



# Novapoint 21

## Installation Guide



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# Before you install

## About the installation

The following steps is required to run Novapoint on a client computer

1. Install Novapoint
2. Install License Hardware Lock (USB HASH) *or* install Network License Manager on a license server. See *How to License Novapoint* for details.
3. Retrieve and install the License Key file (.LIC) locally or get a license server name to use with Novapoint. See *How to License Novapoint* for details.

## Upgrade from earlier versions

Trimble Novapoint 21.05 is a new product, not an upgraded variant of earlier versions.

You may have other versions of Novapoint installed on the same client computer, but they shall never run at the same time. Such Side By Side installations makes it easier to gradually go from one version of Novapoint to the next version of Novapoint.

## System requirements

Before you install Novapoint on a stand-alone computer, make sure that your computer meets the minimum requirements. See the following table for hardware and software requirements. See also Autodesk requirements if you use AutoCAD with Novapoint.

Hardware	Requirement	Notes
Processor	Intel Core i7 (minimum)	See also Autodesk requirements
RAM	8 GB (minimum)	32GB is recommended. The amount of memory depends on the size for the Novapoint models in use.
Video	OpenGL-compatible professional 3D graphics card  NVIDIA Quadro Graphics (Recommended)	OpenGL card is required to run Novapoint. The OpenGL driver that comes with the 3D graphics card must have the following: <ul style="list-style-type: none"> <li>• Full support of OpenGL. NVIDIA graphics drivers are recommended.</li> </ul> An OpenGL Installable Client Driver (ICD). The graphics card must have an ICD in its OpenGL driver software  Novapoint is tested with NVIDIA Quadro Graphics cards
Hard disk	Installation 2,1 GB	
Pointing device	Mouse, trackball or other device	
USB port	USB 1.2	For license hardware lock
Optional hardware	Printer or plotter Access to an internet connection Network interface card	
Operating System	<i>64 bit editions:</i> Microsoft Windows 8.1 Microsoft Windows 8.1 Pro Microsoft Windows 8.1 Enterprise Microsoft Windows 10 Pro Microsoft Windows 10 Enterprise	Novapoint may also be run on other Windows platforms, although full functionality cannot be guaranteed.
Autodesk	<i>64 bit editions:</i> AutoCAD 2018 AutoCAD Map 3D 2018 AutoCAD Civil 3D 2018	Other AutoCAD 2018 products shall also normally work. Listed is the most common one and those we use in testing Novapoint.



# Install Trimble Novapoint

## Prepare for installation

You can take several preparatory steps to ensure that your installation of Novapoint is successful.

1. Make sure you have Administrator privileges to the local machine where you want to install Novapoint. You do not need to have domain administrator permissions.
2. Update the local machine with the latest Windows updates.
3. Make sure all Windows updates are successfully (not failed).
4. Always do a restart before you do a major install. Windows may wait for a restart to finish previous installations and can block new installations.
5. Optional install Autodesk application to use with Novapoint and make sure this runs correct.
6. Close all running applications.
7. Downloaded the install image (ZIP-file) and extract all files and folders (unzip) for the installation to a local folder on your local machine.

## Install Novapoint

To install Novapoint on a stand-alone computer

1. Run Setup.exe from the unzipped folder for the installation.
2. Select Install from the "Install Products" page.
3. On the Welcome to the *InstallShield for Trimble Novapoint* page, click *Next*.
4. Review the Novapoint software license agreement. You must accept this agreement to complete the installation. To accept, click *I accept the terms in the license agreement*, and then click *Next*.
5. On the *Destination Folder* page choose *Next* to install to the default installation folder or choose *Change* to select other installation location.
6. On the *Ready to Install the Program* page, click *Install* to begin the installation. If you want to review or change any of your installation settings, click *Back*. Click *Cancel* to exit the wizard.
7. Wait until the installation is completed.
8. When the installation is completed, the *InstallShield Wizard Completed* is displayed.
9. If the computer have a connection to the internet, check *Yes, check for program updates (recommended)*.
10. Click *Finish* to close the *Novapoint InstallShield Wizard*.
11. Update the PC with the latest Windows updates and restart the PC.
12. Install a license for Novapoint. See *How to license Novapoint* on the *Licensing Novapoint* page
13. Start Novapoint and select the AutoCAD and configuration to use. Novapoint will exit. Start Novapoint again.

## First time startup configuration

Upon initial start-up, Novapoint displays the dialog for selecting configuration to the user. The content varies based on the AutoCAD version and Novapoint language.

The values is stored in the Current User area in the registry:

```
[HKEY_CURRENT_USER\Software\Trimble\Novapoint\21.05\NP_Acad\Kernel Services]
"Current Config"
"Language"
"AutoCAD Registry Key - x64"
"License System"
```

If you prefer to avoid the first time startup dialog to pop up, these values have to be set. The content varies based on the AutoCAD version and Novapoint language.

## Uninstall Trimble Novapoint

Always uninstall Novapoint using the uninstall feature in Add / Remove programs. To uninstall Novapoint.

1. On the *Start* menu, click *Control Panel*.
2. In the Control Panel, double-click *Programs and Features*
3. In the *Uninstall or change a program* window, select "Trimble Novapoint 21.05" in the list, and then click *Uninstall*.
4. Follow the instructions.

## Unattended installation

You may install Novapoint 21.05 from the command-line.

The Novapoint 21.05 MSI files resides in the folder "Install\Novapoint" in the Novapoint install image. Downloaded image must be unzipped before you run Setup.exe or the MSI file.

### Install running msixec.exe from the command-line

The installation requires administrator privileges on the client computer.

[PATH to install files] in the section below refers to the path the installation can be found.

#### *Syntax:*

To install Novapoint using MSIEXEC.EXE use the following syntax:  
Msiexec /i "[PATH to install files]\Trimble Novapoint 21.05.msi" INSTALLDIR="c:\Program Files\Trimble\Novapoint\21.05" /qb

**Note:** Installing using the MSI-file will not install the setup prerequisites included in Setup.exe. Install prerequisites one by one prior to the installation of Novapoint MSI-file.

Prerequisites for Microsoft .NET and "Microsoft Visual C++" are installed if an AutoCAD 2017 product already is installed.

You may skip this part and only install the "Microsoft SQL Server Compact 3.5 Service Pack 2" part to use with Novapoint.

Novapoint 21.05 depends on the following prerequisites:

- Microsoft .NET Framework 3.5 SP1
- Microsoft .NET Framework 4.0 Full Update KB2468871
- Microsoft .NET Framework 4.5.1 Full
- Microsoft .NET Framework 4.6.1 Full

In Windows 8 can enabling or disabling .NET 2.0, 3.0, 3.5, 4.0, 4.6 and 4.6 be done from Control Panel or Deployment Image Servicing and Management (DISM).  
[http://msdn.microsoft.com/en-us/library/hh506443\(v=vs.110\).aspx](http://msdn.microsoft.com/en-us/library/hh506443(v=vs.110).aspx)

- Microsoft Visual C++ 2008 SP1 Redistributable MFC Security Update KB2538243(x86)
- Microsoft Visual C++ 2008 SP1 Redistributable MFC Security Update KB2538243(x64)
- Microsoft Visual C++ 2010 SP1 Redistributable Package (x64)
- Microsoft Visual C++ 2012 Update 4 Redistributable Package (x64)
- Microsoft Visual C++ 2013 Redistributable Package (x64)
- Microsoft Visual C++ 2015 Update 2 Redistributable Package (x64)
- Microsoft SQL Server Compact 3.5 Service Pack 2 (x86)
- Microsoft SQL Server Compact 3.5 Service Pack 2 (x64)

**Note:** Both the x86 and x64 of the "Microsoft SQL Server Compact 3.5 Service Pack 2" needs to be installed. Install the x86 before the x64 package.

## Install prerequisites from command line

### Roll out prerequisites common with Novapoint and AutoCAD:

```
"[PATH to install files]\ISSetupPrerequisites\{074EE22F-2485-4FED-83D1-AAC36C3D9ED0}\dotnetfx35.exe" /1 1033 /v "/q /norestart"  
"[PATH to install files]\ISSetupPrerequisites\{439BD42A-2F5B-44c8-9FF2-BEB31BC34E63}\NDP451-KB2858728-x86-x64-AllOS-ENU.exe" /q /norestart  
"[PATH to install files]\ISSetupPrerequisites\{DD31C237-BFF4-499A-8B6C-F6AA9FCBDCE9}\NDP461-KB3102436-x86-x64-AllOS-ENU.exe" /q /norestart  
"[PATH to install files]\ISSetupPrerequisites\{22B20B17-D6FD-4E7B-9E0E-50E8D3B4B9EA}\vcredist_x86.exe" /q  
"[PATH to install files]\ISSetupPrerequisites\{49F8F3A9-6E81-4AD2-A5DF-86CC8EA97AEE}\vcredist_x64.exe" /q  
"[PATH to install files]\ISSetupPrerequisites\{7f66a156-bc3b-479d-9703-65db354235cc}\vcredist_x64.exe" /q  
"[PATH to install files]\ISSetupPrerequisites\{3A3AF437-A9CD-472f-9BC9-8EEDD7505A02}\vcredist_x64.exe" /q  
"[PATH to install files]\ISSetupPrerequisites\{8E0F08DD-DE1B-4882-AEEE-B117FFF33EEF}\vcredist_x64.exe" /q  
"[PATH to install files]\ISSetupPrerequisites\{9EB7C411-01AC-4A62-9329-817E52C72E68}\vcredist_x64.exe" /q
```

### Prerequisites installed with Novapoint:

(use msixec.exe to install MSI-files)

```
"[PATH to install files]\ISSetupPrerequisites\{7BE4E4DA-8ABB-4C39-AE73-9084FA850780}\SSCERuntime_x86-ENU.msi" /q  
"[PATH to install files]\ISSetupPrerequisites\{C52AA77B-ADDC-4FFF-892F-81B976B9BB0D}\SSCERuntime_x64-ENU.msi" /q
```

## More detailed descriptions for prerequisites

### Microsoft .NET Framework 3.5 SP1

Description: This prerequisite installs the .NET Framework 3.5 Service Pack 1 full package.

File: ISSetupPrerequisites\{074EE22F-2485-4FED-83D1-AAC36C3D9ED0}\dotnetfx35.exe

Command line used in Setup.exe: /I 1033 /v "/q /norestart"

Command line used in Setup.exe in silent mode: /I 1033 /v "/q /norestart"

### Microsoft .NET Framework 4.5.1 Full

Description: This prerequisite installs the .NET Framework 4.5.1 full standalone package.

File:ISSetupPrerequisites\{439BD42A-2F5B-44c8-9FF2-BEB31BC34E63}\NDP451-KB2858728-x86-x64-AllOS-ENU.exe

Command line used in Setup.exe: /showrmui /passive

Command line used in Setup.exe in silent mode: /q /norestart

### Microsoft .NET Framework 4.6.1 Full

Description: This prerequisite installs the .NET Framework 4.6.1 full standalone package.

File:ISSetupPrerequisites\{DD31C237-BFF4-499A-8B6C-F6AA9FCBDCE9}\NDP461-KB3102436-x86-x64-AllOS-ENU.exe

Command line used in Setup.exe: /showrmui /passive

Command line used in Setup.exe in silent mode: /q /norestart

### Microsoft Visual C++ 2008 SP1 Redistributable MFC Security Update KB2538243(x86)

Description: This prerequisite installs Microsoft Visual C++ 2008 Service Pack 1 Redistributable Package MFC Security Update on x86 systems.

File: ISSetupPrerequisites\{22B20B17-D6FD-4E7B-9E0E-50E8D3B4B9EA}\vc\_redist\_x86.exe

Command line used in Setup.exe: /q

Command line used in Setup.exe in silent mode: /q

### Microsoft Visual C++ 2008 SP1 Redistributable MFC Security Update KB2538243(x64)

Description: This prerequisite installs Microsoft Visual C++ 2008 Service Pack 1 Redistributable Package MFC Security Update on x86 systems.

File: ISSetupPrerequisites\{49FBF3A9-6E81-4AD2-A5DF-86CC8EA97AEE}\vc\_redist\_x64.exe

Command line used in Setup.exe: /q

Command line used in Setup.exe in silent mode: /q

### Microsoft Visual C++ 2010 SP1 Redistributable Package (x64)

Description: This prerequisite installs the Microsoft Visual C++ 2010 SP1 Runtime Libraries (x64).

File: ISSetupPrerequisites\{7f66a156-bc3b-479d-9703-65db354235cc}\vc\_redist\_x64.exe

Command line used in Setup.exe: /q

Command line used in Setup.exe in silent mode: /q

### Microsoft Visual C++ 2012 Update 4 Redistributable Package (x64)

Description: This prerequisite installs the Microsoft Visual C++ Runtime Libraries (x64) for VS 2012.

File: ISSetupPrerequisites\{3A3AF437-A9CD-472f-9BC9-8EEDD7505A02}\vc\_redist\_x64.exe

Command line used in Setup.exe: /q

Command line used in Setup.exe in silent mode: /q

### Microsoft Visual C++ 2013 Redistributable Package (x64)

Description: This prerequisite installs the Microsoft Visual C++ Runtime Libraries (x64) for VS 2013.

File: ISSetupPrerequisites\{8E0F08DD-DE1B-4882-AEEE-B117FFF33EEF}\vc\_redist\_x64.exe

Command line used in Setup.exe: /q

Command line used in Setup.exe in silent mode: /q

### Microsoft Visual C++ 2015 Redistributable Package (x64)

Description: This prerequisite installs the Microsoft Visual C++ 2015 Update 2 Runtime Libraries (x64).

File: ISSetupPrerequisites\{9EB7C411-01AC-4A62-9329-817E52C72E68}\vc\_redist.x64.exe

Command line used in Setup.exe: /q

Command line used in Setup.exe in silent mode: /q

### Microsoft SQL Server Compact 3.5 Service Pack 2 (x86)

Description: Microsoft SQL Server Compact 3.5 Service Pack 2 (x86)

File:

ISSetupPrerequisites\{7BE4E4DA-8ABB-4C39-AE73-9084FA850780}\SSCERuntime\_x86-ENU.msi

Command line used in Setup.exe: /quiet

Command line used in Setup.exe in silent mode: /quiet

### Microsoft SQL Server Compact 3.5 Service Pack 2 (x64)

Note: Both the x86 and x64 package needs to be installed

Description: Microsoft SQL Server Compact 3.5 Service Pack 2 (x64)

File:  
ISSetupPrerequisites\{C52AA77B-ADDC-4FFF-892F-81B976B9BB0D}\SSCERuntime\_x64-ENU.msi  
Command line used in Setup.exe: /quiet  
Command line used in Setup.exe in silent mode: /quiet