THIS DOCUMENTATION IS FOR THOSE RESPONSIBLE FOR
INSTALLATIONS AND UPDATES

Pedago lön 2.22.0.x - Technical

March 2025
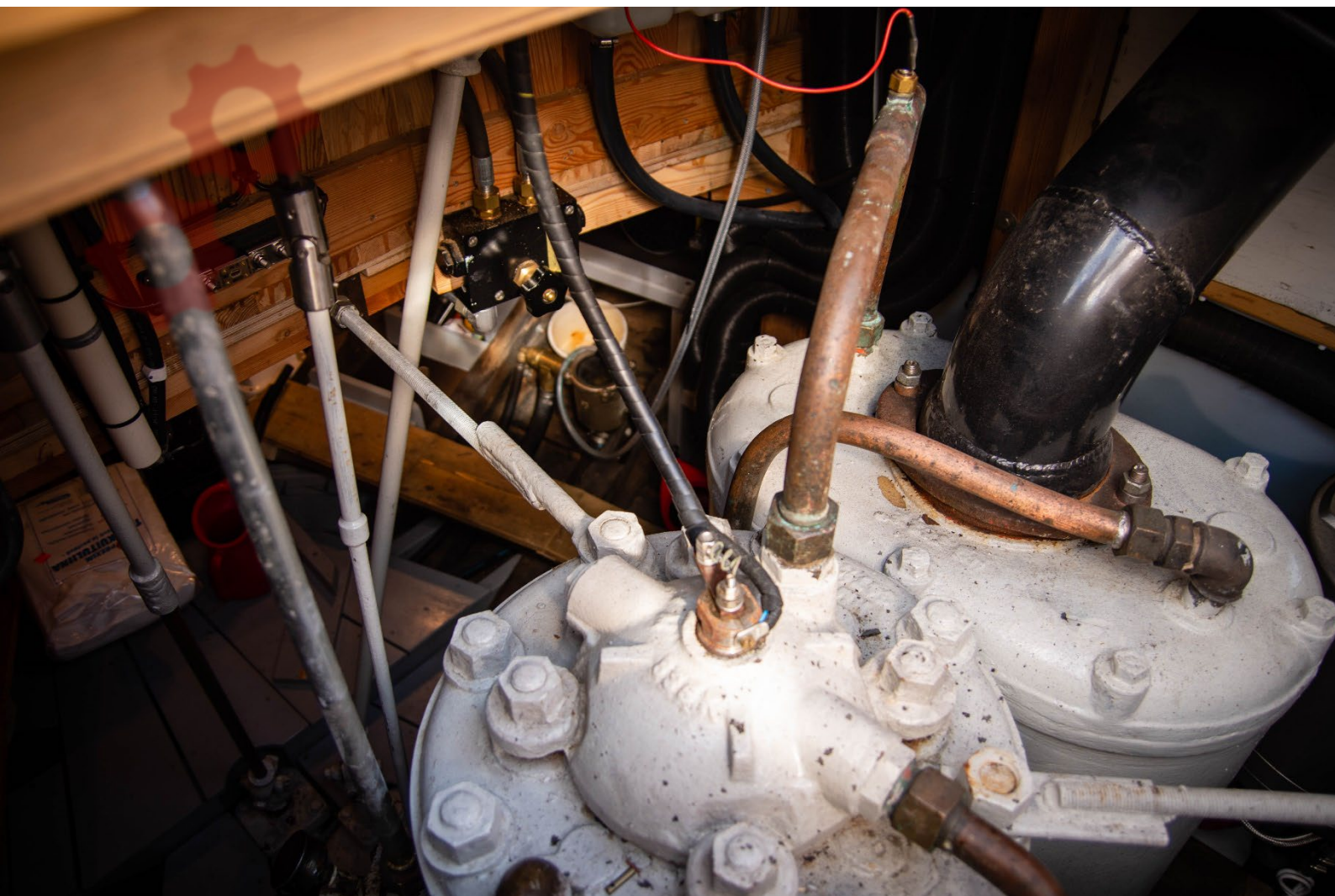
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Update and installation

Please read this BEFORE starting the update and please do not hesitate to contact us if there is anything unclear.

We always strive to make our documentation better so if there is anything unclear, then please contact us via e-mail support@pedago.fi or phone +358 18 12060.

1 Update to version 2.22.0.x

1.1 When to update

You should update to version 2.22.0.x **when convenient!**

Before updating

- **Please, back-up all databases before updating!**

- Program files are usually installed in `C:\Program\Pedago`.

- Use SQL Server administrative tools to perform a backup.

- Check what version you are updating from.

Our recommendation is to update at least yearly when the new version is released.

- The client (lp.exe) can update from any version if you can log in with the master user 'sa'. If not, then update using SQL-scripts. To update from `2.21.x.x` to `2.22.0.x` you use the script `update2220.sql`.

If you are updating from an earlier version, then you need to run several scripts in succession. Say that you need to update from `2.9.5.x` to `2.20.0.x`. In that case you need to run `update2100.sql, update2200.sql` and `update2201.sql`. Scripts are located in a subfolder "sql" under the main program directory, usually `C:\Program Files (x86)\Pedago`.

1.2 Make sure that the folder Reports.tmp is empty

This folder is used by the installer as temporary storage. New reports are installed here and then moved to "Reports".

1.3 Download the installer before running

Download the installer (`lp2220_setup.exe`) from our web:

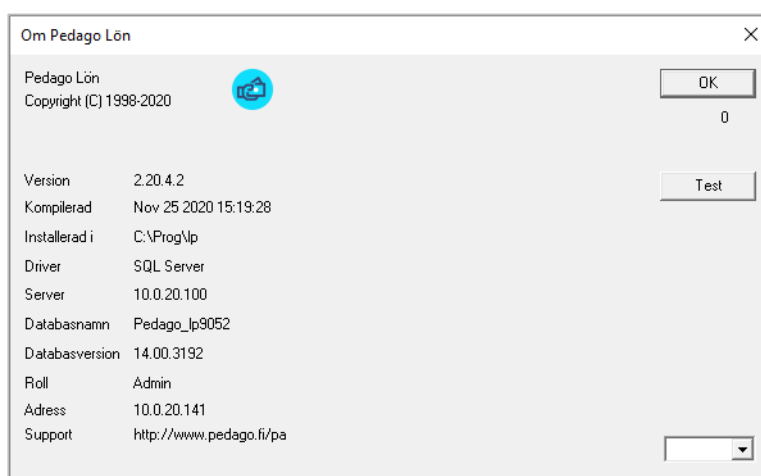http://www.pedago.fi/pa/index.html

1.4 Make sure your version of MS SQL Server is supported

You will run into problems if your SQL Server is older than 2016 SP1. We recommend that all users use a supported version, or SQL Server, 2017 or later.

> **Please note for the 2025 update!** The update runs a SQL-script to update the database schema. This script requires that the SQL Server supports the syntax "Create or Alter View" ie SQL Server 2016 service pack 1 (databasversion 13.0.4001.0) or later.

You can check what version you have in Pedago lön menu **Hjälp**, **Om Pedago lön**.

The example has **databasversion 14** ie **SQL Server 2017**. You need to update your server if the version number is below 13.0.4001.0.

Supported versions

- Databasversion 16.0.1000.6 = SQL Server 2022
- Databasversion 15.0.2000.5 = SQL Server 2019
- Databasversion 14.0.1000.169 = SQL Server 2017
- Databasversion 13.0.4001.0 = SQL Server 2016 SP1

Versions below 14.0.1000.169 need an update of SQL Server

> Generally recommended
> We suggest that you update your SQL Servers periodically to avoid problems.

1.5 Install the update
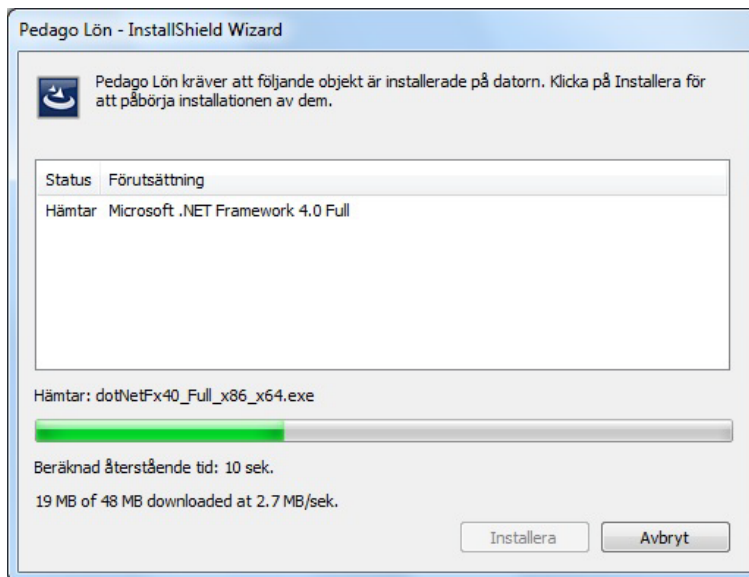
1.5.1 Run the installer "as administrator"
Right click on the downloaded file and "Run administrator".

1.5.2 Install "for all users"
If asked to install "for you" or "all users". Select the latter.

1.5.3 Installation of .Net components
This version requires Microsoft .Net version 4.7.2 . It is installed automatically if needed. This might require a restart.

1.6 Database update
You need to update the database schema after the install. This can be done in two ways. Use the one that suits you best.

- **Alternative 1**: If you can log in as a user with owner rights, then do so. The Client will then update the database as needed. This will work from any previous version. Do this for all companies.

- **Alternative 2**: If you have just read/write rights which is the normal setup, then ask your DBA to run the script `update2220.sql` in subfolder 'sql' in the program installation folder. That folder also contains scripts to update all databases at once, should you have many. The script will update from one version to the next. To update from `2.20.0.x` to `2.22.0.x`, use `update2201.sql followed by update2220.sql`.

1.7 For MS SQL Server
Use the latest version of MS SQL Native client or Microsoft® ODBC Driver xx.x for SQL Server.

1.8 Date format

We recommend that you use the international standard (ISO 8601), but the client is agnostic and will use the date format of the windows host with the limitation that it should be either `yyyy-MM-dd` or `dd.MM.yyyy`.

2 Known issues

2.1 Create new company

The user entered in "Ge rättigheter till" must exist in SQL server and cannot be 'sa'.

2.2 Online help when run from a network drive

A security setting in Windows prevents content from the network. This results in an empty window.

- This can be fixed through the registry by running `AllowHTMLHelp.reg` in "Tools" under the install directory.
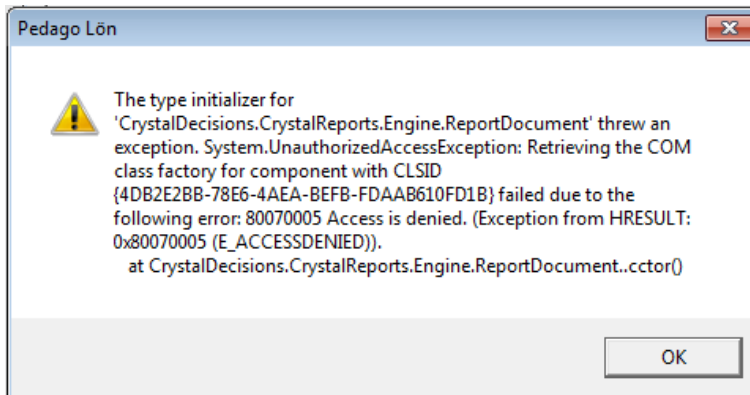
2.3 Move System database LPSYS.MDB

We recommend moving `lpsys.mdb` (contains license information) to a writable folder, ie `ProgramData\Pedago`. This will be done by the installer for new installs, beginning 2.20. To move manually you do the following:

- Create a new folder Pedago under `C:\ProgramData`
- Move lpsys.mdb here.
- Edit `lpsys.dsn` in the program folder, changing: `DBQ=lpsys.mdb to DBQ=C:\ProgramData\Pedago\lpsys.mdb`
- Give write-rights to the folder and contents `C:\ProgramFiles\Pedago`.

2.4   Crystal Reports runtime

Note! Pedago lön requires Crystal Reports runtime 21 or later (13_0_21).

The installer will automatically install the latest at time of writing, sp24.

If the runtime is outdated, then you will see the following message:

- A separate installer for the runtime can be downloaded from
  https://wiki.scn.sap.com/wiki/display/BOBJ/Crystal+Reports%2C+Developer+for+Visual+Studio+Downloads/ (23 Bit MSI).
- Unpack the zip-file and install `CRRuntime_32bit_13_0_23.msi` by clicking it.

2.4.1   Crystal Reports windows support

Note that Crystal Reports SP21 and later does not support Windows 2003!
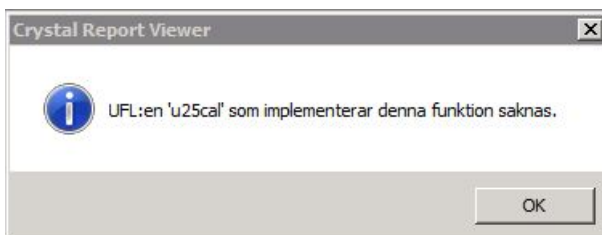
Supported versions are:
- Windows 10
- Windows 11
- Windows Server 2012
- Windows Server 2012 R2
- Windows Server 2016

2.5   Run as administrator

This is important for Windows 7/8/10.

2.6   u25cal.dll or u25C128.dll missing

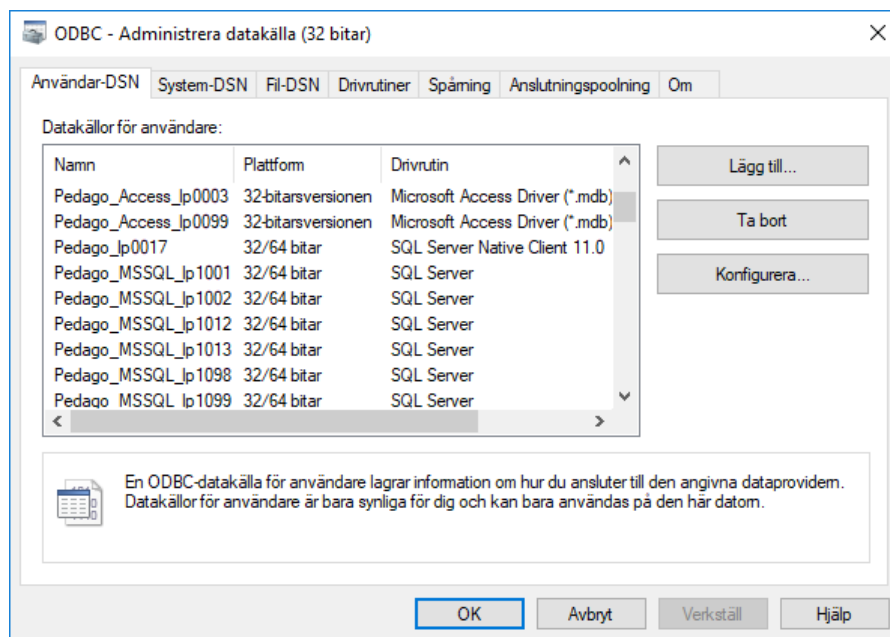This should not occur, but we document it anyway.

Files `u25cal.dll` and `u25C128.dll` are add-ons to Crystal Reports, which we have developed. They normally are located under `[Program]\SAP BusinessObjects\Crystal Reports for .NET Framework 4.0\Common\SAP BusinessObjects Enterprise XI 4.0\win32_x86`.

- You may need to move those manually.

2.7 Data sources are created automatically

The .NET-version of Crystal Reports requires a data source for each connection. They are created automatically if they do not exist:
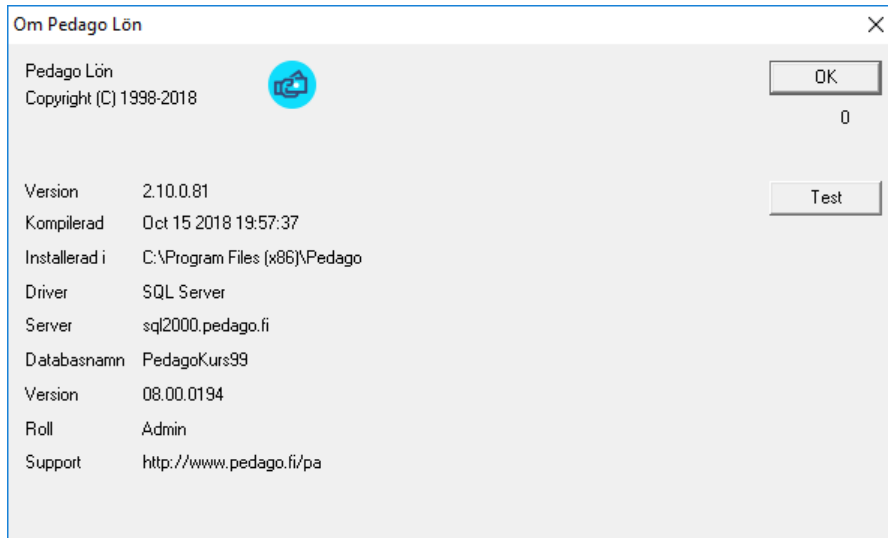

Created `Pedago_Databastyp_lp<nummer>`.

- Note that the data sources are created if needed. They contain the address of your database server, so if you move the database, they will need to be created again. Just delete them and they will be recreated.

3   Reinstallation, etc

These are things you need to check if replacing a computer running Pedago lön.
First you should document the version, database connection and database
(Hjälp, Om/Help, About).

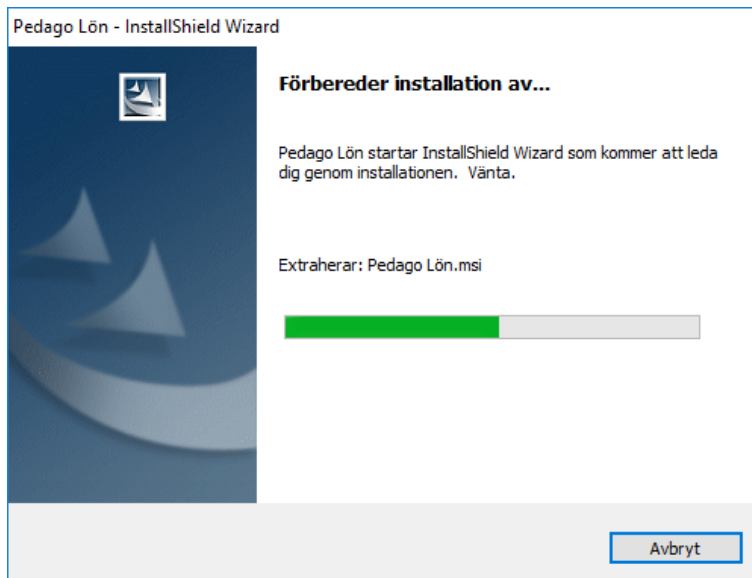- In the example above the version is `2.10.0.81`
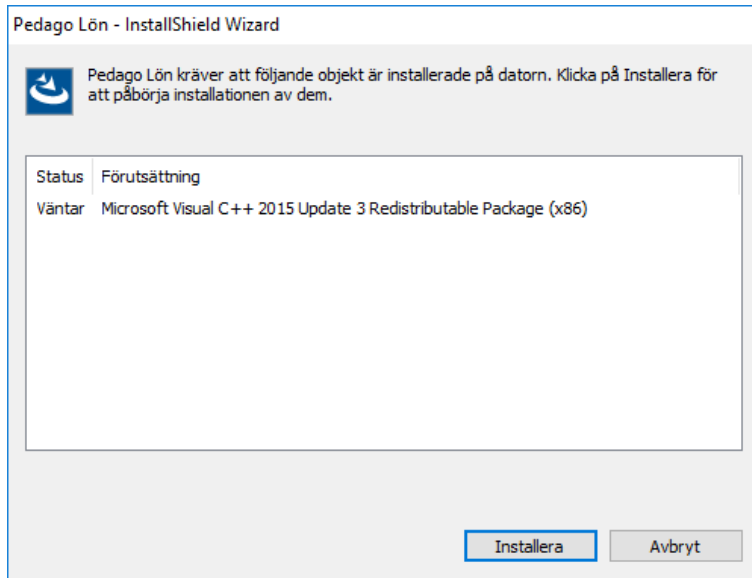
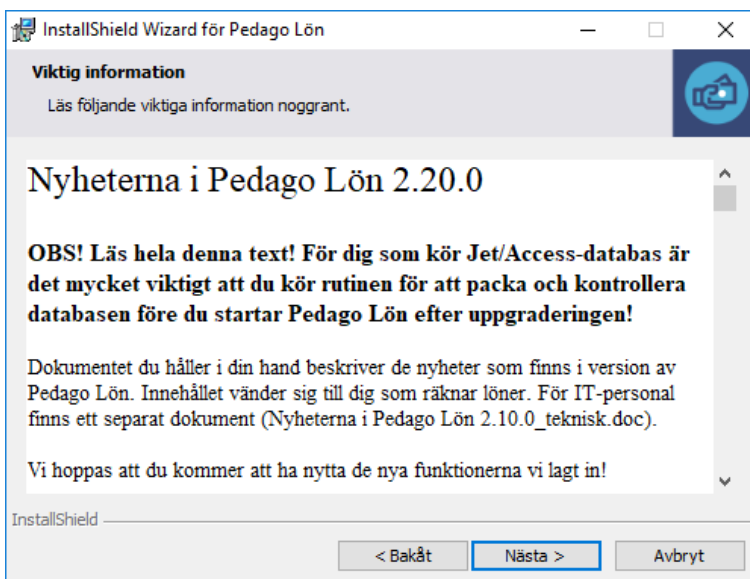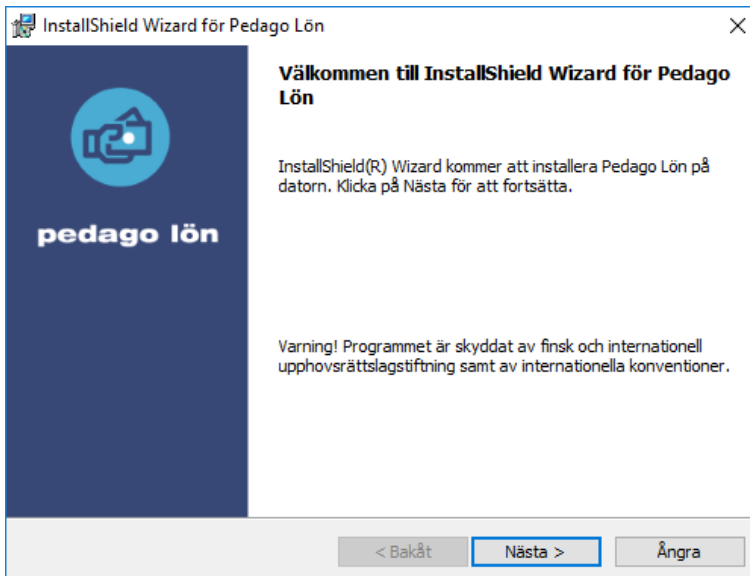## 3.1   Backup

3.1.1   Backup the folder above

- Backup registry.

  Registry contains volatile data such as window positions etc.

- Start Regedit (Start, Run regedit), navigate to till `HKCU\Software\Pedago Lön`.

- Choose File, Export.

- Put the file somewhere safe.
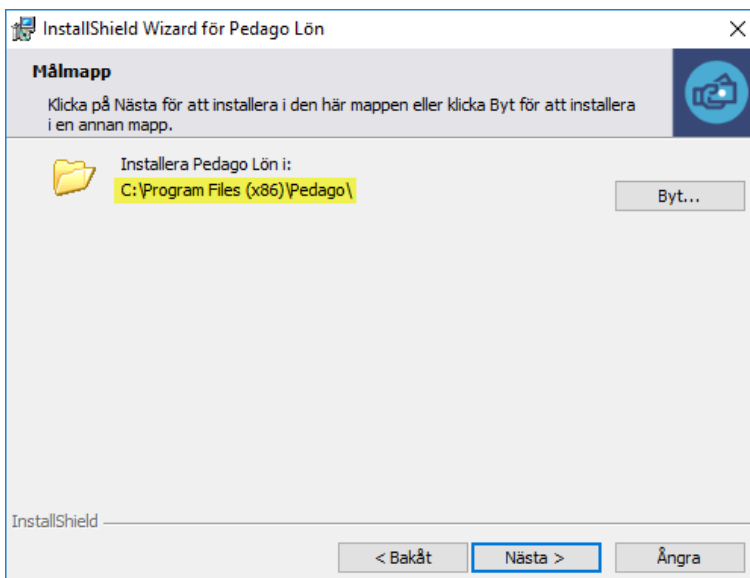
3.2   Installation

Installation of the client is the same for installations, reinstallations and up-
dates. Download the latest installer from www.pedago.fi/pa. Run installer as
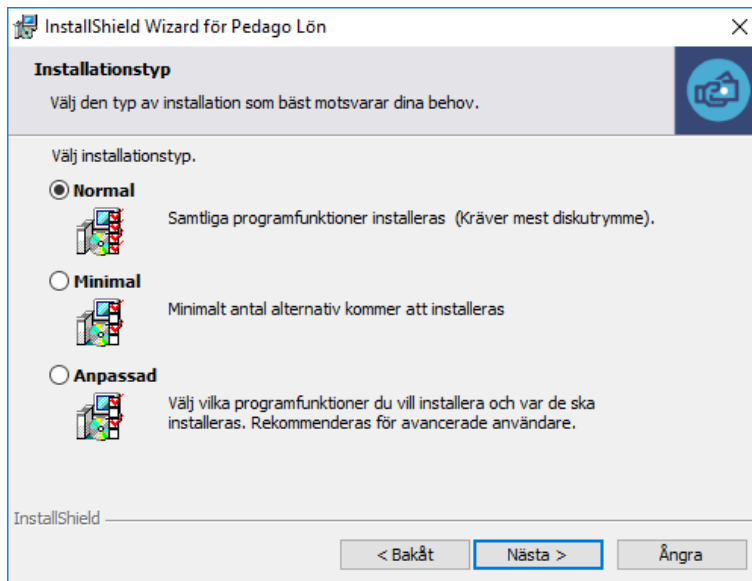administrator.
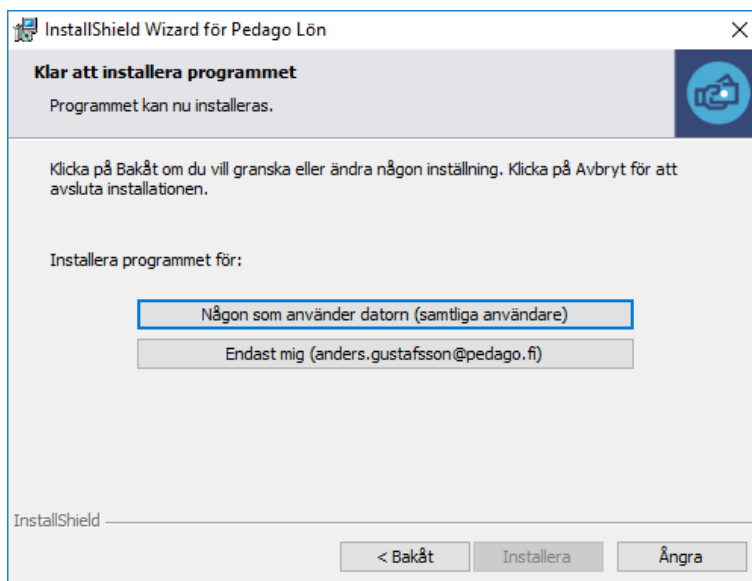
The installer will check for prerequisites:

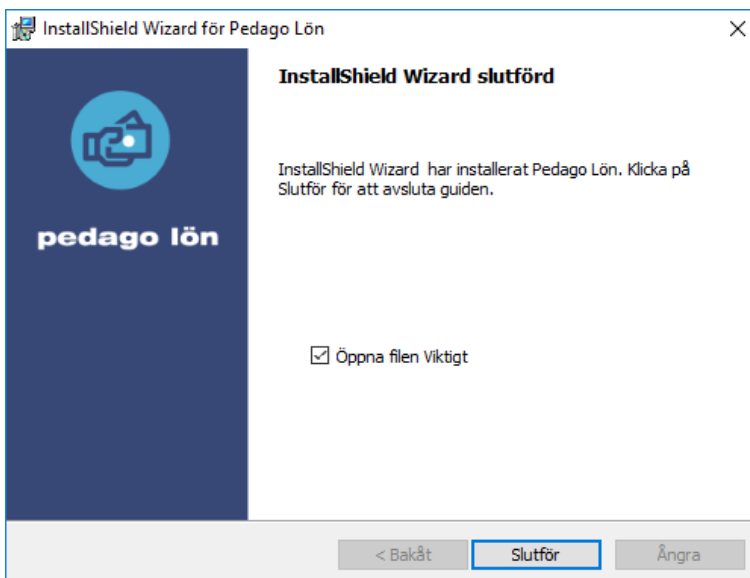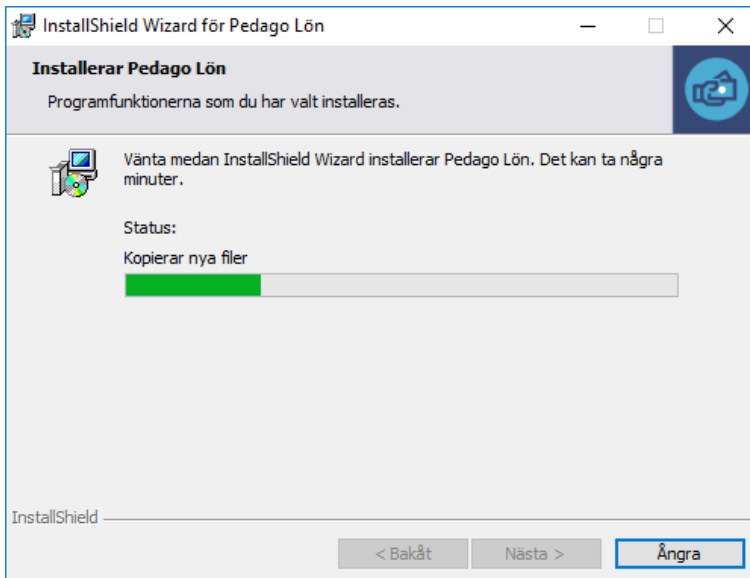You can change the installation folder if needed:

Select "Normal":

Select "samtliga användare/all users":

- Please read the file.
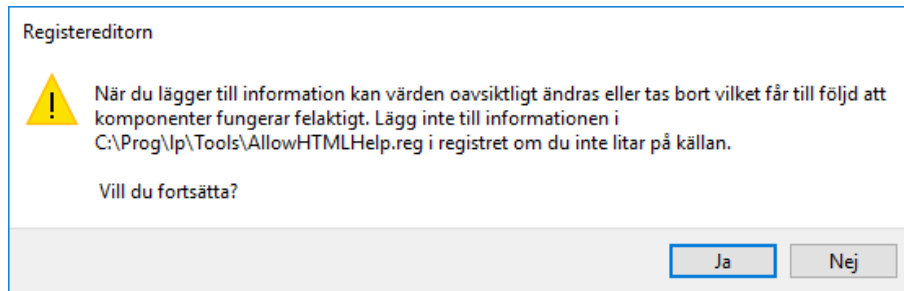- If needed give users rights to `lpsys.mdb` in `C:\ProgramFiles\Pedago`.

3.3   Restore backups

3.3.1   Restore files

In case of reinstallation you might have to restore files from <mark>the copy you created in 3.1.</mark>

3.3.2   Restore registry

- Start Explorer

- Find file from the file you created in 3.1.1 (`pedago.reg`) and double-click.

- Answer "Yes" to the question if you want to add the info to the registry.

Registereditorn

⚠️ När du lägger till information kan värden oavsiktligt ändras eller tas bort vilket får till följd att komponenter fungerar felaktigt. Lägg inte till informationen i C:\Prog\lp\Tools\AllowHTMLHelp.reg i registret om du inte litar på källan.

Vill du fortsätta?

[Ja]   [Nej]

3.3.3   Restore database connection info

Restore `lpsys.mdb`, `lpsys.dsn` and all `lpxxxx.dsn` from backup and put in installation directory (`lpxxxx.dsn` are `lp0001.dsn`, `lp0002.dsn`, etc).

3.3.4   If needed restore lp.exe

Restore lp.exe if you end up with an older version after the install.

4   Miscellaneous

4.1   Pedago lön development info

This version is built using MS Visual Studio 2017 and installed with Installshield 2024 R2.