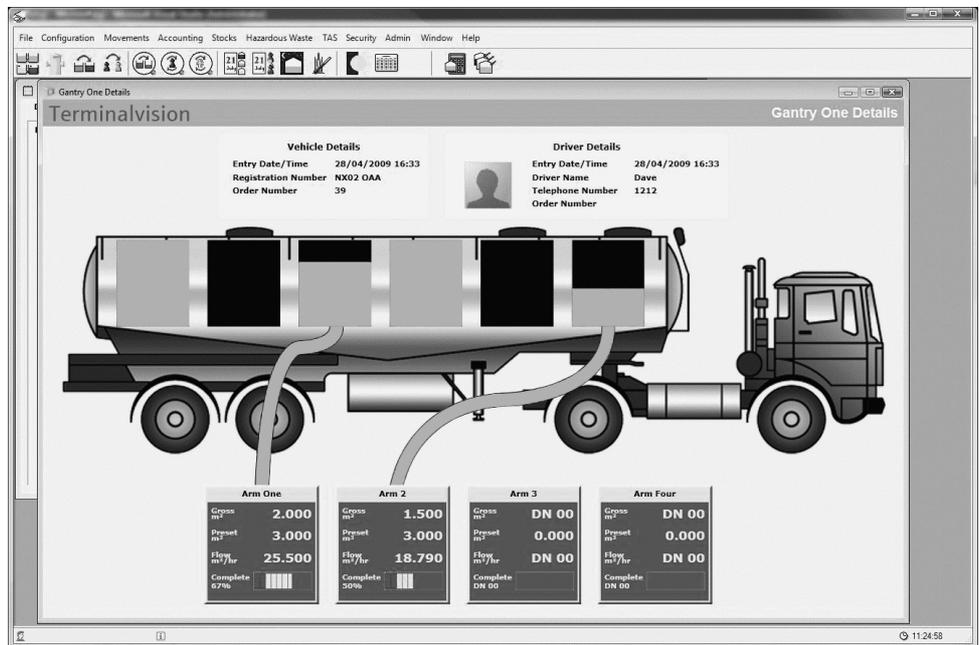
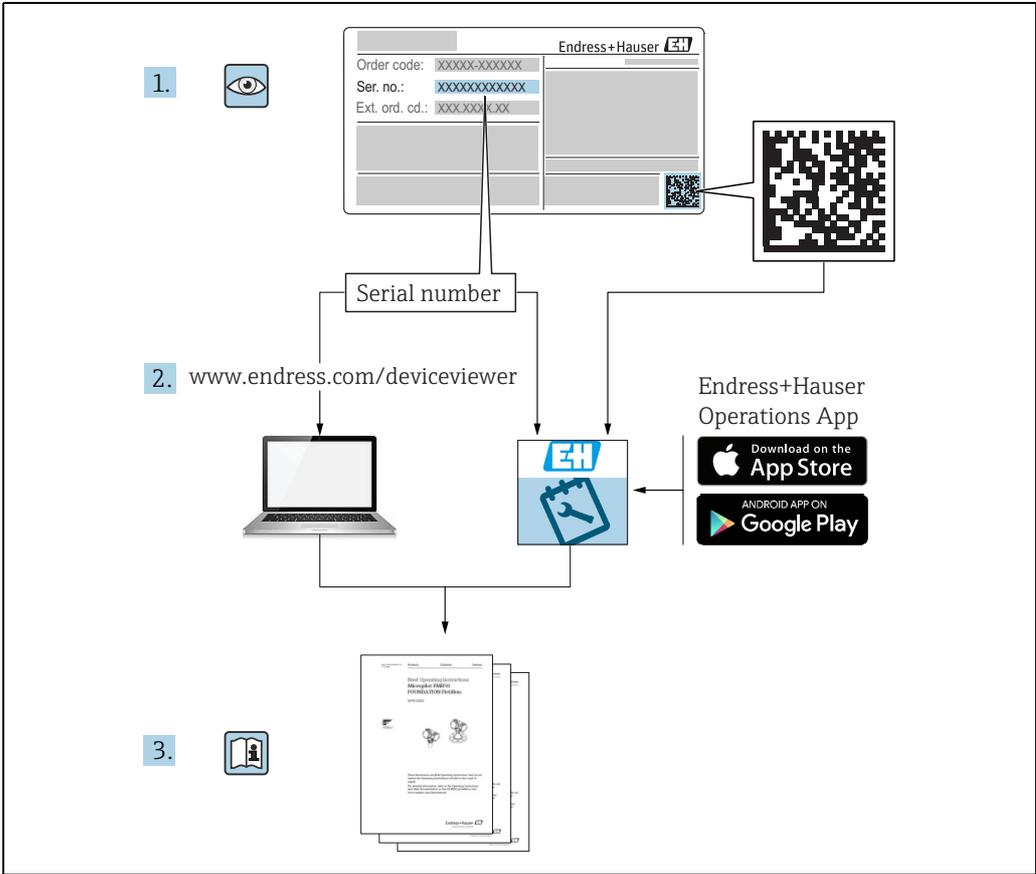


Operating Instructions Terminalvision NXS85

Terminal Management Software Installation





Make sure the document is stored in a safe place such that it is always available when working on or with the device.

To avoid danger to individuals or the facility, read the "Basic safety instructions" section carefully, as well as all other safety instructions in the document that are specific to working procedures.

The manufacturer reserves the right to modify technical data without prior notice. Your Endress+Hauser distributor will supply you with current information and updates to these Instructions.

Change history

Document version	Valid for SW version	Changes to the previous version
BA01580G/00/EN/01.15	18.0.2	Initial version
BA01580G/00/EN/02.18	18.2.3	SQL Licensing in depth explanation
BA01580G/00/EN/03.20	18.3.1	SQL Server connection details

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1 About this document

1.1 Document function

1.1.1 Symbols

Safety symbols

Symbol	Meaning
 <small>A0011189-EN</small>	DANGER! This symbol alerts you to a dangerous situation. Failure to avoid this situation will result in serious or fatal injury.
 <small>A0011190-EN</small>	WARNING! This symbol alerts you to a dangerous situation. Failure to avoid this situation can result in serious or fatal injury.
 <small>A0011191-EN</small>	CAUTION! This symbol alerts you to a dangerous situation. Failure to avoid this situation can result in minor or medium injury.
 <small>A0011192-EN</small>	NOTICE! This symbol contains information on procedures and other facts which do not result in personal injury.

Electrical symbols

Symbol	Meaning
 <small>A0011197</small>	Direct current A terminal to which DC voltage is applied or through which direct current flows.
 <small>A0011198</small>	Alternating current A terminal to which alternating voltage is applied or through which alternating current flows.
 <small>A0011200</small>	Ground connection A grounded terminal which, as far as the operator is concerned, is grounded via a grounding system.
 <small>A0011199</small>	Protective ground connection A terminal which must be connected to ground prior to establishing any other connections.

Symbols for certain types of information

Symbol	Meaning
 A0011193	Tip Indicates additional information.
 A0011195	Reference to page Refers to the corresponding page number.
1, 2, 3...	Series of steps
 A0018373	Result of a sequence of actions

Symbols in graphics

Symbol	Meaning
1, 2, 3...	Item numbers
1, 2, 3...	Series of steps
A, B, C...	Views
 A0011187	Hazardous area Indicates a hazardous area.
 A0011188	Indicates a non-hazardous location Safe area (non-hazardous area)

1.2 Documentation

-  For an overview of the scope of the associated Technical Documentation, refer to the following:
- W@M Device Viewer (www.endress.com/deviceviewer): Enter the serial number from the nameplate
 - Endress+Hauser Operations App: Enter the serial number from the nameplate or scan the 2D matrix code (QR code) on the nameplate

2 Identification

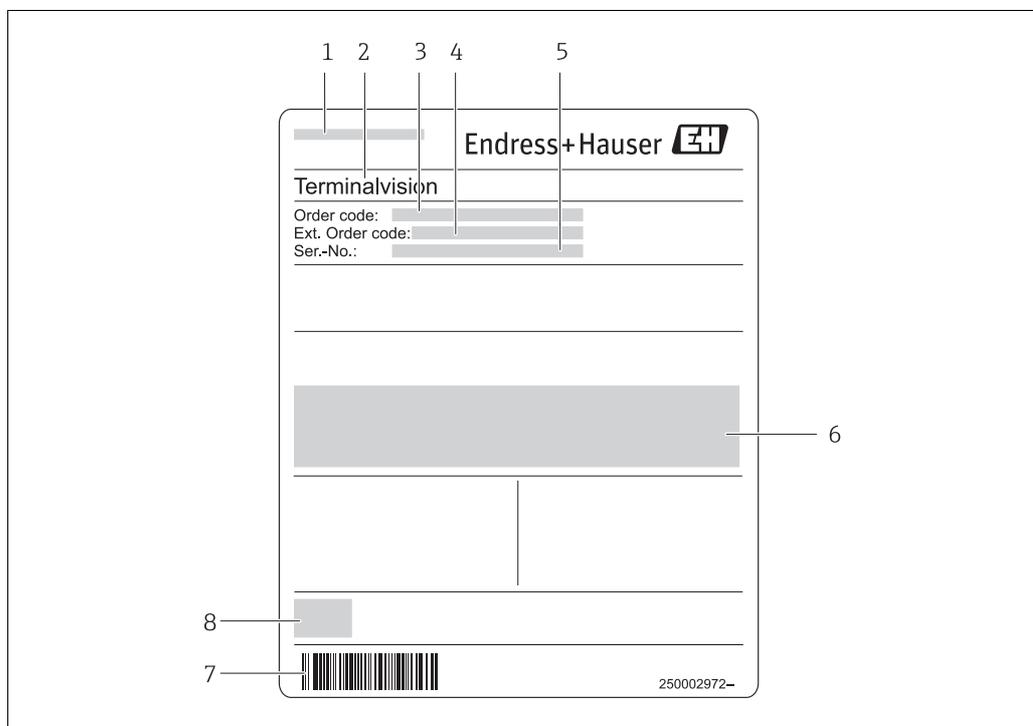
2.1 Product identification

The following options are available for identification of the software:

- Nameplate specifications
- Order code with breakdown of the software features on the delivery note
- Enter serial numbers from nameplates in W@M Device Viewer (www.endress.com/deviceviewer); all information about the software is displayed.

For an overview of the technical documentation provided, enter the serial number from the nameplates in the W@M Device Viewer (www.endress.com/deviceviewer).

2.2 Nameplate



- 1 Address of manufacturer
- 2 Product name
- 3 Order code
- 4 Extended order code (Ext. ord. cd.)
- 5 Serial number (Ser. no.)
- 6 Certificate and approval relevant data
- 7 Barcode
- 8 CE mark

A0043753

2.3 Order code and device version

-  To find out the version of your software, enter the order code indicated on the nameplate in the search screen at the following address:
www.products.endress.com/order-ident

2.4 Device documentation

The information required to retrieve the documentation can be found on the nameplate of the device.

-  Technical documentation can also be downloaded from the Download Area of the Endress+Hauser web site: www.endress.com → Download. However this technical documentation applies to a particular instrument family and is not assigned to a specific device.

2.4.1 W@M Device Viewer

1. Launch the W@M Device Viewer: www.endress.com/deviceviewer
2. Enter the serial number (Ser. no.) of the device: see nameplate.
↳ All the associated documentation is displayed.

2.4.2 Endress+Hauser Operations App

-  The **Endress+Hauser Operations App** is available both for android smart phones (Google Play Store) and for iPhones and iPads (App Store).

Via the serial number:

1. Launch the **Endress+Hauser Operations App**.
2. Enter the serial number (Ser. no.) of the device: see nameplate.
↳ All the associated documentation is displayed.

2.5 Registered trademarks

Microsoft[®], Windows[®] and Internet Explorer[®]
Registered trademarks of the Microsoft Corporation

Modbus[™]
Modbus is a registered trademark of Schneider Electric USA, Inc.

Java[®]
Registered trademark of Sun Microsystems, Inc.

Mozilla[®] Firefox[®]
Registered trademark of the Mozilla Foundation

Android[®] and Google Play[®] are registered trademarks of Google Inc.

iPhone[®] and iPad[®] are trademarks of Apple[®] Inc., registered in the U.S. and other countries.

3 Basic safety instructions

3.1 Requirements for the personnel

The personnel for installation, commissioning, diagnostics and maintenance must fulfill the following requirements:

- Trained, qualified specialists: must have a relevant qualification for this specific function and task
- Are authorized by the plant owner/operator
- Are familiar with federal/national regulations
- Before beginning work, the specialist staff must have read and understood the instructions in the Operating Instructions and supplementary documentation as well as in the certificates (depending on the application)
- Following instructions and basic conditions

The operating personnel must fulfill the following requirements:

- Being instructed and authorized according to the requirements of the task by the facility's owner operator
- Following the instructions in these Operating Instructions

3.2 Intended use

3.2.1 Application

Terminalvision is a terminal management and loading monitoring software designed to meet the requirements of depots and terminals. Interfacing to most vendor devices used for access control, batch controllers, flow computers, and weighbridges, Terminalvision provides a secure and controlled loading and off-loading procedure for all movement types. Terminalvision also enables site control and overview, allowing operators to access details of all gantries, loading arms, vehicles, drivers, and products in use on site.

Terminalvision can be provided as a simple standalone station for small depots, or be configured on larger sites as a full Client/Server system where multiple operator stations are required. Printers can be distributed throughout the system, for example placed within the terminal control room and control rooms for internal reporting, as well as at the exit gate for the automatic printing of BOLs.

3.3 IT security

A warranty on our part can only be provided if the software application is installed and used as specified in the operating manual. The software application contains safety mechanisms to protect it against inadvertent changes to the software settings.

IT security measures that are in accordance with the operator's safety and security standards and designed to additionally protect the software application and the transfer of data must be implemented by the operator.

4 Installation General Guidelines

 For this installation it is necessary that Microsoft Windows is installed on the C: drive of the PC. If it is not, do not attempt the installation and contact Endress+Hauser.

The suite of application modules making up the terminal automation system are generally provided on CD.

The installation process is relatively simple and straightforward following the same procedures as almost all other Windows applications.

Insert the CD into the CD ROM drive.

The system should normally auto start and begin running the set-up procedure.

Follow the set up prompts and enter the relevant data when and where requested.

When the installation is finally complete remove the CD and any other media from drives.

You will normally be requested to perform a system reset before the system can be used.

On very complex systems, particularly large multi-user client server systems the installation process may be more complex requiring a separate installation for the database and other operating system components.

Furthermore, systems requiring remote access via a Remote Access Connection and/or providing a Web server will require configuration and set-up by engineers experienced in Windows Networking and related technologies.

5 Software Installation

 Refer to the release notes for your version of the software before proceeding with the installation.

This procedure assumes that you are installing onto a PC without a previous version of the software. If you are intending to perform an upgrade, make a backup of that system's databases and uninstall it first.

5.1 Logging onto Windows

Log onto to your computer using an account with administrative privileges.

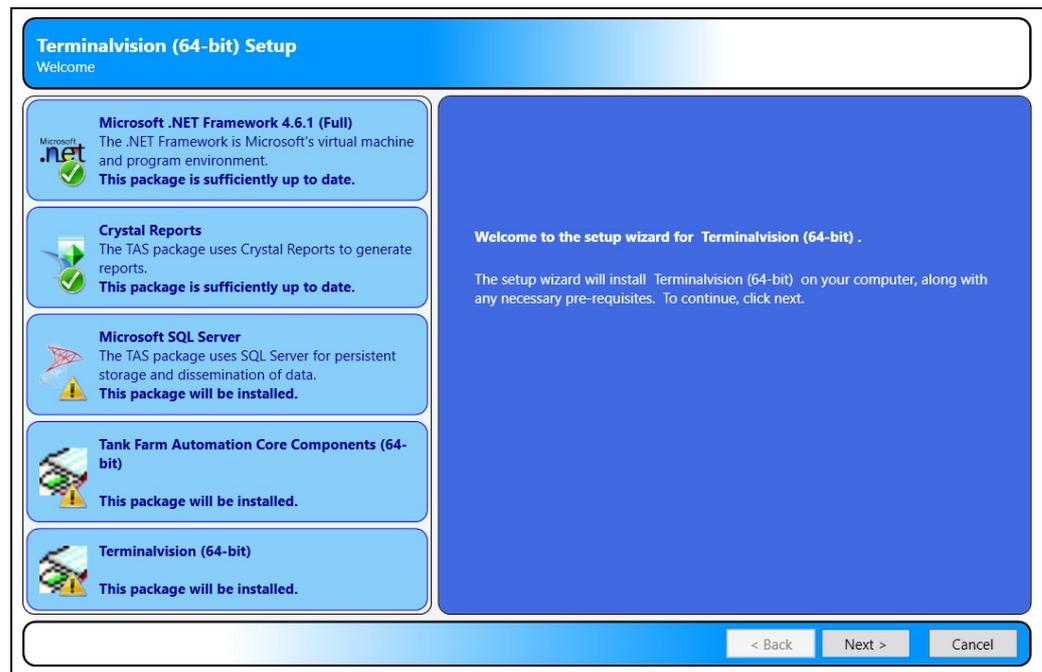
5.2 Inserting the CD

Insert the set-up CD into your CD ROM drive.

If you have **Auto Play** enabled then the installation will start automatically. If you don't, browse to the CD folder from My Computer and double click the Setup.exe.

5.3 Setup Welcome

Within a few seconds the main part of the application installation is started with the display of the following screen.



Terminalvision_Installation_EN_030

Click **Next** to continue with the installation or **Cancel** to terminate the installation procedure.

5.4 Installing the Pre-requisites

The first stage of the installation process is to check for and if necessary install the pre-requisite Windows components on your computer. The pre-requisites installed are:

- Microsoft.NET Framework 4.6.1 (Full)
- SAP Crystal Reports

- Microsoft SQL Server (2012/2016)
- OPC Core Components

If your computer already has these packages installed on it, the installer will detect them and check the correct versions are present, and only perform the installation if necessary.

The icon displayed indicates whether the component is required or not.

Symbol	Meaning
 Terminalvision_Installation_EN_031	The package is sufficiently up to date, and does not require installing.
 Terminalvision_Installation_EN_032	The package is either missing or is of an earlier version than is needed. The package will be installed.
 Terminalvision_Installation_EN_033	The installed package is incompatible with the application software, and the installation will not proceed.
 Terminalvision_Installation_EN_034	The package is an optional requirement. See section on SQL Server (→ 11).

There are no user configurable options for the installation of these Windows components, meaning that they will all occupy space on the C: drive of your computer.

 If your Windows installation is not located on the C: drive, do not start the installation.

If the installation of any of the pre-requisites requires Windows to restart, then the pre-requisite installer will restart the computer before starting to install the application.

5.4.1 Microsoft SQL Server

The need to install Microsoft SQL Server is determined by the type of installation you are going to perform. Every terminal automation server system must have SQL Server installed on it.

The bundled Microsoft SQL Server Express is only recommended for small single server systems, if a redundant or large system is required then you must install full Microsoft SQL Server (2012/2016) prior to the terminal automation install.

 If full SQL server is installed it must be configured to use the SQL_Latin1_General_CP1_CI_AS collation.

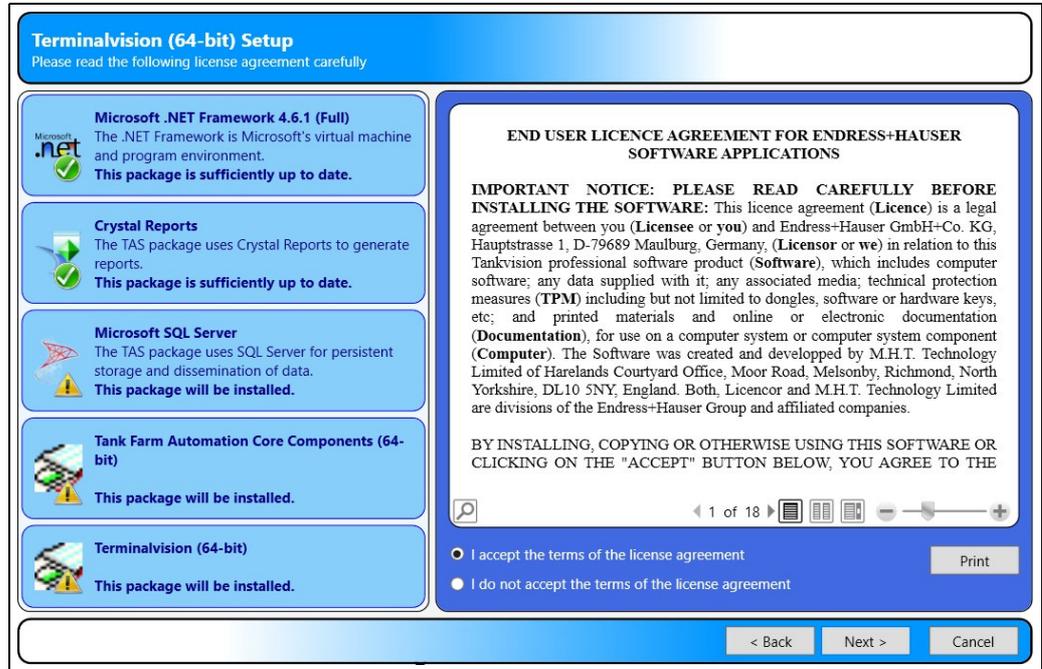
5.5 License Agreement

This screen presents the license agreement.

If you agree to the terms of the license agreement select **I accept the terms of the license agreement** to continue.

If you do not agree to the terms of the license agreement the installer will guide you to exiting the installation.

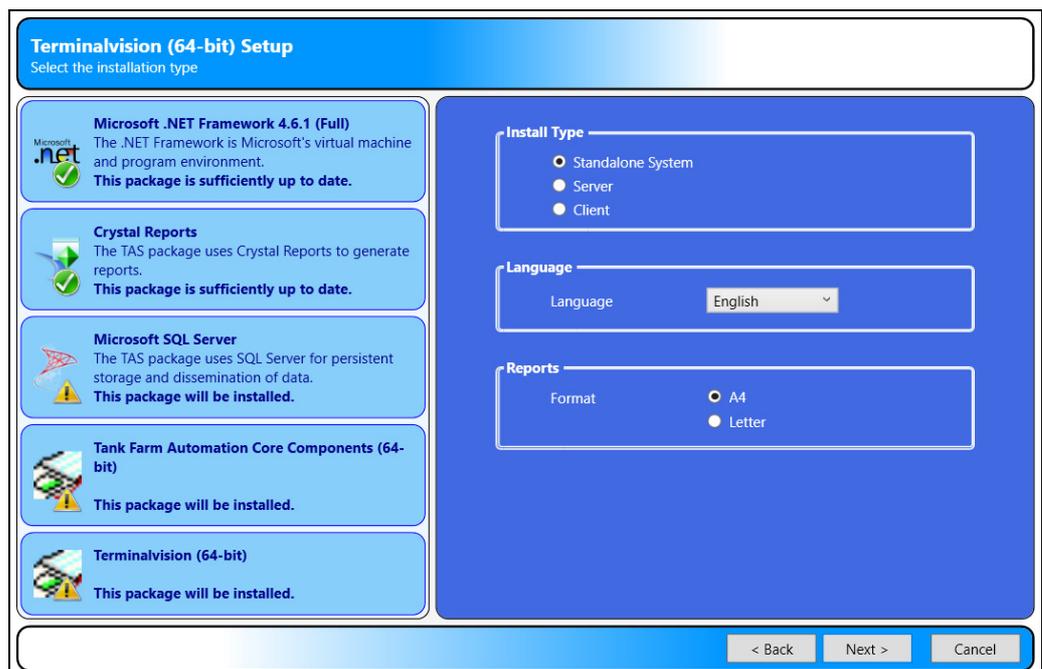
Click **Next** to continue.



Terminalvision_Installation_EN_035

5.6 Installation Type

This screen allows you to determine which parts of the system are to be installed on your computer.



Terminalvision_Installation_EN_036

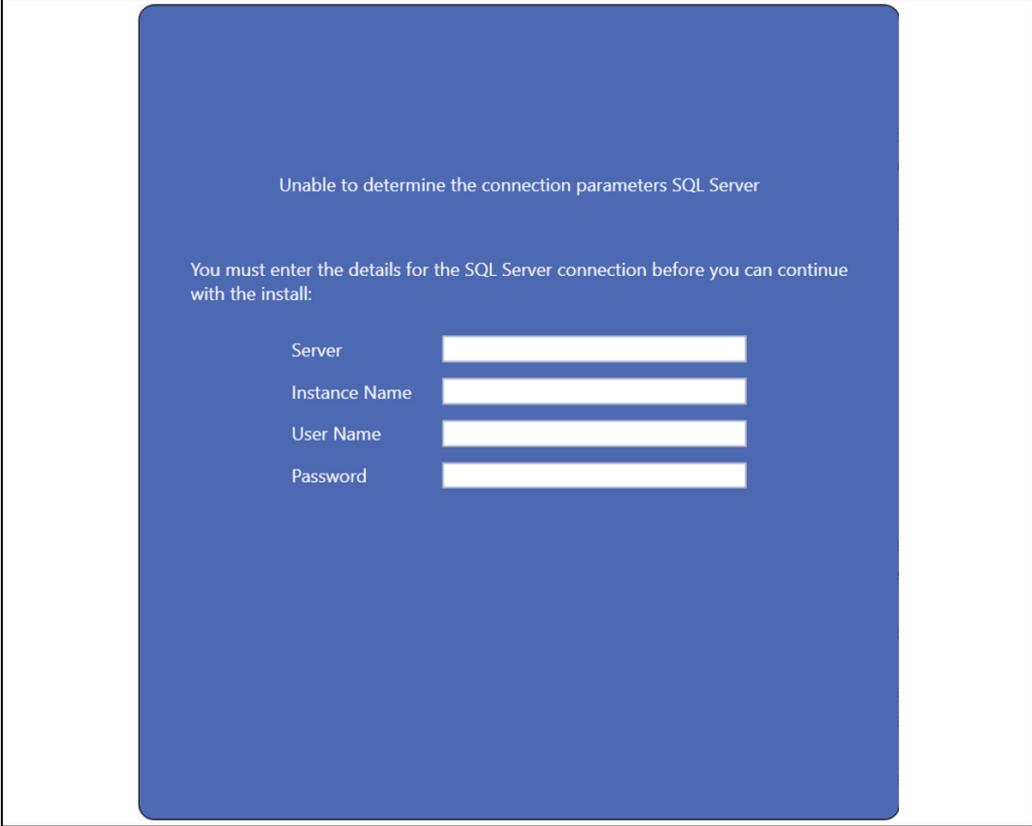
Installation type options are:

Standalone System	Installs both the GUI and the server components.
Server	Installs just the underlying server components.
Client	Installs just the graphical user interface (GUI) components.

Additionally, you can select the language that will be presented in the terminal automation user interface and the paper size used for printed reports. Press the **Next** button to continue with the installation.

5.7 SQL server connection details

The installer will attempt to connect to SQL server using default settings. If the connection is unsuccessful a database connection details screen will be displayed. An example is shown in the figure below.



Unable to determine the connection parameters SQL Server

You must enter the details for the SQL Server connection before you can continue with the install:

Server

Instance Name

User Name

Password

TeVi_NXS85_SQL_Server_conn

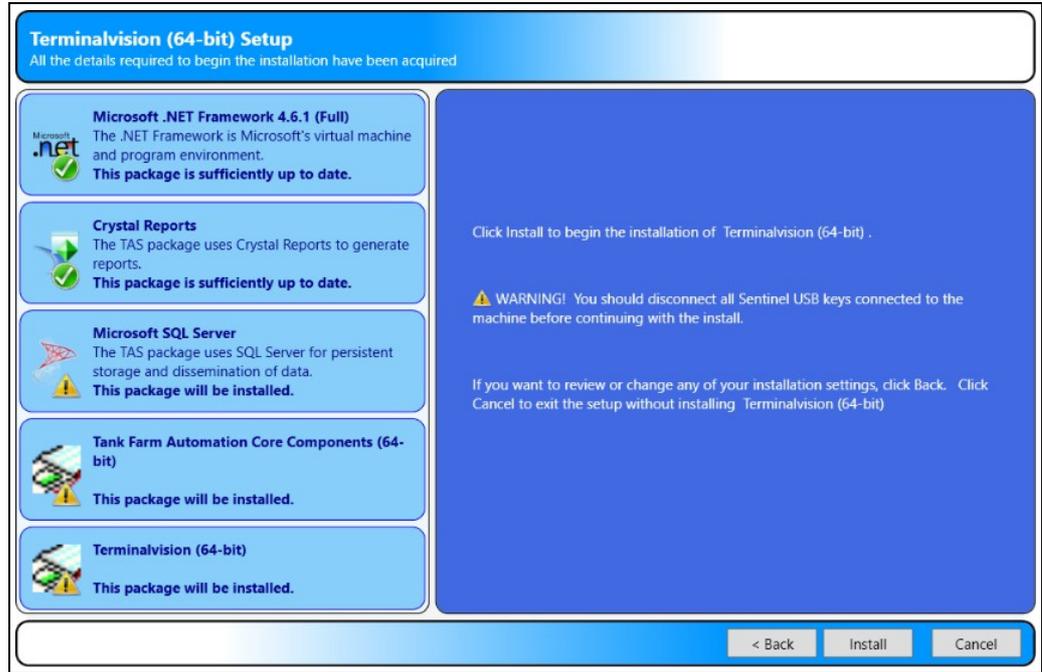
Enter **all** the details required for the connection to your SQL server installation.



If your SQL server installation is the default instance, leave the **Instance Name** field blank. Otherwise enter the name of the instance.

5.8 File Copying

The installation is now ready to continue click **Install** to start the file copying process.



Terminalvision_Installation_EN_037

During this installation phase the following message will appear:

You should disconnect all Sentinel USB keys connected to the machine before continuing with the install.

The next screen displays a progress bar indicating the progress of the file copying and installation. The contents will change illustrating system features.



Terminalvision_Installation_EN_038

Press the **Cancel** button at any time during this process to abort the installation.

5.9 Server Configuration

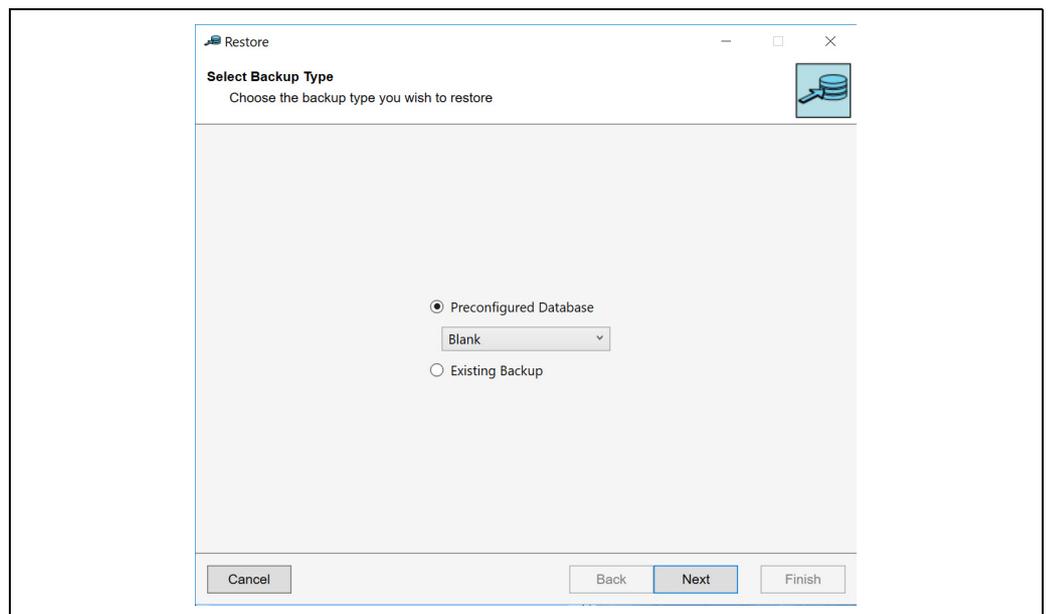
5.9.1 Database Installation

You must now specify what database to restore on your computer (see figure below), the choice will affect how much configuration you need to do after the installation has completed.

By default the installation includes two sets of databases.

- The **Blank** database which, as its name suggests, contains no terminal configuration data and is suitable for starting a fresh site.

The third/fourth choice of **Existing Backup** is for upgrade of 18.0.n or recovery of 18.1.n systems only.



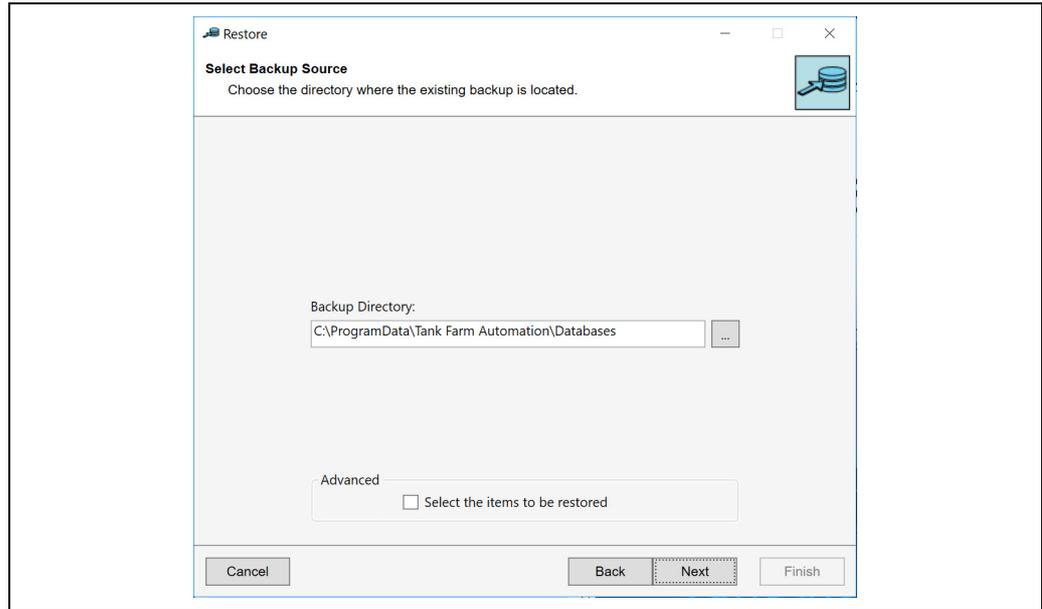
Terminalvision_Installation_EN_039

If you select **Existing Backup** you will be asked to nominate the folder from which the database backups to be used to create the databases are drawn. Click the **Next** button to continue.

5.9.2 Select Backup Files

If you selected to install an **Existing Backup**, then you will need to tell the setup program where to find the backup files to be upgraded or restored.

The following screen is an example:

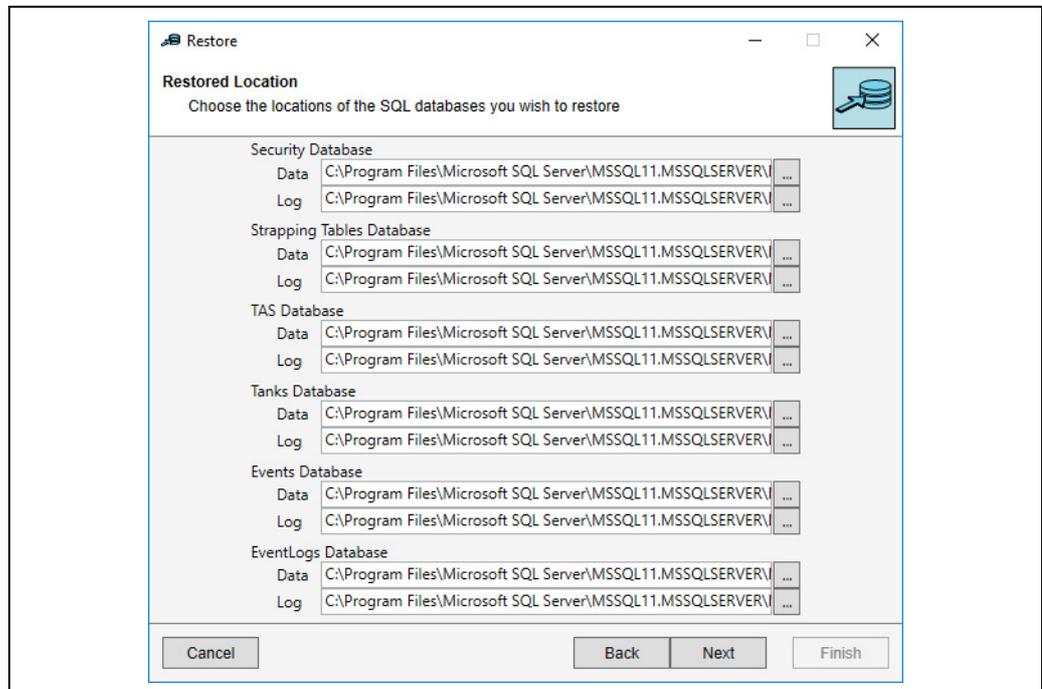


Terminalvision_Installation_EN_040

Use the [...] button to browse for backup folders. If blank examples of databases are required, for the Events database for example, look in a folder called Databases in the target software folder. Click **Next** to continue with the installation.

5.9.3 Database Location

This screen allows you to specify where the databases you have selected to install will be restored. By default they will be restored to the SQL Server default database folder. You may alter the locations of these files if you wish.



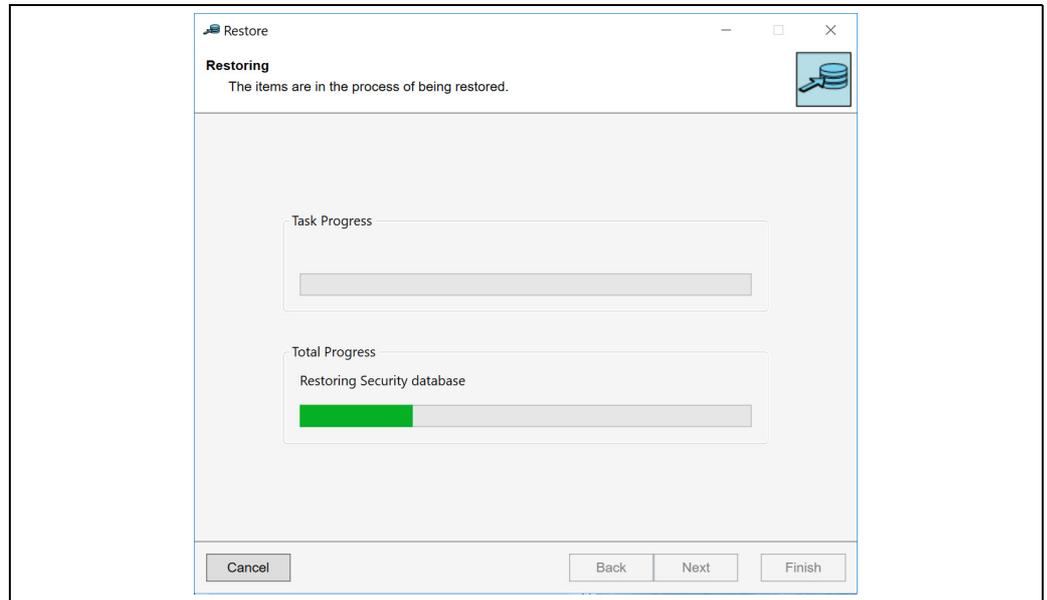
Terminalvision_Installation_EN_041



Database restore and database backup can be used later by selecting the backup and restore utility from the Windows start menu. This effectively means the databases can be moved later!

5.9.4 Database Registration

The system will now restore the databases required for your system. When the processing has completed you will see the following screen.



Terminalvision_Installation_EN_042

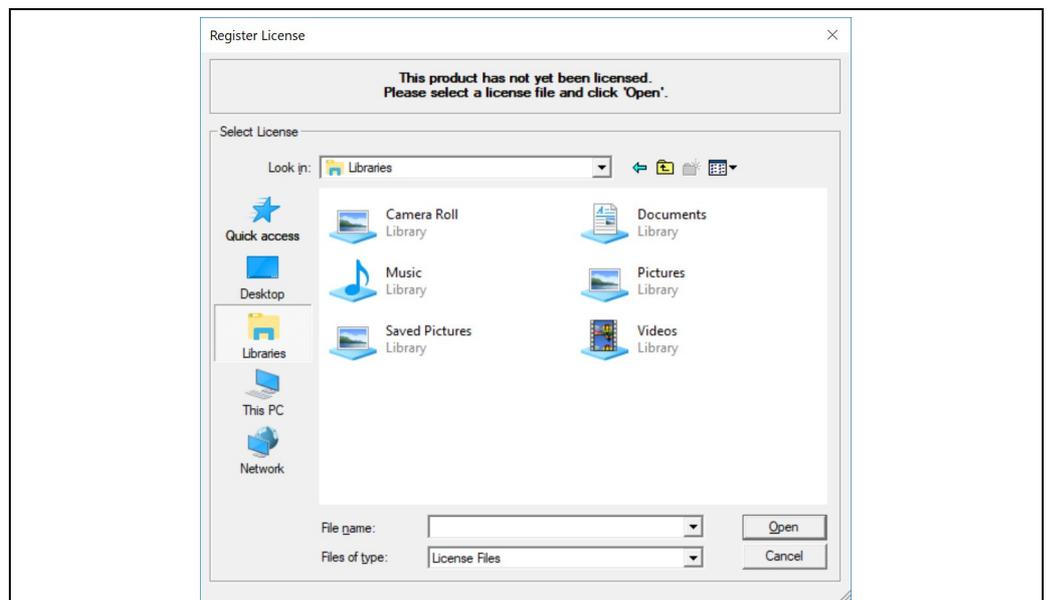
Click the **Finish** button to continue.

5.9.5 Enter the License

Next you are prompted to enter the terminal automation server license if this installation was a **Server and Client** or **Server** type.

The license.xml file is generally provided on a CD but can be copied to any convenient location. The file contains encrypted information that will make the file invalid if it is edited. Insert the License Hardware Key provided into one of your computer's USB ports and then browse to locate the license.xml file that contains your license details as shown in figure below.

The license file will not work unless the Hardware Key is present.

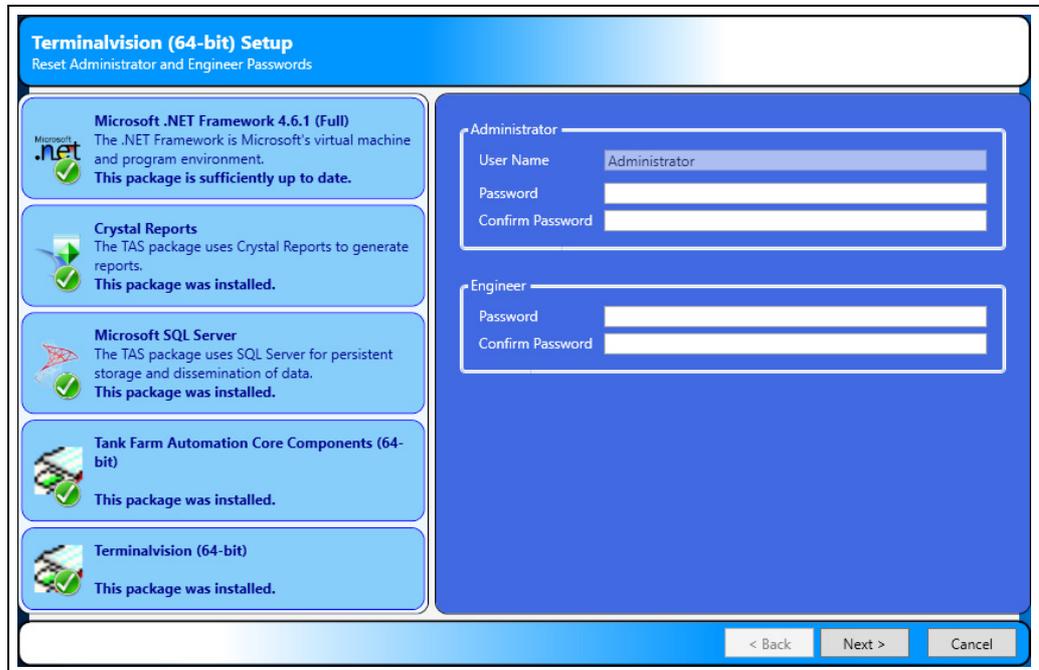


Terminalvision_Installation_EN_043

The license can be read from a shared network drive, a USB flash drive or a floppy disk. Click **Open** to continue.

5.9.6 Set Administrator and Engineer Passwords

After restoring the database you must now provide a suitable password for the terminal automation administrator account. If you previously chose to install a pre-configured database, then the administrator account password will be reset by the value you enter here.

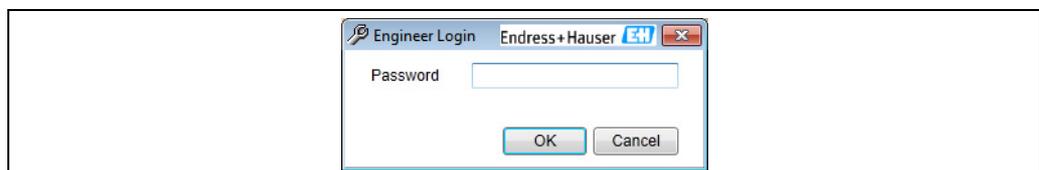


Terminalvision_Installation_EN_044

Click **Next** to continue.

The Engineer Login feature is a response to the problems caused when the Administrator password to a system is lost or the account is deleted.

The engineer login differs from the other "normal" logins in that it can't be removed and you use a special login application to utilise it. On the Windows Start Menu you will find an entry **Engineer Login**. When you start this application, you will first be prompted for your Engineer password.



Terminalvision_Installation_EN_020

When you login through this window a second window appears, which you should leave open all the time you wish to remain logged in as the Engineer.



Terminalvision_Installation_EN_021

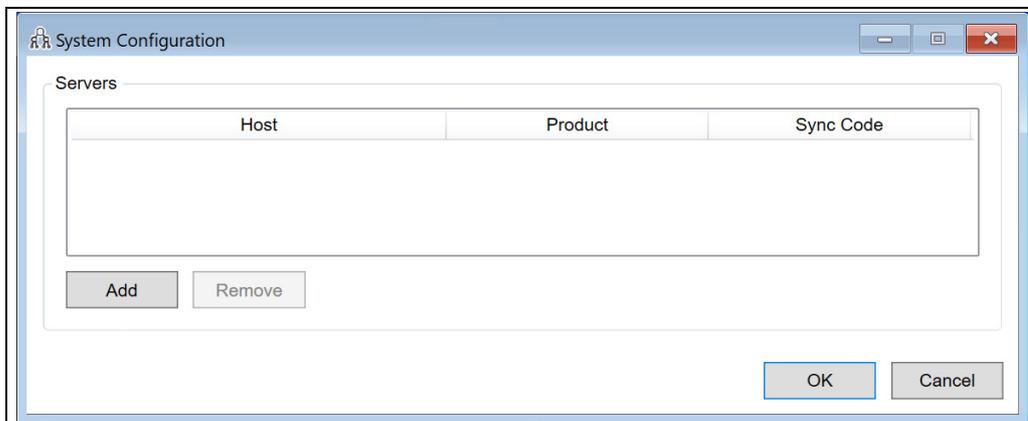
While this window is open the security system is temporarily disabled so that you can reset the administrator account password, create new login accounts or change aspects of the system configuration. Exiting the application returns the system back to an unlogged in state.

Running this application will log out the current user and log in the Engineer. The Engineer always has full access rights to everything.

5.10 Client Configuration

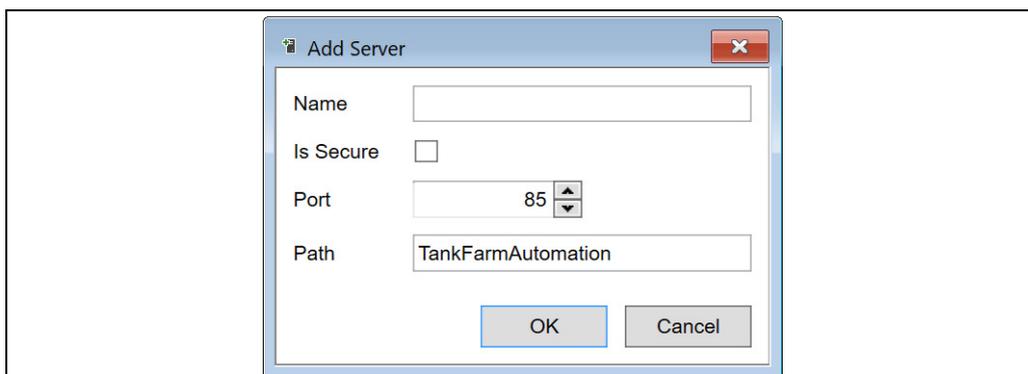
If you selected a client-only install you will be presented with the **System Configuration** application in which to configure the connection to the server.

Upon clicking **Add** the application will automatically discover running systems on your network, select the applicable systems for your configuration. You can add multiple servers in the case of a redundant configuration.



Terminalvision_Installation_EN_045

If your server is not discovered or is not running, you can configure a manual entry.

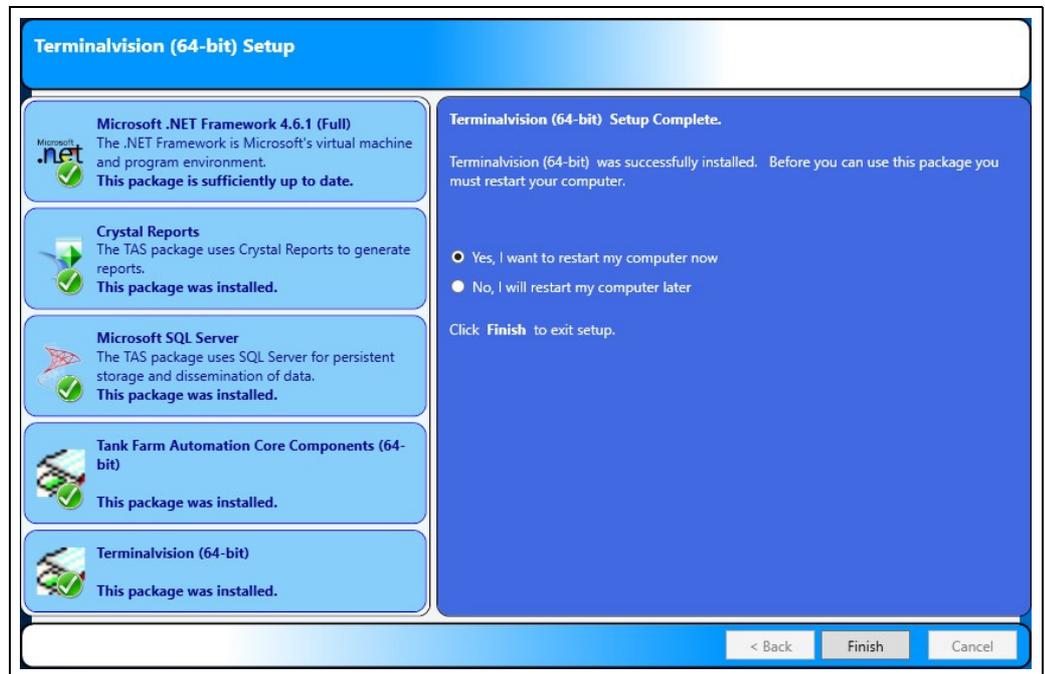


Terminalvision_Installation_EN_046

In most cases only the **Name** needs to be configured. The options **Is Secure**, **Port** and **Path** are for advanced configuration of the Olympus Service and can be left as preset.

5.11 Finishing the installation

The installer will now complete the installation by installing some Windows services, which should take around 30 seconds and finally present you with a completion message as shown in figure below.



Terminalvision_Installation_EN_047

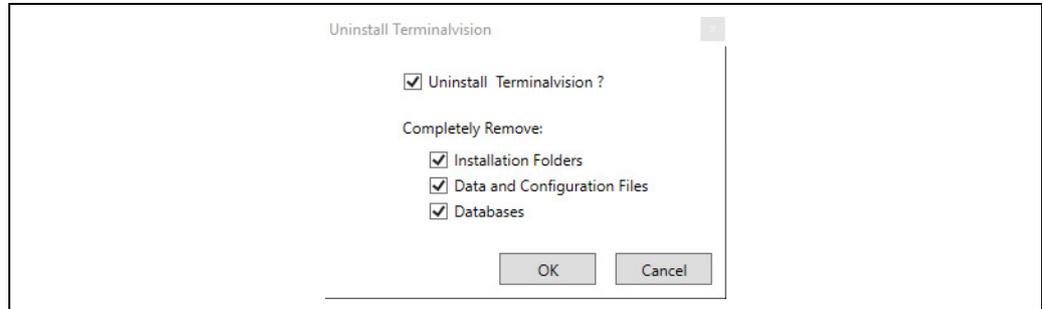
Press the **Finish** button to continue with a reboot of your computer to complete the installation process.

6 Uninstall

The system is uninstalled via the standard Microsoft **Programs and Features** section applicable for your version of Windows.

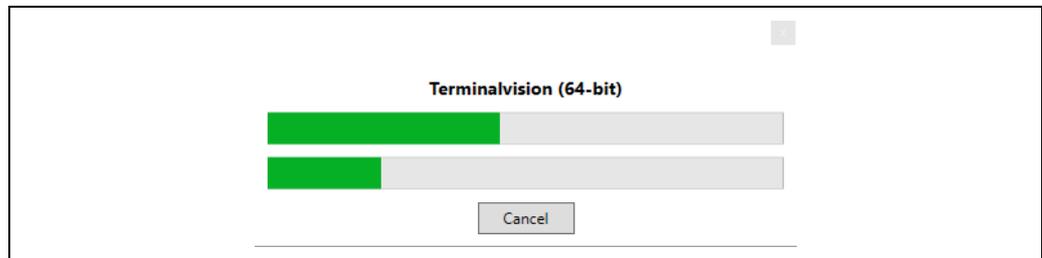
Make sure to take copies of any backups or files you may wish to restore later.

Select the parts of the product you would like to uninstall:



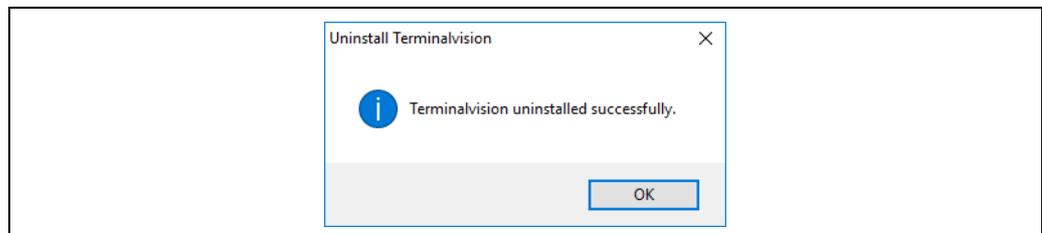
Terminalvision_Installation_EN_048

Select **Next**. The progress bar will indicate the uninstallation process.



Terminalvision_Installation_EN_049

Once uninstall is complete, you will see the finish dialog.



Terminalvision_Installation_EN_050

If the installed pre-requisites are to be removed, they must be uninstalled manually:

- Microsoft SQL Server
- OPC Core Components
- SAP Crystal Reports

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