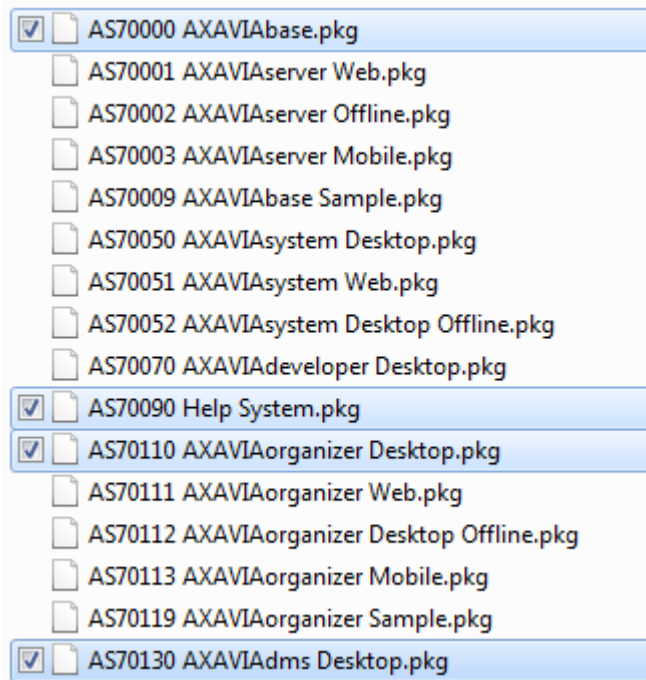
If you bought complete suites (since version 7), you only need to select the packages named like the name of the suite.

E.g.: AS79010 AXAVIASuite CRM Desktop Budlepackage.pkg (the 'n' is missing in the naming, sorry)

Otherwise select the single packages (you can select all you need at once).



Example of choice:



Explanation to the packages:

AXAVIAbase you always need, except you bought SBS-Version or a complete Suite (since version 7).

The **Desktop-packages** are the default-packages. Please select it (except SBS-Version).

Example:

AS70110 AXAVIAorganizer Desktop.pkg

AS70130 AXAVIAdms Desktop.pkg

...

The **Help-package** please always import to get the latest informations about Axavia inside your programm (except SBS-Version).

AS70090 Help System.pkg

The **Web-package** please select, if you licensed the thin-client usage.

Example:

AS70110 AXAVIAorganizer Web.pkg

AS70130 AXAVIAdms Web.pkg

...

The **Offline-package** please select, if you licensed the Axavia-Offline-usage (Offline Server, Offline Datenbank).

Example:

AS70110 AXAVIAorganizer Desktop Offline.pkg

AS70130 AXAVIAdms Desktop Offline.pkg

...

The **Mobile-package** please select, if you licensed the Axavia-Mobile-usage (Mobile Server).

Example:

AS70110 AXAVIAorganizer Desktop Offline.pkg

AS70130 AXAVIAdms Desktop Offline.pkg

...

The **Sample-packages** please **DO NOT** select

These are sample-files you only should use it in test-databases or for teaching purposes.

Example:

AS70009 AXAVIAbase Sample.pkg

...

The **ContentConnectorPlugin-packages** please select, if you licensed those plugins.

Example:

CN70090 AXAVIAseries AutoCAD PlugIn.pkg

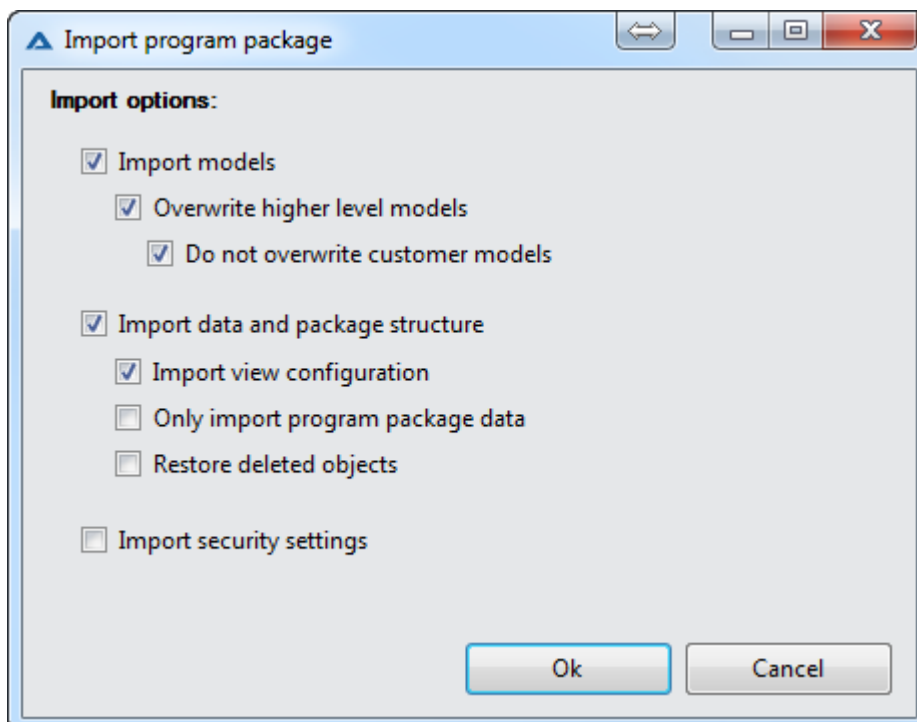
CN70100 AXAVIAseries AutoCAD PlugIn Professional.pkg

...

4.4.1.2.1-Import settings

If you want to get ALL modifications of default packages choose the following settings:

(default settings)



With those settings you get everything imported (e.g. reports, templates, views, and so on)!

Whenever you have modified objects created by Axavia, be sure you have protected them (either by custom models or by activated option "No change on object update" at the objects!

Otherwise your changes will be overwritten.

Example:

No change on object update ☒

If you will go for sure not overwriting existing views or not importing new views deactivate "Import view configuration".

Note: You will NOT get the new views build since version 7, if you are updating from version 6 to 7 the first time.

Meaning of the options:

Label	Description
Import models	If the data models in this package are imported with?
Overwrite higher level models	Should models be overwritten by alphabetical lower? Age access for the protection of customer models.
Do not overwrite customer models	Model elements that are located in the customer model is not overwritten.
Import data and package structure	Imports data are included in the bundles / packages (reports, queries, etc.)
Import view configuration	Imported views incl. All settings (field selections, structural surveys, etc.)
Only import program package data	With this option, only objects of the program package structure to be imported. If no data is to be imported this option still be activated so that the model elements are created. Otherwise, the system would treat new models as customer model.
Restore deleted objects	Already Recovers deleted "Standard Objects" again if the Recycle Bin has been emptied in the meantime not
Import security settings	Imports in the standard set permissions

4.5-Thin Client Update

If the thin client is also in use, the thin client must also be updated with every Axavia update! The steps to be followed are given below.

4.5.1-Aktualisierung / Update

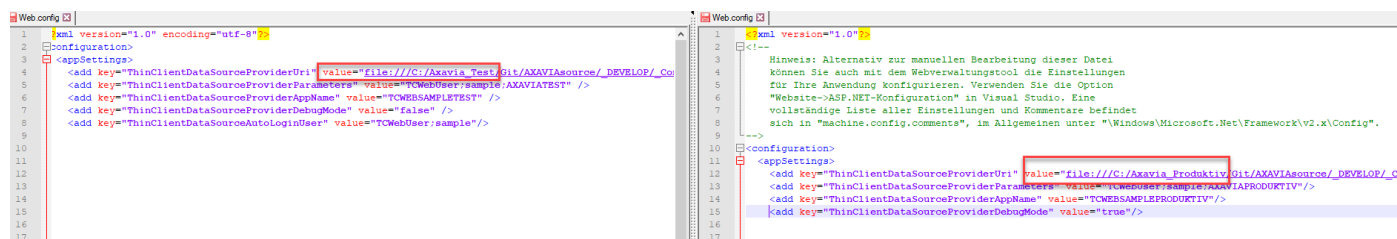
Updating Web

There are several things to keep in mind when updating and installing the Web. These points are explained in this white paper.

Basically, the following applies:

- There must be at least one productive and test system. Optimal would be Productive, Test and Develop System.
- Test System is **independent** of the production system! This means:

which is specified in the Web.config of the test system a different directory to Axavia than in the Web.config of the production system (see picture). There must be an Axavia desktop for the test system and one for the productive system so **two!** (The reason for this is that the dlls on the web work with the dlls in the desktop!)



- that there are different app pools for Test System and Productive System!
 - that these test and productive pages/app pools/directories are named accordingly! Eg. Axavia_Web_Produktiv or Umfrage_Test, etc.
- that there is a test page for each productive page/application!
- Any type of customization within the web directory (e.g. CSS, Javascript or Page Adjustments) must be **carefully** documented and deposited within Axavia!

E.g.: 2020-02-21 (Application name of WebPage): mbi: Javascript(filename.js): Monthly overview
Table: Automatically mark all minus times in red

- Exceptions to these regulations must also be documented. 2020-02-21: CTH to MBI: Customer XY: Customizations in files are not documented or are not documented as they still use v1.

How to update (general)

1. Before the productive system is updated, the test system **must** be updated, tested by the customer and released!
2. Exit the app pool of the application you want to update.
3. Axavia Desktop.
4. Read the documentation of the adjustments and take into account the things mentioned there as needed.
5. The Web directory (taking into account the documented customizations) replaces except for the Web.config.
6. The extensions from the Web.config from the release should also be taken into account. This means that the Web.config of the release is to check for new features and insert them.
7. Start the app pool that you finished earlier.
8. Test.

Finished.

4.6-MobileServer / MobileApp Update (TODO)

An Axavia update may also need to update the MobileServer and The MobileApp. The steps to be followed are given below.

4.7-CAD-Plugins (TODO)

An Axavia update may also need to update the plugins. The steps to be followed are given below.

4.8-FAQ

The following may be interesting questions.

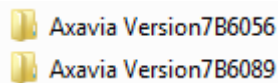
4.8.1-Testing Axavia without setup? / Multiple Axavia versions possible on one client?

Yes, it is possible. Please note that versions that are different from the installed version must NOT be installed via setup.

In principle, it is sufficient to copy the extracted Axavia folder locally to any directory and start the "AXAVIAseries Desktop.exe" contained in it.

Example:

C:\



via, the most recently used database is still set. An immediate attempt would be made to update the most recently used database. This **MUST** be **BROKEN!**

Therefore, it is recommended that the links of the various versions ALWAYS include the desired test database.

4.99-Error

Below are possible errors.

4.99.1-

5-Database Management

5.1-Production and test system

Usually more than one database is installed in the company.

This results in a two- or three-tier structure of databases:

- **Production-Database**: employees are working with this database
- **Test-Database**: New versions will be installed here. Tests run there, whether all adjustments still work..
- **Developer-Database**: If AXAVIAdeveloper is installed, it may be useful to conduct a Developer database. Here adjustments can be made.

New features will be developed in the Developer-Database. Then, the migration to the Test-Database follows and the functionality itself is tested there. If everything is correct, the solution is migrated to the Production-Database

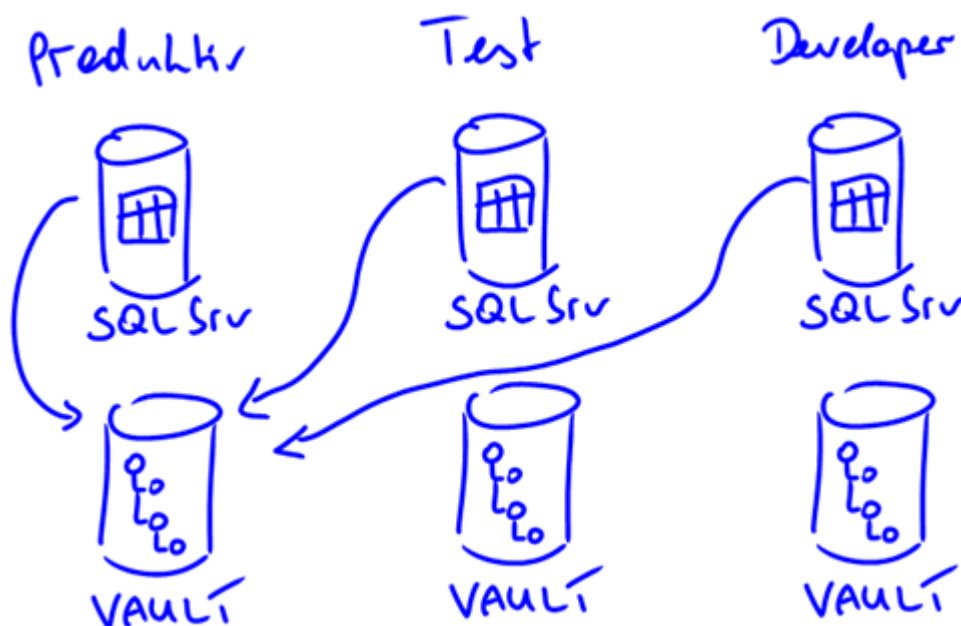
Under certain circumstances, employees need access to the test database to try operations and procedures.

At regular intervals, the Production-Database is copied over the Test- and the Developer-Database and of course the entire productive Vault (or parts of it).

The following steps must be followed:

- Backup of Production-Database
- Restore over the Test-Database
- Restore over the Developer-Database
- Copy the produktiv-vaults into the Test-vault and Developer-vault.

Now the following structure is created:



Hier sind die Referenzen aus den Test- und Developer-Datenbank auf den Produkt-Vault gerichtet.

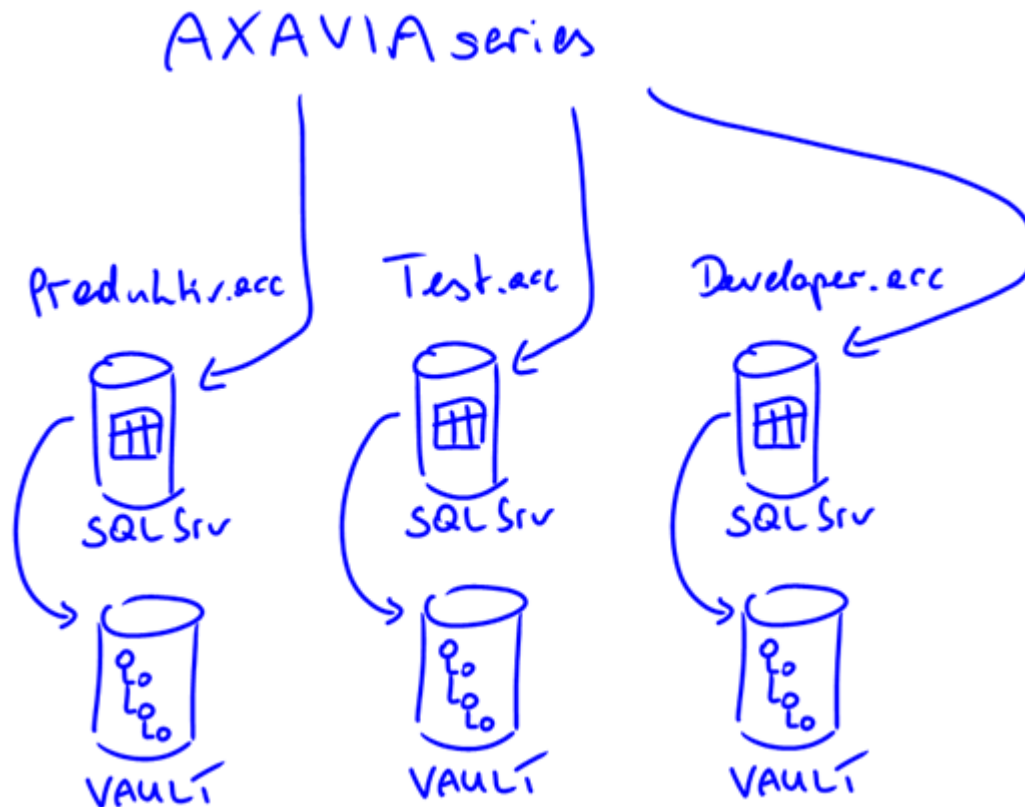
Als erstes muss also die Vault-Referenz „verbogen“ werden.

Dann ergibt sich folgende Struktur:

Here, the references from the Test- and Developer-Database are directed to the productive-vault!!

The first thing to do, is to change the vault references.

Then, the following (correct) structure is created::



Ggf. werden nicht alle ACC-Dateien auf die Client-Maschinen ausgerollt. Die ACC-Datei für die Developer-Datenbank soll nur für die Entwickler zur Verfügung gestellt werden.

Die ACC-Datei für die Test-Datenbank nur für einen kleineren Kreis der Benutzer.

Usually it is not necessary to roll out all ACC-files on the client machines. The ACC-file for the Developer-Database should be provided only for the developers.

The ACC-file for the test database only for a smaller group of users.

5.2-ACC files

The ACC-files contain the database connection information:

- Server name (and optionally the name of named SQL Server instances)
- Database name
- SQL-Server username
- SQL-Server Password

After installation the ACC-files are in principle in the directory "ACCs" in the installation-directory (e.g. C:\Programme\AXAVIA\AXAVIAseries\ACCs))

If the files are stored in other directories, this location can be set by using the environment variable "AXAVIA_ACC_PATH".

This can be stored for all users on a system environment variable or a user (related) environment variable.

Setting the user-specific environment variable does not require higher privileges. Thus, even temporarily, for example, for training purposes, the ACC-path can be changed. After removing these user-specific environment variable, the system environment variable affects again.

At Windows -> Start -> "search programs/files" search for "environment variable" and select "edit environment variables for this account".



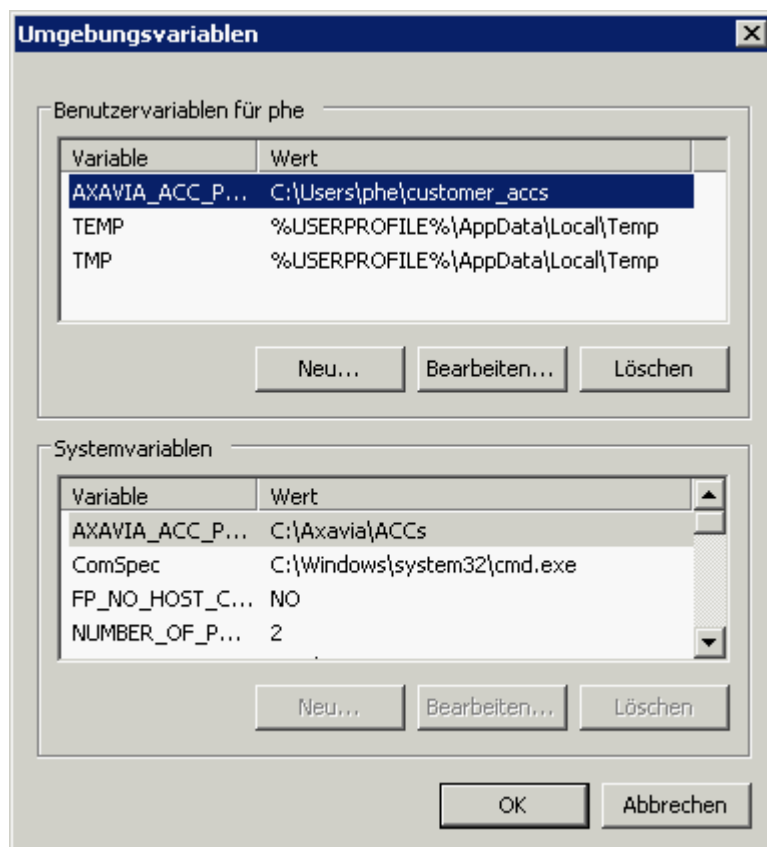
In the opened windows you can set the user-specific or system-wide valid variable (admin rights needed).

You also can do it via command-prompt:

user-specific: `setx AXAVIA_ACC_PATH "C:\Temp"`

system-wide: `setx /m AXAVIA_ACC_PATH "\\IP-Address or Networkshare\ACC-folder"`

For example:



5.3-

5.3.1-Move AXAVIA home directory to other servers

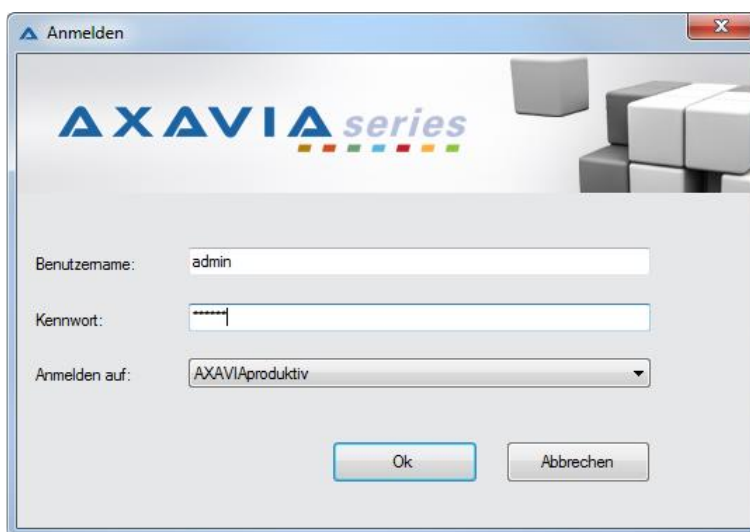
Goal:

The current data, which AXAVIA serves as a so-called work or base directory, is to be transferred to another server or data carrier.

Solution:

- Create a share for the new target directory and make this share accessible through the firewall. All original permissions on the WORK record must be returned!
- Stop working with the AXAVIA database (also stop services).
- Copy the home directory to the destination directory.
- Sign up to AXAVIA.
- In the configuration view, enter the new share for the moved home directory.
- If necessary, also customize the configuration file of the AXAVIAseriesService if affected paths are also accessed there.

5.3.2-



6-Backup

Important: There should be no backup software or an Exchange server installed on the database server. Both use the disk very much, so it has a very negative effect on database performance.

6.1-Database backup

This document describes a full backup of a database AXAVIAseries in use of Microsoft SQL Server of 2008 (the steps are very similar at newer versions).

Start on the server where the database is running the "SQL Server Management Studio".

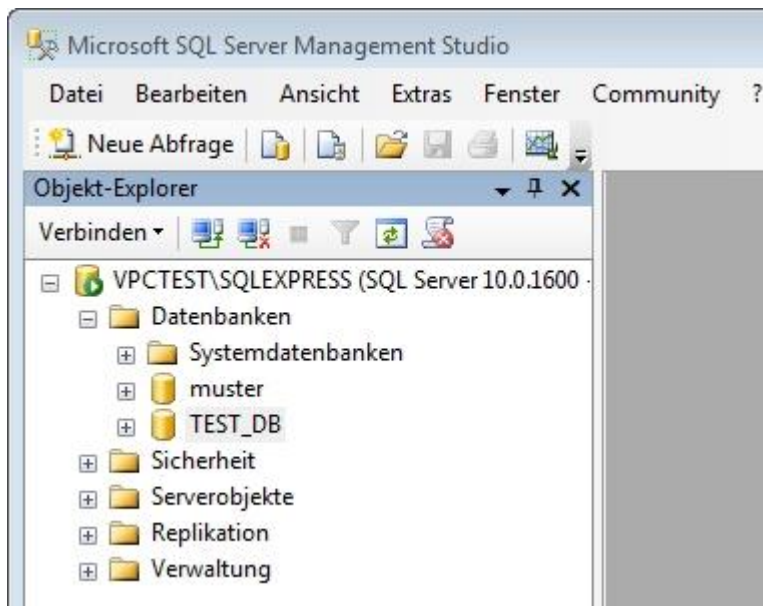
If the "SQL Server Management Studio" does not exist, so this can be downloaded here:

[Microsoft® SQL Server® 2008 Management Studio Express](#)

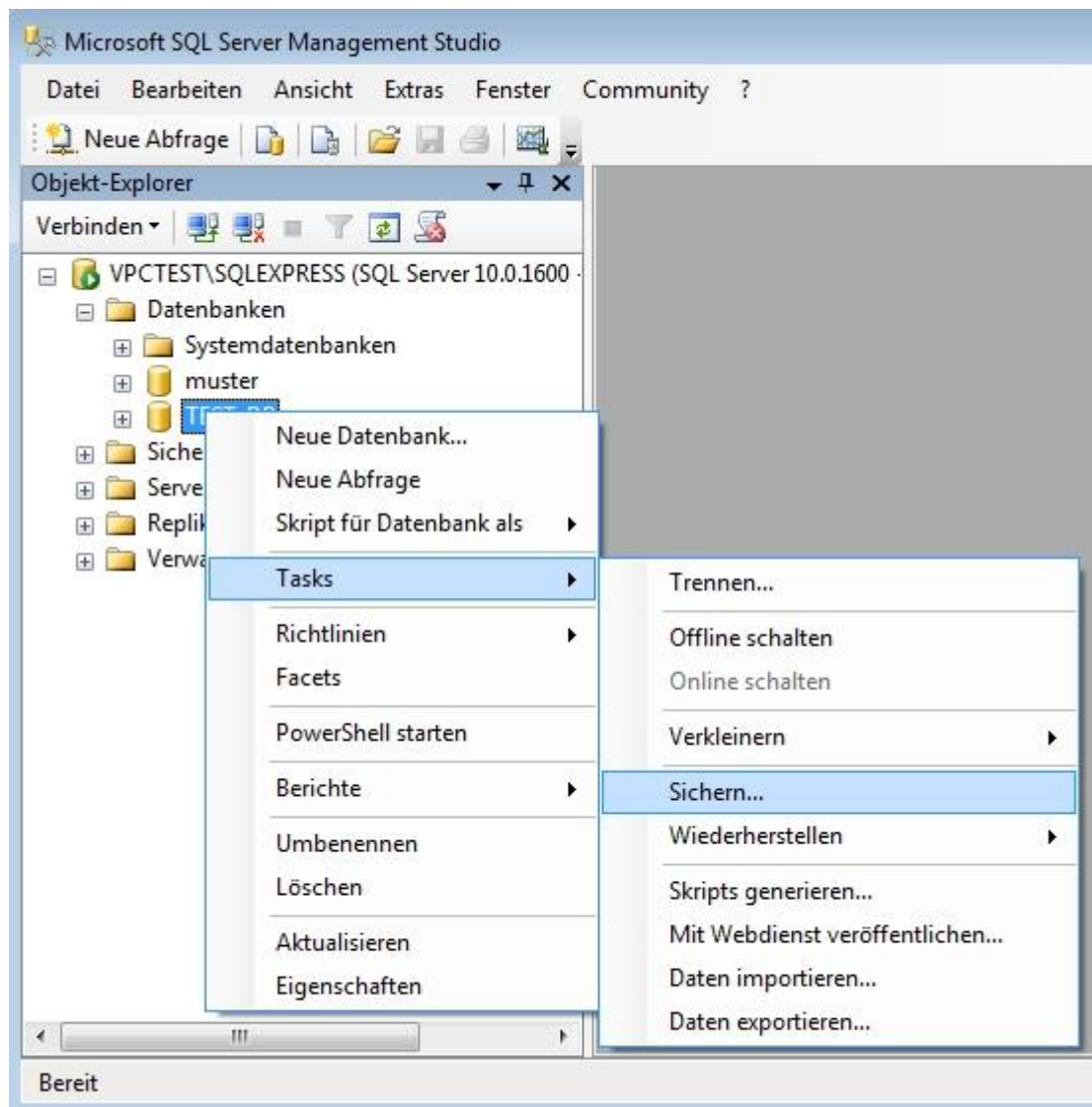
[Microsoft® SQL Server® 2012 Service Pack 2 \(SP2\) Express](#)

in these files, the "SQL Server Managementstudio" is included: "SQLEXPRT_x64_EN.exe" bzw. "SQLEXPRT_x86_EN.exe"

After login select the database which you want to backup.



Via right-click on the database choose "Tasks -> backup".



Most options should be fine in default settings..

It is important that the type of backup is "complete".

Name the backup-set and set a location for storage.

Datenbank sichern - TEST_DB

Seite auswählen

- Allgemein
- Optionen

Verbindung

Server:
VPCTEST\SQLEXPRESS

Verbindung:
VPCTEST\Tester

[Verbindungseigenschaften anzeigen](#)

Status

Bereit

Quelle

Datenbank: TEST_DB

Wiederherstellungsmodell: EINFACH

Sicherungstyp: Vollständig

☐ Nur Sicherung kopieren

Sicherungskomponente:

☒ Datenbank

☐ Dateien und Dateigruppen:

Sicherungssatz

Name: TEST_DB-Vollständig Datenbank Sichern

Beschreibung:

Sicherungssatz läuft ab:

☒ Nach: 0 Tagen

☐ Am: 10/ 4/2011

Ziel

Sichern auf: ☒ Festplatte ☐ Band

C:\Temp\backup\sicherung_testdb.bak

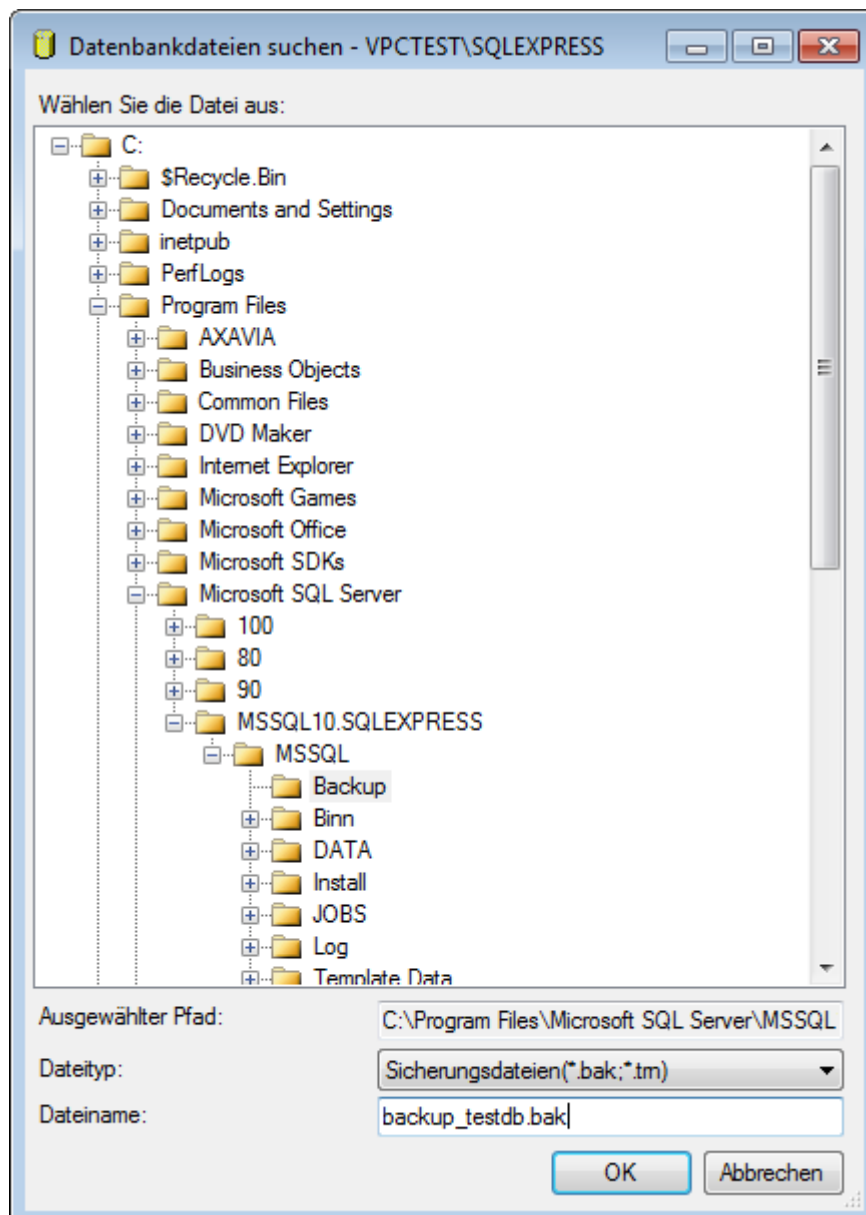
Hinzufügen...

Entfernen

Inhalt

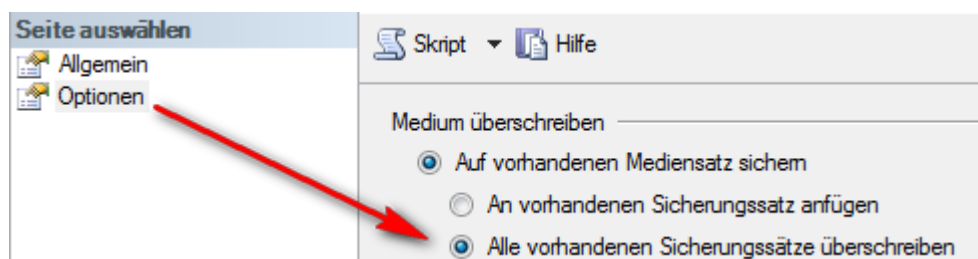
OK Abbrechen

Remove existing pathes, if you don't want to overwrite or backup to more than one location.
Please always append the ending ".bak", otherwise the backup file is not displayed for restore.

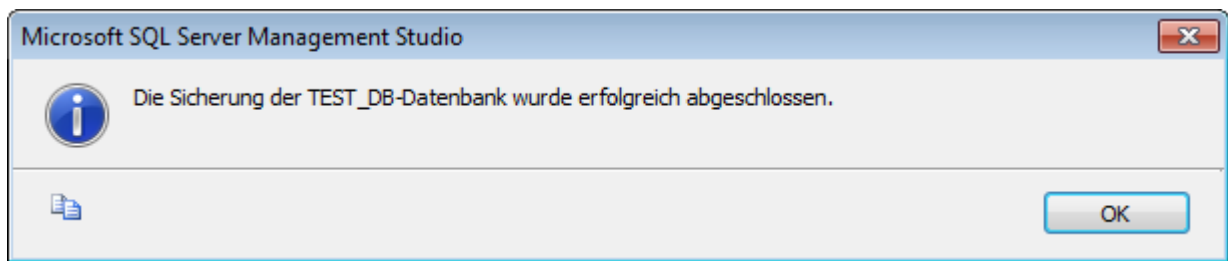


At the "options" change the settings:

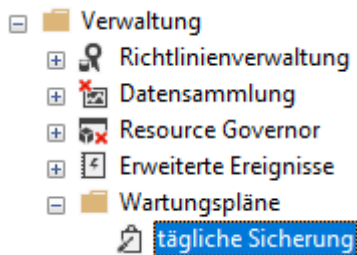
"Overwrite all existing backup-sets", otherwise it blows up the backup-set and maybe you get problems during restore.



If all options set, start the backup with "OK" and finish the success-message with "OK", too.



6.1.1-



6.1.2-Database backup via BAT-file and SQL-Script

You may run the backups regularly (daily, weekly, ...) and script-based.

Therefore please use the task scheduler of Windows, which starts a backup batch file continuously.

This batch file runs a SQL script to backup certain databases.

Example 1: Backup of more than one databases with timestamp in filename.

BAT-file: DBBackup_common.bat

calls a SQL-file, which performs the real backup.

```
REM if 'osql' does not work, enter the path to the EXE e.g.: "C:\Program Files\Microsoft SQL
Server\100\Tools\bin\SQLCMD.EXE" \
REM -U admin -P axavia -L = list servers; -S servername; -E = trustful connection; -i input-file;
-o output-file
osql -S PC-HKR\SQL2008R2EXPRESS -E -i D:\DBBackup\DBBackup_common.sql -o
D:\DBBackup\DBBackup_LOG.txt
```

SQL-file: DBBackup_common.sql

```
DECLARE @dbname VARCHAR(50) -- database name
DECLARE @path VARCHAR(256) -- path for backup files
DECLARE @fileName VARCHAR(256) -- filename for backup
DECLARE @fileDate VARCHAR(20) -- used for file name
DECLARE @mediaLabel VARCHAR(20) -- used for media name

-- specify database backup directory
SET @path = 'D:\DBBackup_'

-- specify filename format
SELECT @fileDate = CONVERT(VARCHAR(20), GETDATE(), 112)

DECLARE db_cursor CURSOR FOR
SELECT name
FROM master.dbo.sysdatabases
```

```

WHERE name NOT IN ('master','model','msdb','tempdb') -- exclude these databases
--AND name IN ('TEST_DB1', 'ProdDB') -- only these databases

OPEN db_cursor
FETCH NEXT FROM db_cursor INTO @dbname

WHILE @@FETCH_STATUS = 0
BEGIN
    SET @fileName = @path + @dbname + '_' + @fileDate + '.bak'
    SET @mediaLabel = @dbname + '_' + @fileDate
    BACKUP DATABASE @dbname TO DISK = @fileName WITH MEDIANAME = @mediaLabel, MEDIADESCRIPTION
= 'daily backup', STATS = 5;

    FETCH NEXT FROM db_cursor INTO @dbname
END

CLOSE db_cursor
DEALLOCATE db_cursor

```

Example 2: Simple backup of one database

BAT-file: DBBackup_simple.bat

calls a SQL-file, which performs the real backup.

```

REM if 'osql' does not work, enter the path to the EXE e.g.: "C:\Program Files\Microsoft SQL
Server\100\Tools\bin\SQLCMD.EXE" \
REM -U admin -P axavia -L = list servers; -S servername; -E = trustful connection; -i input-file;
-o output-file
osql -S PC-HKR\SQL2008R2EXPRESS -E -i D:\DBBackup\DBBackup_simple.sql -o
D:\DBBackup\DBBackup_sLOG.txt

```

SQL-Datei: DBBackup_einfach.sql

führt das Backup auf SQL-Ebene aus.

```

USE Meine_DB;
GO
BACKUP DATABASE Meine_DB
TO DISK = 'C:\DBBackup\Meine_DB.bak'
WITH FORMAT,
    MEDIANAME = 'Meine_DB',
    MEDIADESCRIPTION = 'daily backup',
    NAME = 'Full Backup of Meine_DB'
WITH STATS = 5;
GO

```

6.1.3-Delete backup-files via BAT-file

The backups created automatically, you can backup them to an external drive and then delete the created backups via bat file, to hold the space for automated backups freely.

Example:

BAT-file: DBBackup_delete.bat

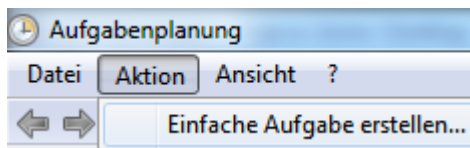
```

REM delete old BAK-files
del D:\DBBackup\*.bak

```

This BAT file can be accessed, for example, weekly (on a MS Windows task) after the files have been backed up to an external drive.

6.1.4-



6.2-Secure data directory

If there is not clear, where the directories are located that are used, the paths can be found in Axavia in the properties of the "root" within the view "AXAVIAconfiguration".

970 - Basefolders	971 - DMS options
Base folder material library	D:\Axavia\Work\yourDir\product
Base folder document structure	D:\Axavia\Work\yourDir\documents
Base folder projects	D:\Axavia\Work\yourDir\projects
Base folder object templates	D:\Axavia\Work\yourDir\default
Base folder document library	D:\Axavia\Work\yourDir\documentLibraries
Base folder mailbox	D:\Axavia\Work\yourDir\mailbox
Base folder synchronization	D:\Axavia\Work\yourDir\sync
Base folder index files for index search	D:\Axavia\Work\yourDir\index
Base folder for offline synchronization protocols	D:\Axavia\Work\yourDir\OfflineSyncLogs
Base folder	D:\Axavia\Work\yourDir

Die jeweiligen Verzeichnisse können dann einfach über den Windows Explorer weg kopiert oder gezippt werden.

Grundsätzlich sollten die Verzeichnisse täglich automatisch gesichert werden.

Sofern es keine Abweichungen vom "Basisverzeichnis" gibt bei den anderen Pfaden, genügt es, die Dateien aus dem Basisverzeichnis zu sichern.

The respective directories can then simply be copied via the Windows Explorer or zipped away.

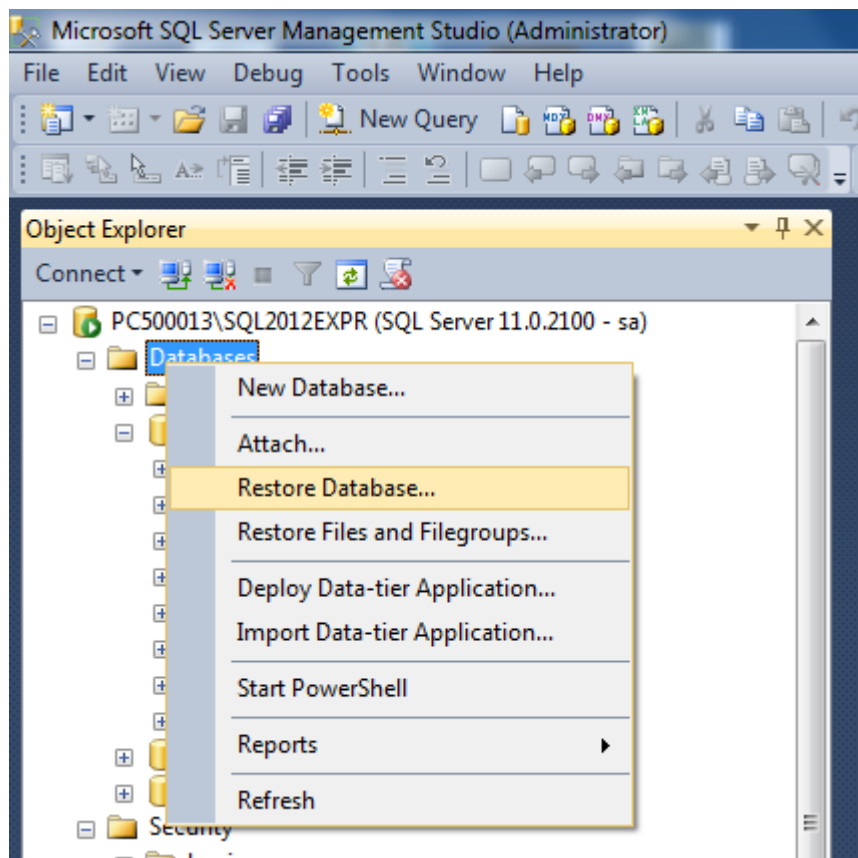
Basically, the folders should be automatically backed up daily (incrementally or differently).

If there are no deviations from the "base folder" at the other paths, it is enough to back up the files from the "Base folder".

6.3-Database restore/recovery

- At databases via right-click open the menu and click the item:

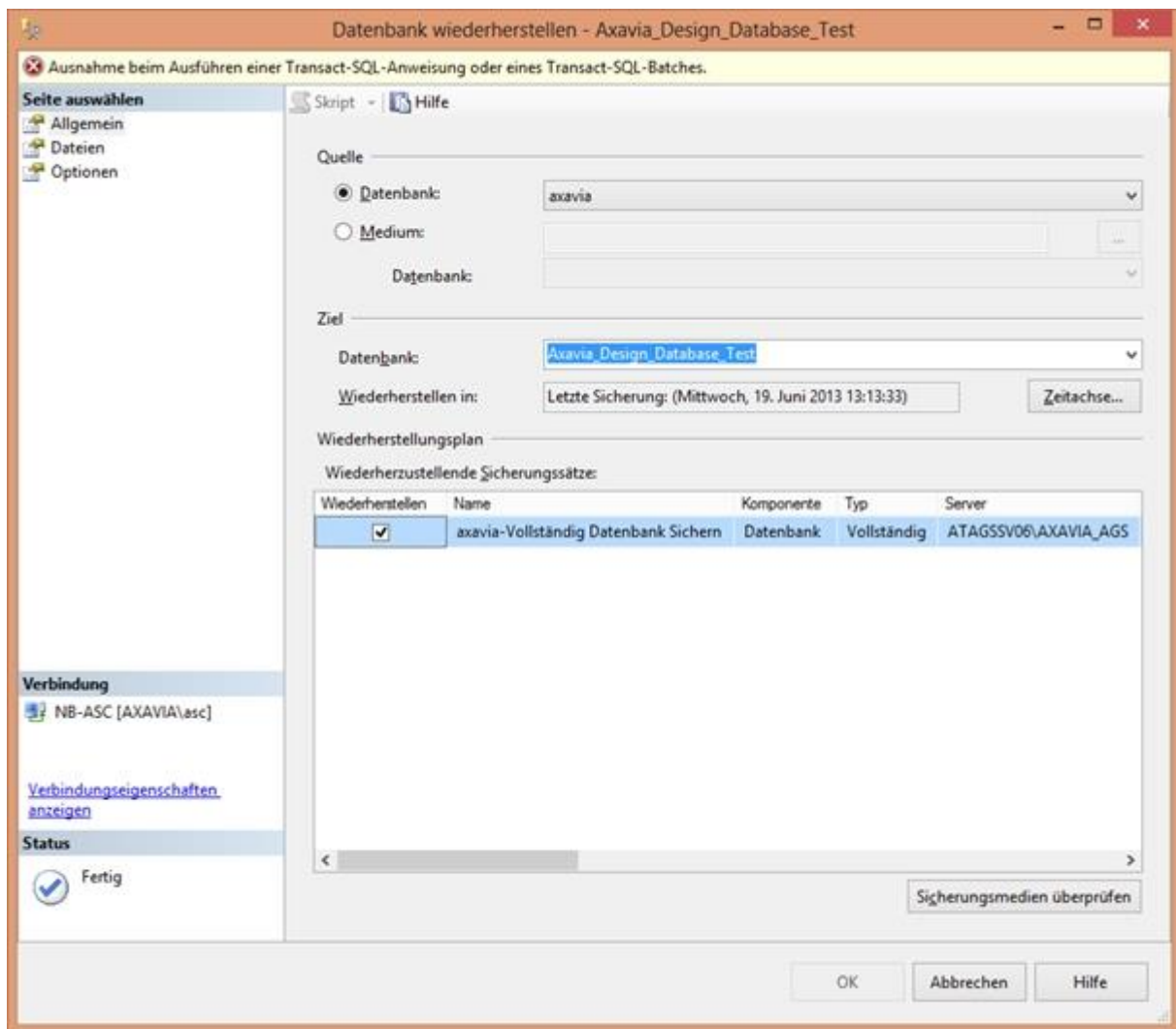
"Restore Database..."



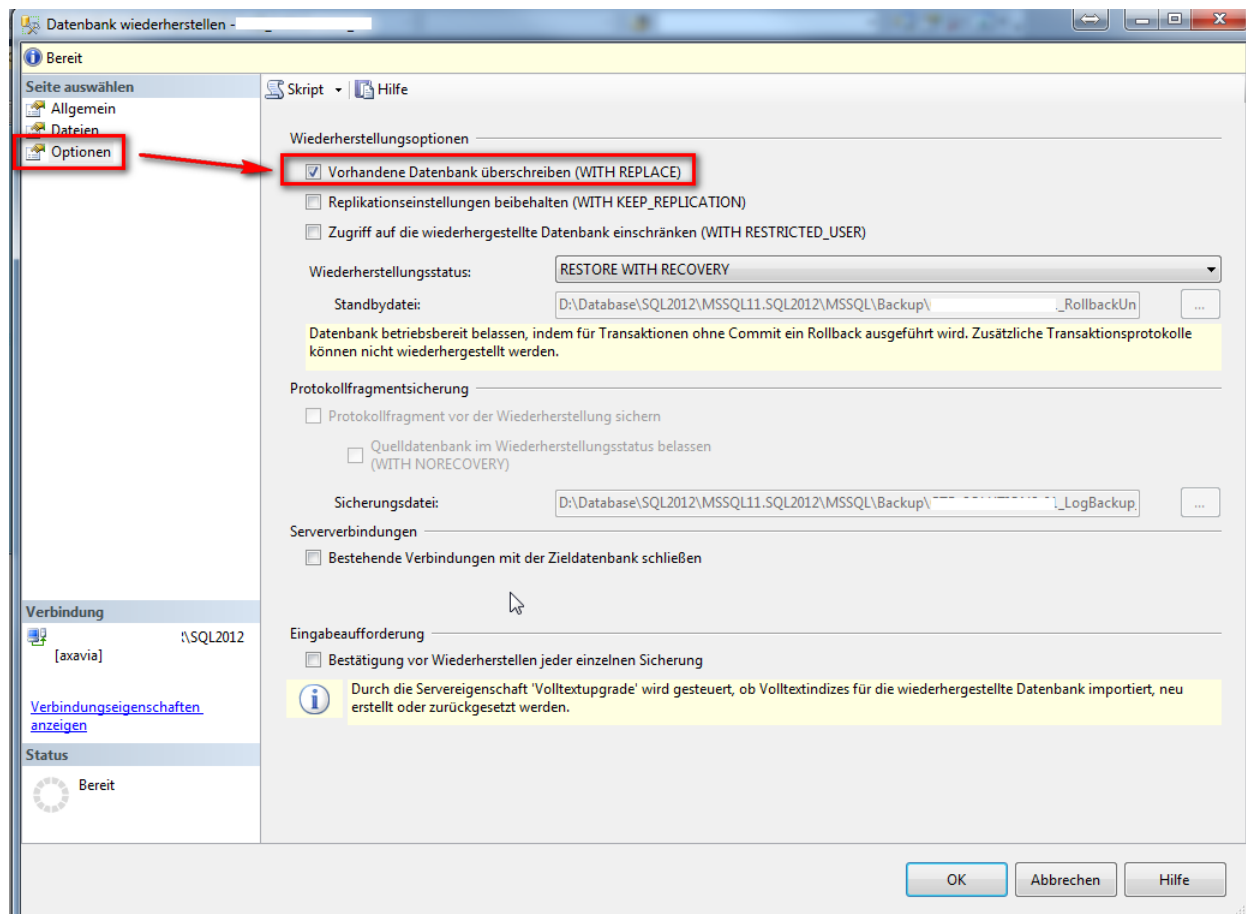
- Source database should be the one, you wish to restore (usually you only should have one database per backup-set, if you choose "Device")

- We recommend to restore from already saved backup-files (*.bak) to avoid errors.

Destination is a new named or an existing test- or developer database, or, in case of problems, the production database itself (hopefully not).



At the options-section choose "Overwrite all existing backup sets" (WITH REPLACE).



6.3.1-Database recovery via BAT/CMD file and SQL script

D:\AXAVIA\Work>\\AXAVIAACADEMY01\Work\RestoreTestDB.cmd Progress:

```
D:\AXAVIA\Work>osql -U axavia -P axavia -S AXAVIAACADEMY01\SQL2014 -i RestoreTestDB.sql
1> 2> 10 Prozent verarbeitet.
20 Prozent verarbeitet.
```

6.3.2-Database backup via BAT-file and SQL-Script

You may run the backups regularly (daily, weekly, ...) and script-based.

Therefore please use the task scheduler of Windows, which starts a backup batch file continuously.

This batch file runs a SQL script to backup certain databases.

Example 1: Backup of more than one databases with timestamp in filename.

BAT-file: DBBackup_common.bat

calls a SQL-file, which performs the real backup.

```
REM if 'osql' does not work, enter the path to the EXE e.g.: "C:\Program Files\Microsoft SQL
Server\100\Tools\bin\SQLCMD.EXE" \
REM -U admin -P axavia -L = list servers; -S servername; -E = trustful connection; -i input-file;
-o output-file
osql -S PC-HKR\SQL2008R2EXPRESS -E -i D:\DBBackup\DBBackup_common.sql -o
```

D:\DBBackup\DBBackup_LOG.txt

SQL-file: DBBackup_common.sql

```

DECLARE @dbname VARCHAR(50) -- database name
DECLARE @path VARCHAR(256) -- path for backup files
DECLARE @fileName VARCHAR(256) -- filename for backup
DECLARE @fileDate VARCHAR(20) -- used for file name
DECLARE @mediaLabel VARCHAR(20) -- used for media name

-- specify database backup directory
SET @path = 'D:\DBBackup_

-- specify filename format
SELECT @fileDate = CONVERT(VARCHAR(20),GETDATE(),112)

DECLARE db_cursor CURSOR FOR
SELECT name
FROM master.dbo.sysdatabases
WHERE name NOT IN ('master','model','msdb','tempdb') -- exclude these databases
--AND name IN ('TEST_DB1', 'ProdDB') -- only these databases

OPEN db_cursor
FETCH NEXT FROM db_cursor INTO @dbname

WHILE @@FETCH_STATUS = 0
BEGIN
    SET @fileName = @path + @dbname + '_' + @fileDate + '.bak'
    SET @mediaLabel = @dbname+'_' + @fileDate
    BACKUP DATABASE @dbname TO DISK = @fileName WITH MEDIANAME = @mediaLabel, MEDIADESCRIPTION
= 'daily backup', STATS = 5;

    FETCH NEXT FROM db_cursor INTO @dbname
END

CLOSE db_cursor
DEALLOCATE db_cursor

```

Example 2: Simple backup of one database

BAT-file: DBBackup_simple.bat

calls a SQL-file, which performs the real backup.

```

REM if 'osql' does not work, enter the path to the EXE e.g.: "C:\Program Files\Microsoft SQL
Server\100\Tools\bin\SQLCMD.EXE" \
REM -U admin -P axavia -L = list servers; -S servername; -E = trustful connection; -i input-file;
-o output-file
osql -S PC-HKR\SQL2008R2EXPRESS -E -i D:\DBBackup\DBBackup_simple.sql -o
D:\DBBackup\DBBackup_sLOG.txt

```

SQL-Datei: DBBackup_einfach.sql

führt das Backup auf SQL-Ebene aus.

```

USE Meine_DB;
GO
BACKUP DATABASE Meine_DB
TO DISK = 'C:\DBBackup\Meine_DB.bak'
WITH FORMAT,
    MEDIANAME = 'Meine_DB',
    MEDIADESCRIPTION = 'daily backup',
    NAME = 'Full Backup of Meine_DB'
WITH STATS = 5;

```

GO

6.4-

6.4.01-

6.9-FAQ

6.9.01-Einzelbenutzermodus / single user mode / SINGLE_USER /Mehrbenutzermodus / MULTI_USER mode

1) Single user mode / SINGLE_USER / MULTI_USER mode

if the DB falls into single user modes (e.g. accidental restore of a running database)
perform the following steps to create the multi-user mode again:

Always work directly on the SQL Server itself!!

SQL-Server Configurationmanager:

*STOP all SQLServer-services

*SQL Server-Networkconfiguration: Protocols for "..." -> TCP/IP deactivate (to cut off users)

*Start SQLServer-service

SQL Server Managementstudio:

*Right-click on the database, Properties -> Options: select entry "state": Change "access" to "MULTI_USER".

SQL-Server Configurationmanager:

*SQL Server-Networkconfiguration: Protocols for "..." -> activate (to allow access over network for users again)

*Start ALL SQLServer-services again

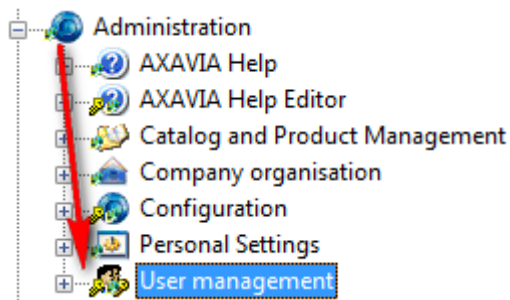
6.9.02-

7-User Management

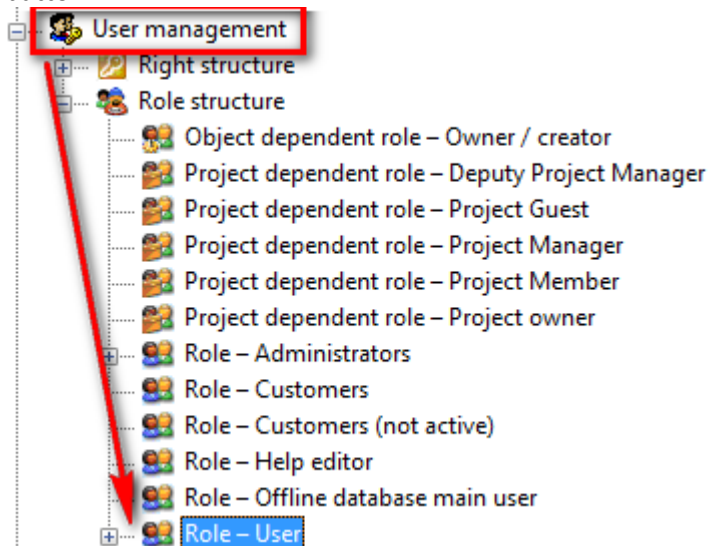
7.01-Create a user account

For managing user accounts, the view AXAVIAconfiguration is used.

After the start of "AXAVIAseries desktop" switch over to view "AXAVIAconfiguration" scheme by double clicking "Configuration" in the node "Administration".



After selecting a previously created user role, a user can be created with the toolbar or the right mouse button.



After filling out the data and clicking the "OK"-button, the user account is stored.

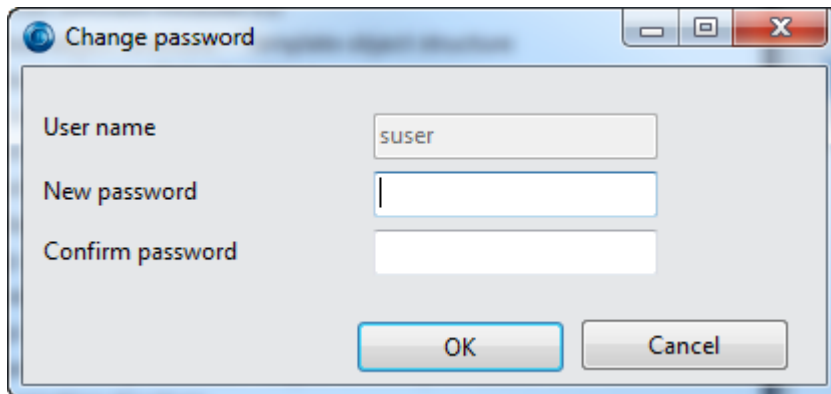
In the properties of the user account more data can be entered:

Favourites	100 - Safety options	900 - General
User name	suser	
OS login authentication	☐	
OS user name	---	
Full name	Sampleuser	
Email	---	
Role	User	
Edit mode	Operator	

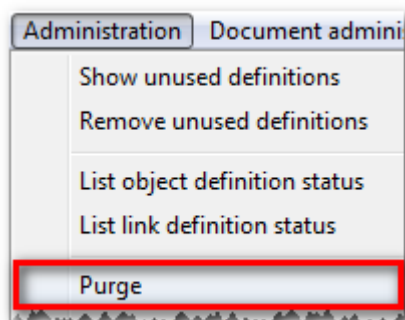
Via right-click on the user account, the user can change its own password.

Change password

In the context menu, the password can be set and the old password will be overwritten.



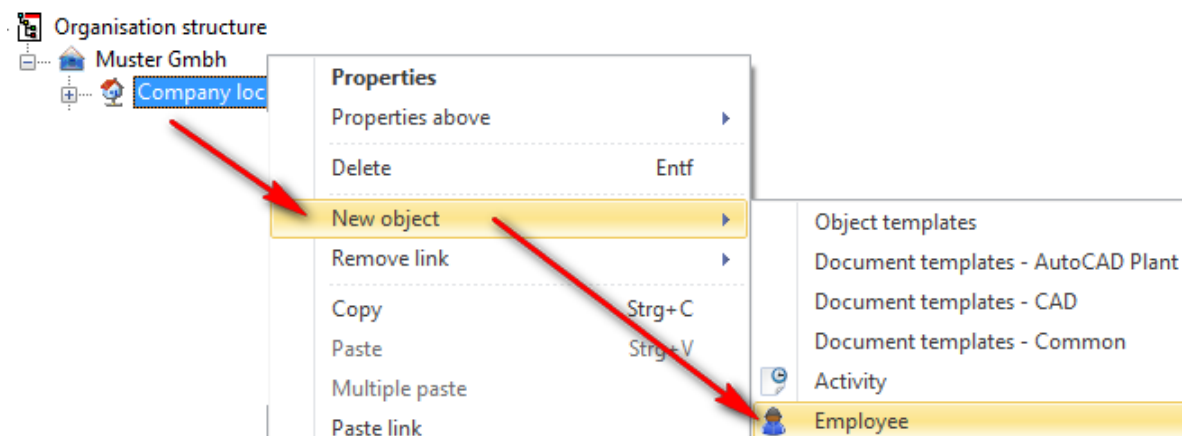
Hinweis: In earlier AXAVIA-versions after delete and recreate the same user, it was necessary to empty the trashbin ("purge") of the database via "Axavia Administrator.exe".

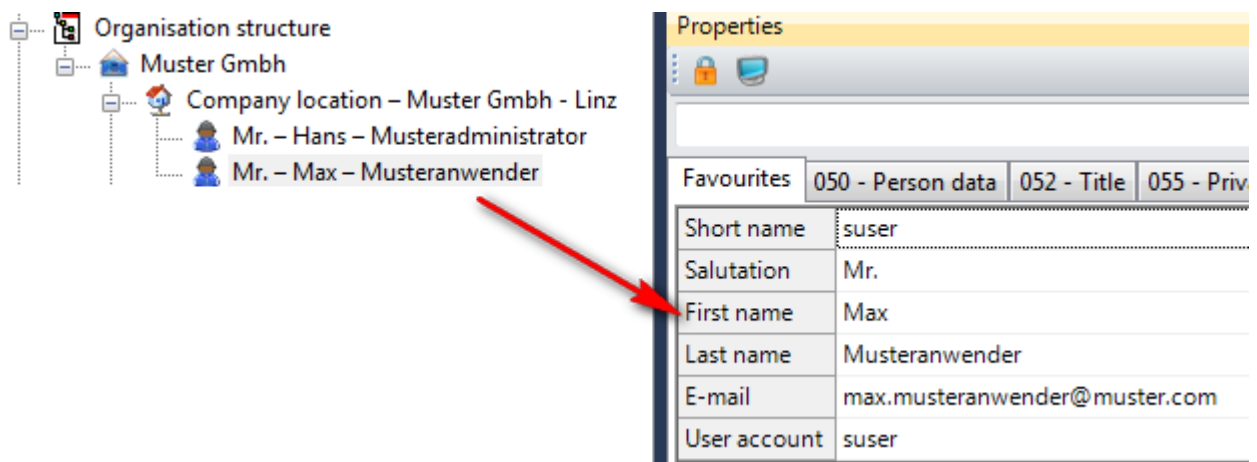


7.02-Staff to account

In AXAVIAseries the user account is not a synonym for the employee. In some installations the relation between employees and users is not the same (more users or more employees).

This is the reason why user accounts and employees are two different types of objects. To link a user account with an employee, you have to choose the user account at the employee in the tab "900-General".





The best view to create the employees is AXAVIAconfiguration. Every employee is assigned to one company location and to one or more devisions. Address and Phone number are inherited by the company location.

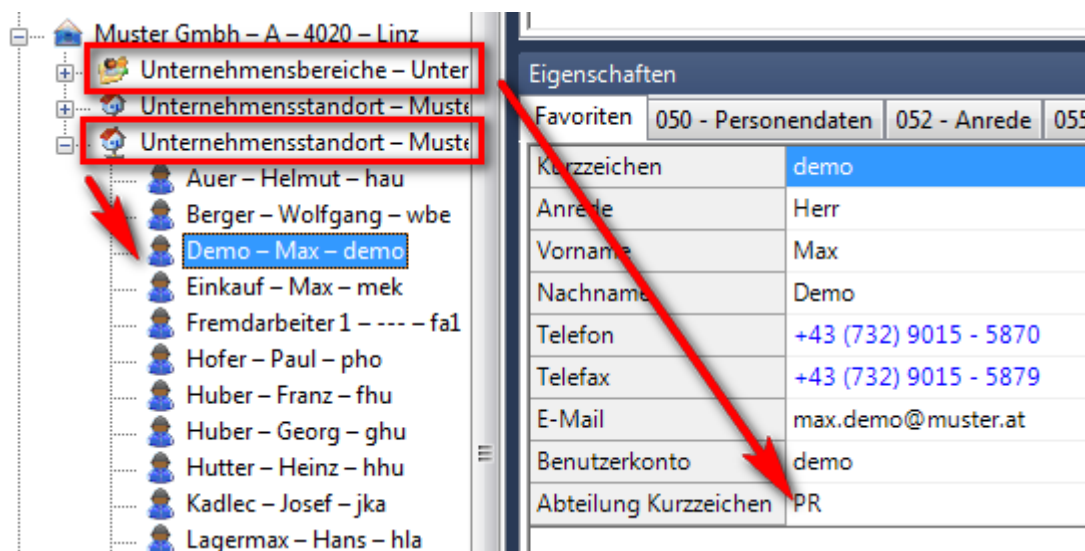


Figure: Employees created

A very important value at the objects devision and employees is "Shortname".

Attention: You can not link users and employees by drag&drop.

8-Uninstall Guide

8.1-Uninstall services

1) Stop all Axavia-services at server

Aufruf: Windows -> services.msc



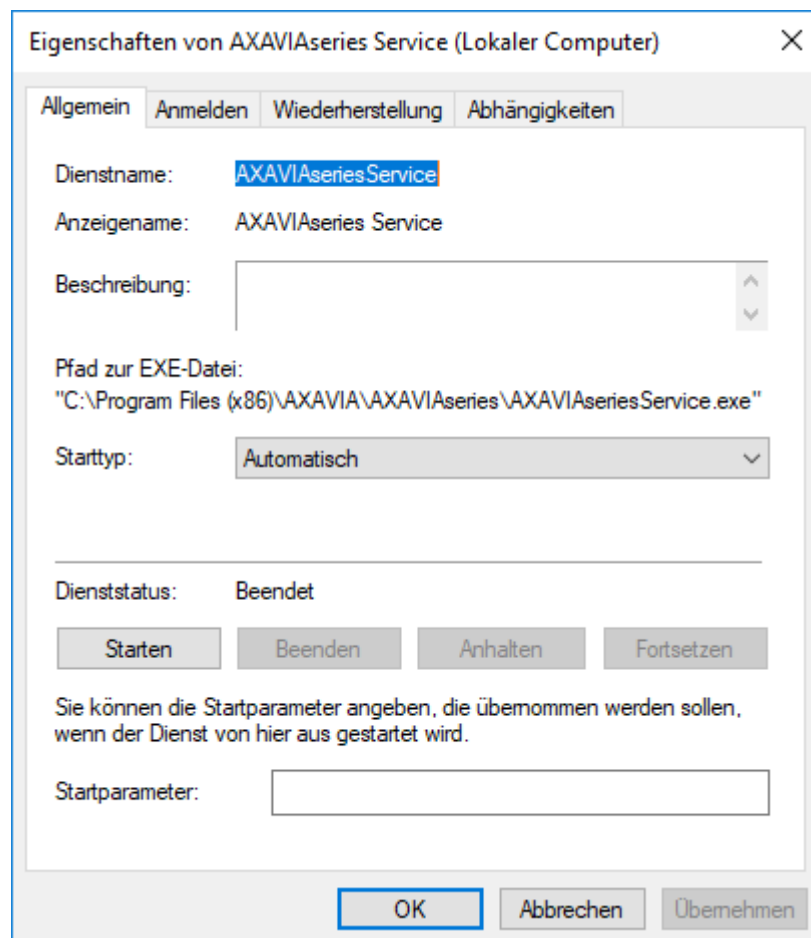
2) Deregister the services

Start command prompt with elevated privileges.

`sc delete 'servicename'`

Example: Service has the default name "AXAVIAseriesService"

`sc delete AXAVIAseriesService`



8.2-Uninstall plugins

Similar to registration, unregistering Axavia automatically.

In AutoCAD, the Axavia profile must also be deleted and possibly the support folder must be deleted from the AutoCAD directory.

If leftovers are unexpectedly left, they can be unregistered with the Windows command (in a command prompt with administrator privileges). This may be necessary if some Register.bat were called without setup.

In this case, the easiest solution would be to expand the contents of these *.bat files with the /u parameter and then run them. To do this, however, before uninstalling Axavia, you should save the installation folder once (C:-Program Files (x86)-AXAVIA-AXAVIAseries).

Example: change "register.bat" to "unregister.bat"

```
rem regsvr32 /u%1% RegWithInstallerContentServer.dll
regsvr32 /u%1% ".\dsofile.dll"
regsvr32 /u%1% ".\NavisWorksViewer\lcodiedx.dll"
regsvr32 /u%1% ".\Modules\Email\V1.0\AxaviaRedemption.dll"
regsvr32 /u%1% ".\Modules\EdiFact\V1.0-eurobeam.dll"
```

Example: "RegisterGCIInventor2013PlugIn64.bat" change to "unRegisterGCIInventor2013PlugIn64.bat"

```
if exist "C:\WINDOWS-Microsoft.NET\Framework64-v4.0.30319-regasm.exe" set
regasm="C:\WINDOWS-Microsoft.NET\Framework64-v4.0.30319-regasm.exe"
%regasm% /unregister /tlb:"GCIInventor2013PlugIn.tlb" "GCIInventor2013PlugIn.dll"
/codebase
```

General syntax: Deregistration of DLLs

```
regsvr32 -u <path><filename>.dll
```

```
regasm /unregister "full path to your DLL in double quotes"
```

General example:

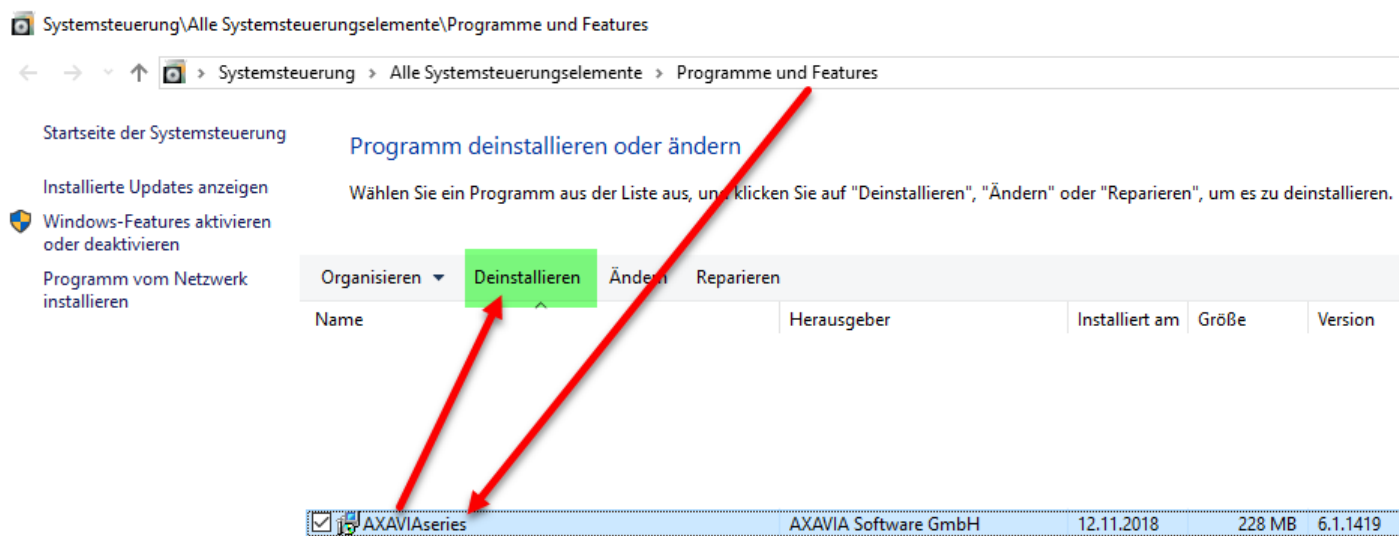
```
regsvr32 -u C:-Program Files (x86)-AXAVIA-AXAVIAseries-GCIInventor2013PlugIn.dll
```

```
regasm /unregister C:'Program Files (x86)'AXAVIA'AXAVIAseries'GCIInventor2013PlugIn.dll
```

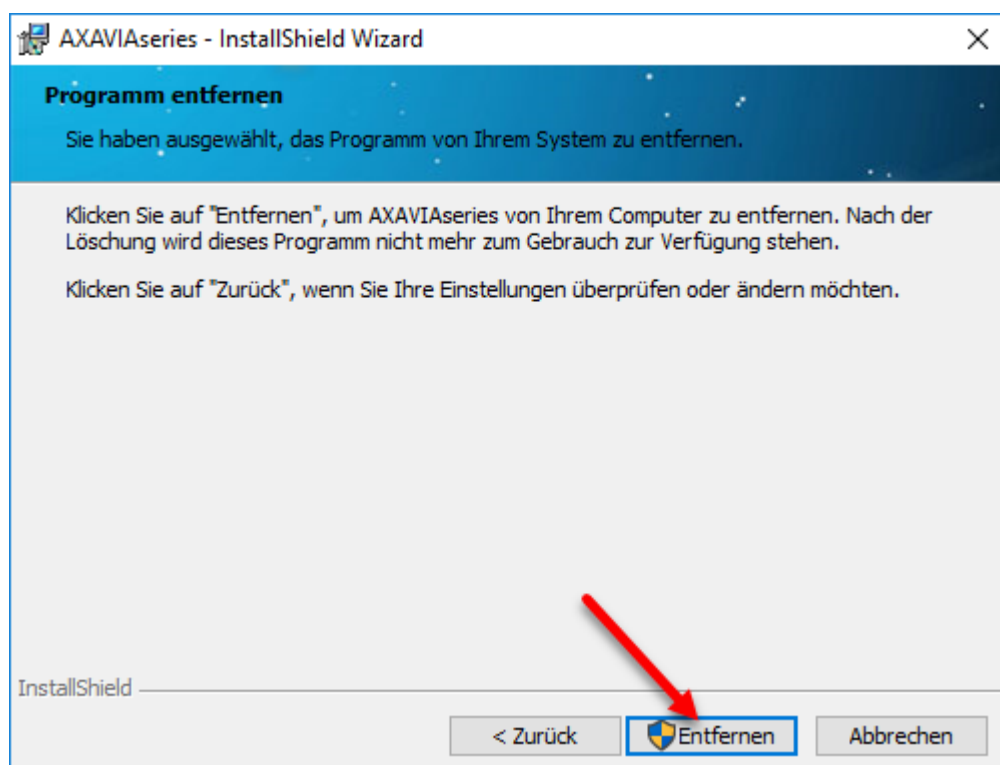
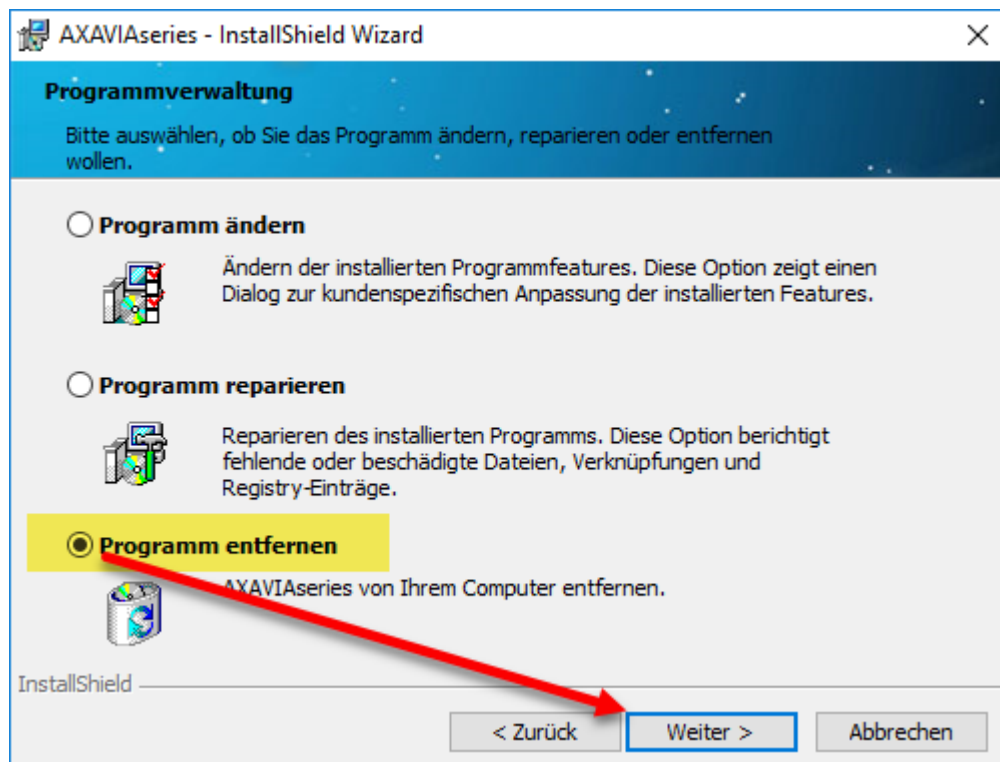
8.3-Uninstall AXAVIAseries Desktop

As used to do it under MS Windows via uninstall software:

Start -> Systemsteuerung -> Programme und Features



or start Axavia-Setup and click program uninstall:



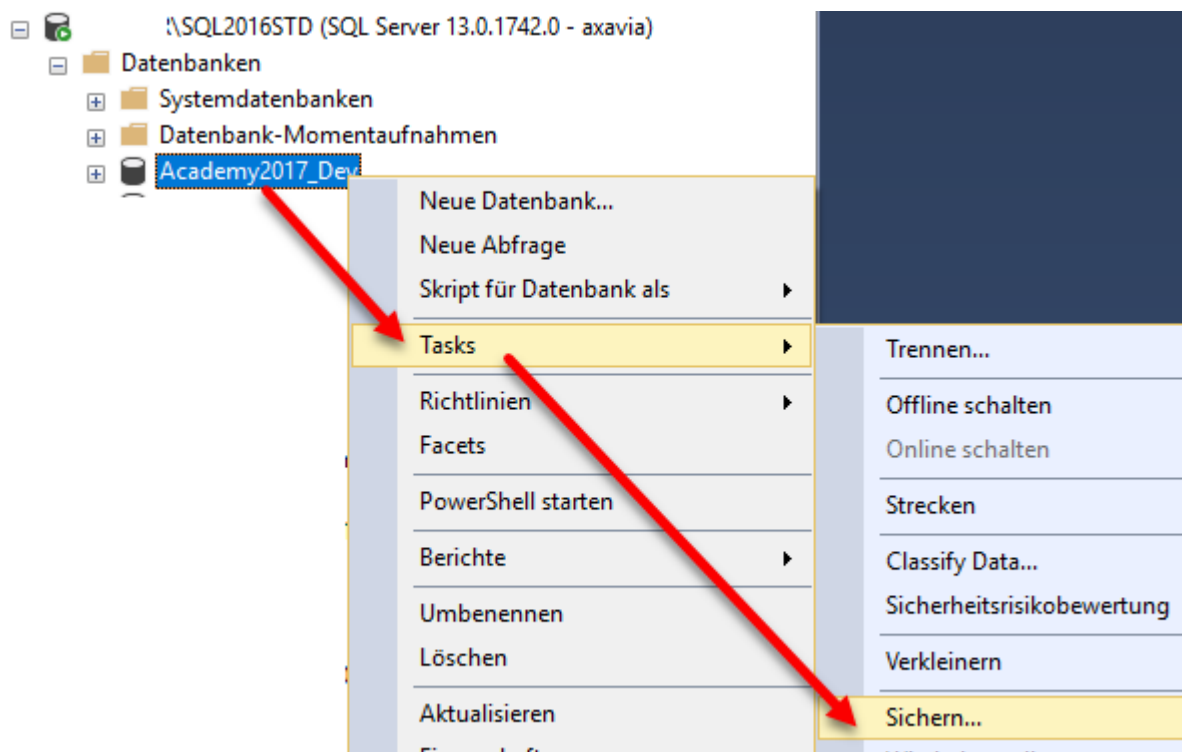
8.4-Delete Axavia database

if needed: Delete the database at SQL Server

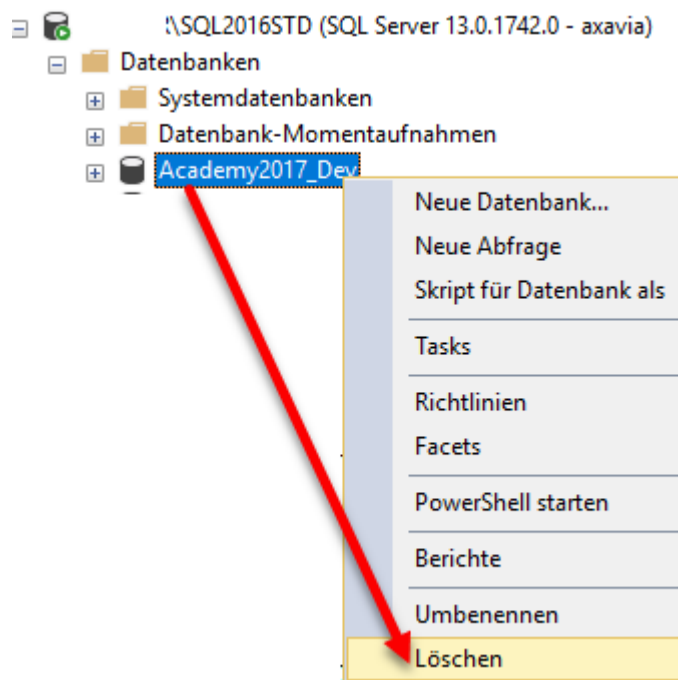
Hinweis: Note: Before doing so, however, a backup should be made in case access to the contents of the database should still be necessary later on. Also a version of Axavia should be backed up for

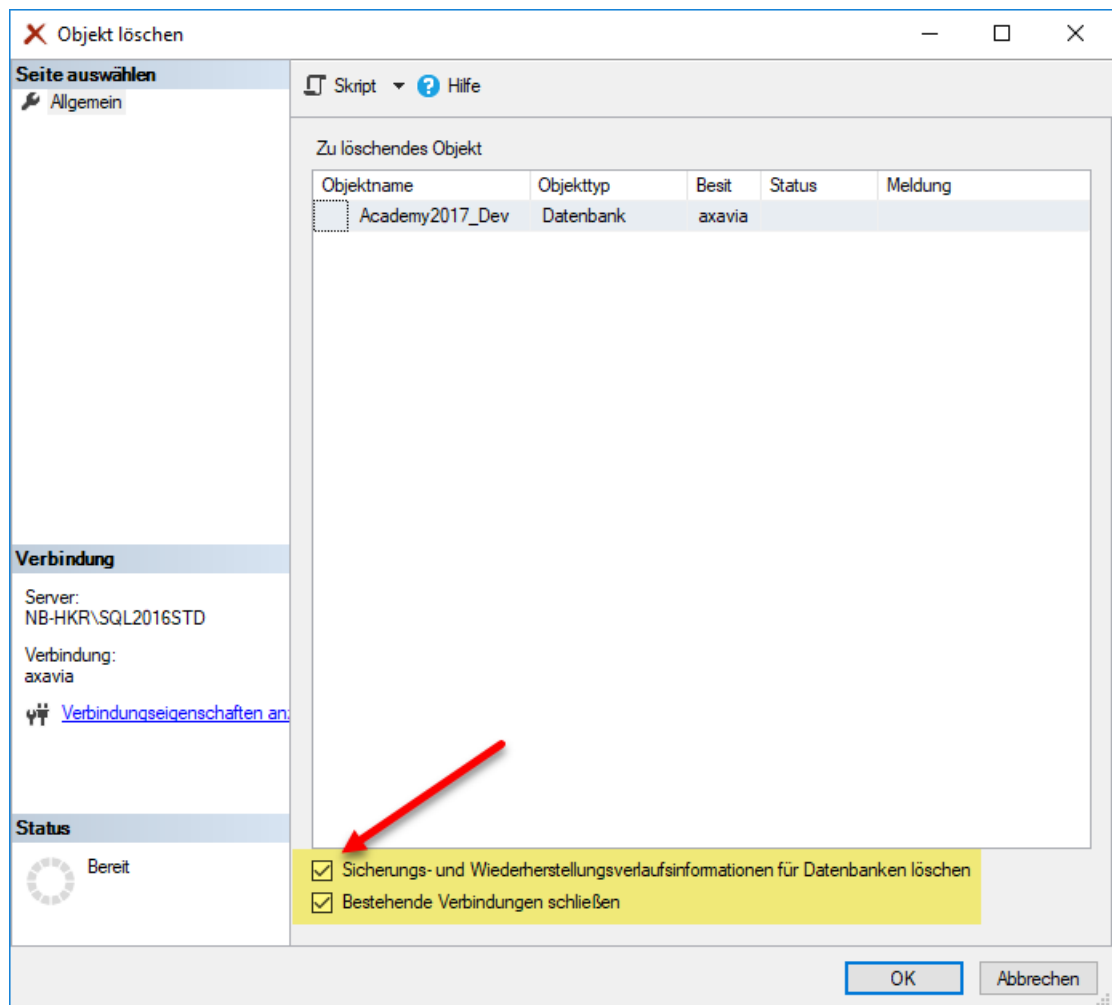
this purpose, incl. base directory.

Backup of the database:



Delete the database:





8.5-Uninstall SQL Server

The SQL Server is uninstalled, if it is set up only to use AXAVIA, according to Microsoft's instructions.

9-Performance tips (general)

If there are fundamental problems regarding performance (access times high, transfer rate low), then a number of things can be checked in advance that could be slowing things down.

9.01-General issues

EXTERNAL controls:

* Exchange server and DB server should NEVER be installed together on the same server, because the Exchange server generates a lot of main memory and high disk load.

* Backup software active on DB server?

Anything that needs access to the shared external storage slows down the response times for the SQLServer.

* Do not use SQLExpress:

can have a maximum of

- 10 GB per database
- Uses no more than 1 processor.
- Uses no more than 1 GB of internal memory.

use.

1 GB of main memory is ALWAYS full, so it must be constantly swapped to disk (very slow). ExchangeServer also uses the hard disk intensively (very slow).

* RAM for SQL Server should ideally be slightly more than the database size, so that the database can be kept completely in memory.

* SSDs should be used, as access to external cache is slow when swapped out.

* Additional open databases on the server reduce the performance of the productive, because the main memory must be shared with other DBs.

* Check network connection/hardware (switches, cables, network card, ... etc.) of affected clients.

Gigabit connection useful.

Full cache of a switch?

Is the response time on another computer the same?

Continuously high network load?

* Virus scanner may also be relevant?

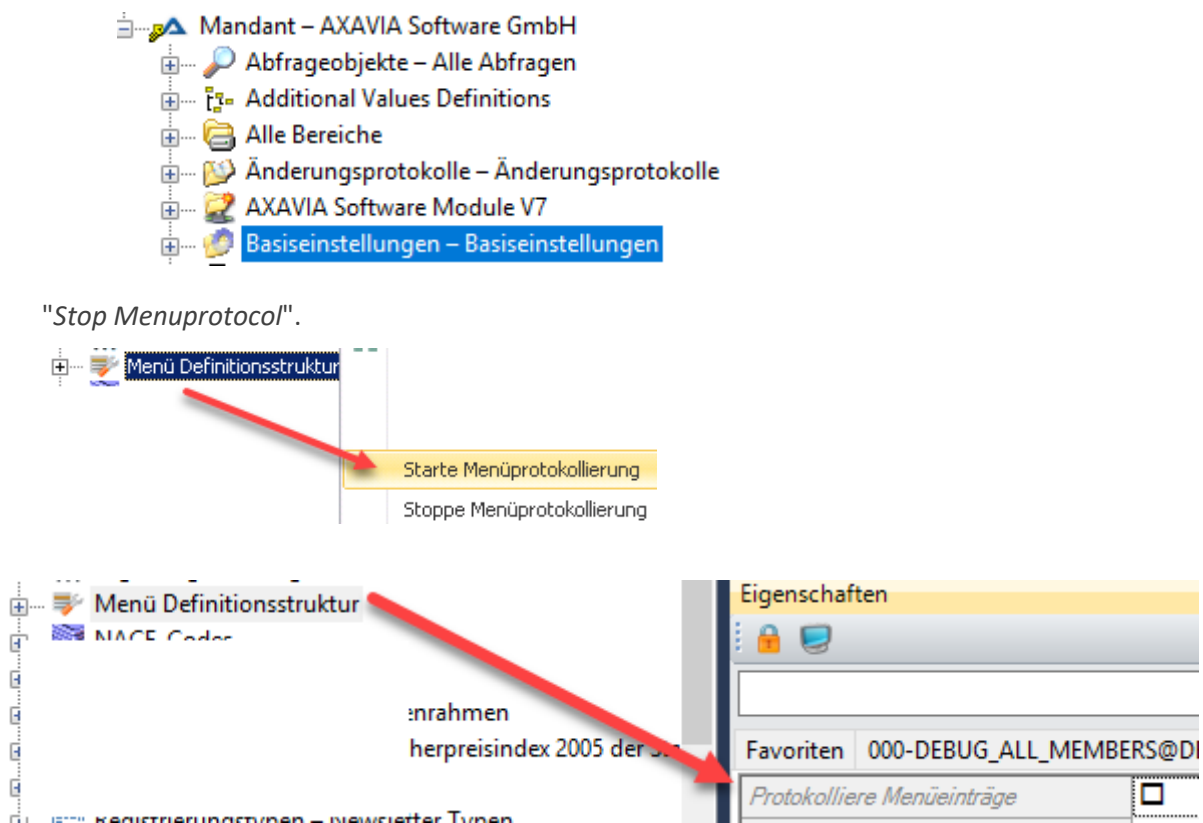
Possibly exclude the DB directory from the scan (i.e. the folder where the SQL DB is located).

* Check virtual servers, if settings can be improved there.

* Firewall not set optimally?

AXAVIA-side controls:

* Menu logging must be disabled under the client in the basic settings.



* Error log on client: check settings.

Should be on "Error".

Also clearing the log can help ("Error Log") set undefined (save database before to not lose existing LOG).

001-DEBUG_ALL_VALUES@DE	970 - Einstellungen	987 - Fi
Fehler Log	System.Byte[]	
Fehler Log Level	Fehler	

* Possibly many service jobs running during the day?

* Outlook-Syncs? Possibly run many and frequently, should be limited to the affected client.

Create query:



Abfrage – Alle Outlook-Synchronisationen

Bezeichnung	DE	Alle Outlook-Synchronisationen
	EN	All outlook-synchronisations
Objektklassen	Synchronisation mit Outlook	

Untergeordnete Objekte automatisch anzeigen

☒

Limit to affected client for syncs:

Autom. Synchronisation Rechnername NB-UserX

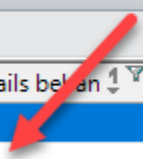
* Outlook email accounts? Here "Respond to Outlook events" is checked, handle/treat emails must be unchecked

Query for this:

Tabelle

Outlook EMailkonto Alle Objekte

	Objektklasse	Benutzername	Auf Outlook-Ev	Emails über die	EMails belan	Terminelement	Sync
▶	Outlook EMailkonto	sadmin	☐	☒	☐	☐	---
	Outlook EMailkonto	testdesign	☒	☒	☐	☒	---



* Maintain database regularly ([Example of maintenance steps of the database](#)).