



*FDOTSS4  
Installation Guide*

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*Production Support Office | CADD*

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## Overview

### System Requirements

- Microsoft Windows 7 or Microsoft Windows 10
  - 32 bit or 64 bit Operating Systems
  - Microsoft .NET Framework 3.5
  - Microsoft Office 2013 (can be configured for Office 2003, 2007 or 2010)
  - PowerGEOPAK 08.11.09.878
- or-
- MicroStation 08.11.09.832
  - GEOPAK Suite 08.11.09.878

**NOTE:** The system requirements are based on the FDOT standard software for CADD workstations. Older versions of Office can be used.

**NOTE:** The 08.11.09.832 version of MicroStation was compiled specifically for the 08.11.09.878 version of GEOPAK. The best way access and download MicroStation from Bentley's SELECTServices site is to Search for the 08.11.09.878 version of the BENTLEY GEOPAK Civil Engineering Suite and download it with its dependent version of MicroStation as Shown below.

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GEOPAK X »

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▶	<input type="checkbox"/> Bentley GEOPAK Civil Engineering Suite V8i (English) 32-bit	08.11.09.872	04/21/2016	553 MB	↓
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## General Information

The FDOTSS4 Suite can be installed in 2 configurations.

1. Server/Client
2. Stand-Alone Workstation

Server/Client configuration is ideal for sites with multiple computers. In this configuration a FDOTSS4 directory is installed on a server with the clients accessing the FDOTSS4 resources from the server. This allows the administrator to update the FDOTSS4 resources on an unlimited number of clients by updating the server.

**NOTE:** *This configuration is done through two installations. First the FDOTSS4 Server must be installed and then the FDOTSS4 Client software can be installed on the client computers.*

The Stand-Alone Workstation configuration should only be used when a computer will not always have access to the network, such as a laptop, or when a network is not present. This configuration has been provided to create the FDOTSS4 directory locally and configure MicroStation to access the FDOTSS4 workspace locally.

## User Access Rights

Users must have rights to modify files in the local FDOTSS4 directory and its subdirectories. Access to files on the server may be restricted to Read only.

## Microsoft .NET Framework

Microsoft .NET Framework, version 3.5 or higher must be loaded on the local workstation before the FDOTSS4 software will operate properly. If used in a Client/Server configuration, the Microsoft .NET Framework Security must be properly configured on each Client.

To configure the Net Framework Security:

1. Click the Start Button.
2. In the Search field type 'CMD'.
3. Right Click on the CMD.exe icon in the Programs list and select Run as Administrator.
4. Copy and paste the following keyin in CMD window:

**NOTE:** *On a 64-bit machine, you should run both the 64bit and 32bit commands.*

### 64bit system:

```
c:\windows\Microsoft.NET\Framework64\v2.0.50727\caspol.exe -quiet -machine -chgroup LocalIntranet_Zone FullTrust
```

### 32bit system:

```
c:\windows\Microsoft.NET\Framework\v2.0.50727\caspol.exe -quiet -machine -chgroup LocalIntranet_Zone FullTrust
```

## Silent Installations

The FDOTSS4 installations can be completed silently. It will be necessary to provide the values for specific properties in the command line string. These properties will define the values typically enter into the dialogs during a manual installation.

Command line syntax:

```
Msiexec /i <path to msi> /qn PROPERTY=value PROPERTY=value
```

You can include multiple properties separated by a space.

**NOTE:** *The name of a property contains only uppercase letters.*

**NOTE:** *The trailing backslash is required for the paths defined.*

Client Properties	
<b>APPDIR</b>	Defines the path to the local FDOTSS4 directory
<b>SERV</b>	Defines the path to the FDOTSS4 server directory
<b>PROJ</b>	Defines the path to the MicroStation Projects directory

```
Msiexec /i \\ServerName\SherName\FDOTSS4Client.msi /qn APPDIR=c:\FDOTSS4\  
SERV=\\Server\Share\FDOTSS4\ PROJ=c:\e\projects\
```

Workstation Properties	
<b>APPDIR</b>	Defines the path to the local FDOTSS4 directory
<b>PROJ</b>	Defines the path to the MicroStation Projects directory

```
Msiexec /i \\ServerName\SherName\FDOTSS4Workstation.msi /qn APPDIR=c:\FDOTSS4\  
PROJ=c:\e\projects\
```

## Installation Order

The suggested installation order is shown below:

1. Operating System (with service packs)
2. Microsoft Office Suite
3. Microsoft .NET Framework.
4. PowerGEOPAK (or MicroStation and GEOPAK Suite)
5. FDOTSS4 (Client or Workstation)

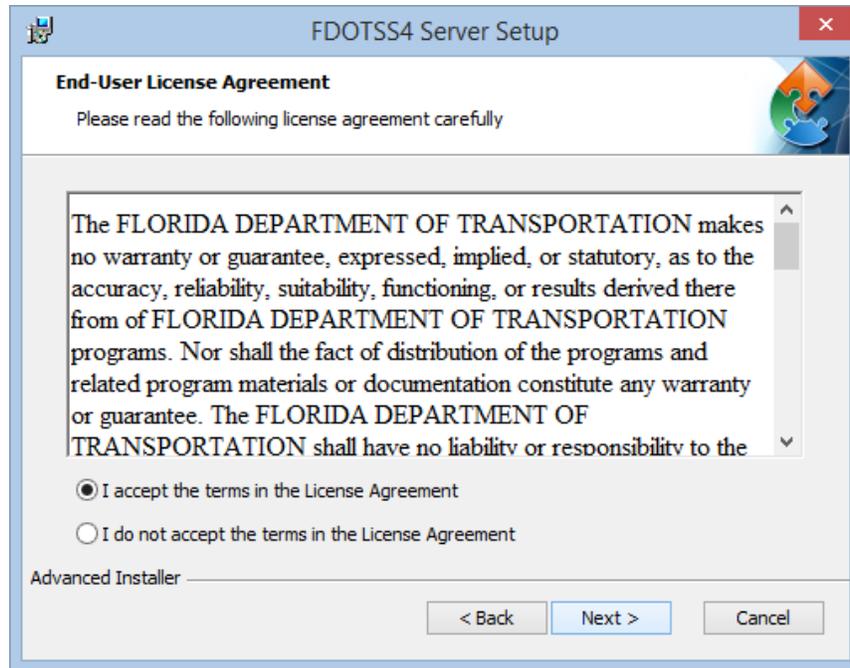
## Sample Installations

### FDOTSS4 Server

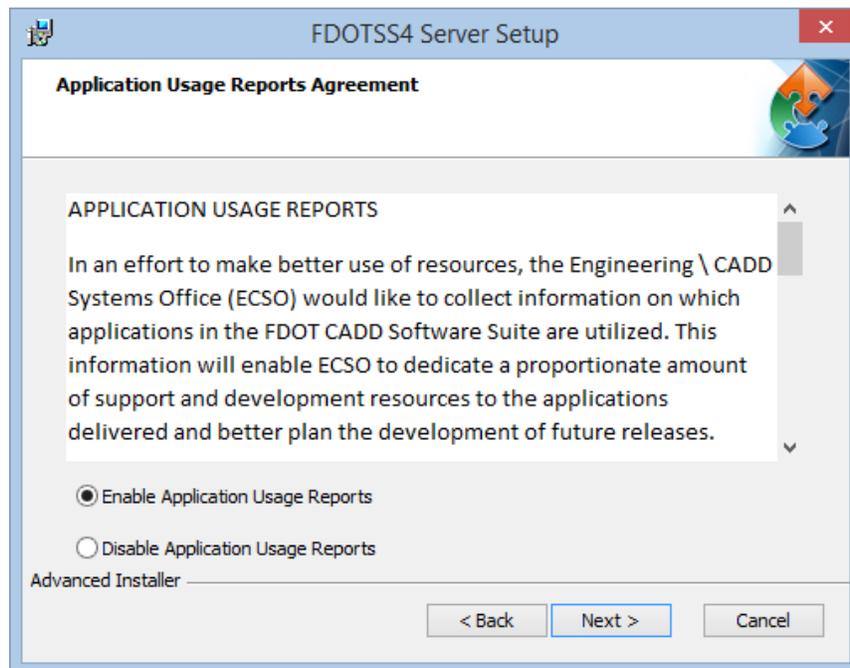
Installing the FDOTSS4 Server will create a FDOTSS4 directory containing the resources used by the FDOT workspaces to customize MicroStation for use on FDOT projects.



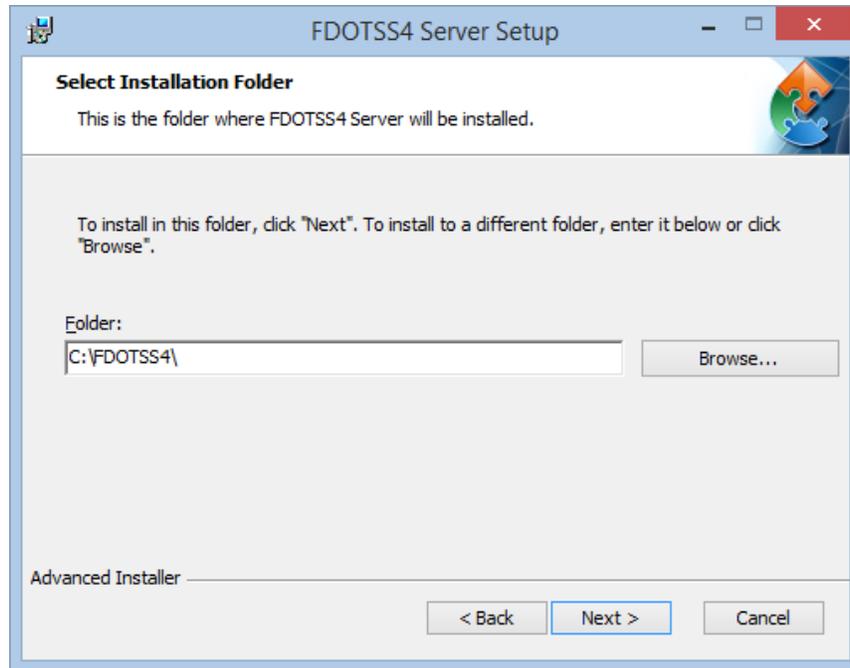
Select **Next** to continue.



Accept the License Agreement and click **Next** to continue.

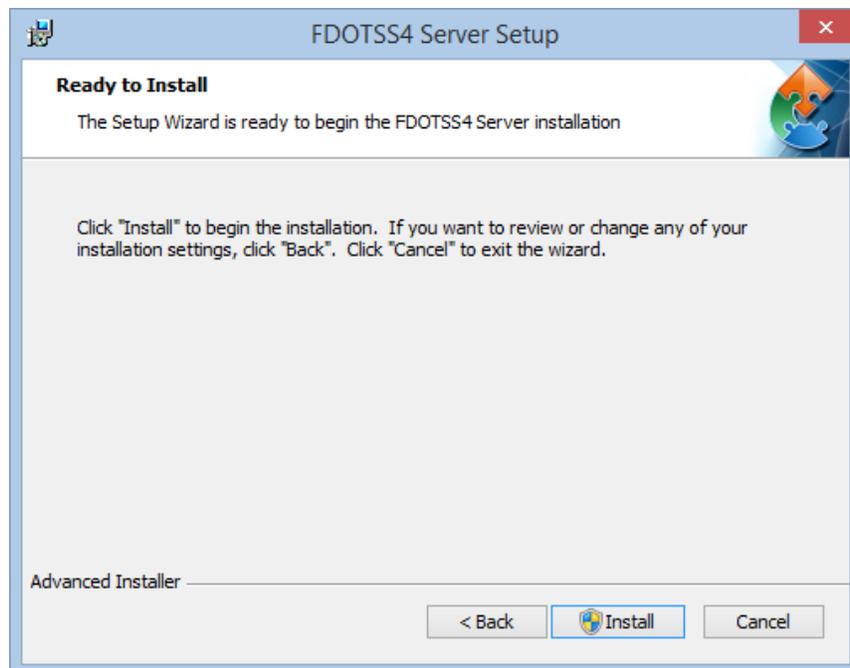


Choose to Enable or Disable Application Usage Reports and click **Next**.

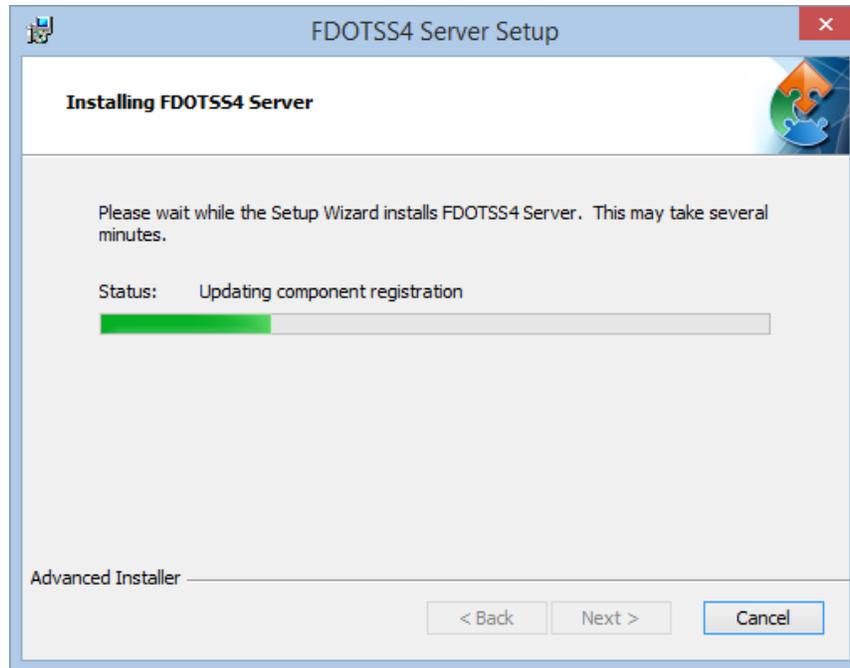


Key in the destination path for the FDOTSS4 server directory or click the **Browse** button to define the software destination directory.

When the path is defined select **Next** to continue.



Select **Install** to continue.



Files will be copied to the destination path.



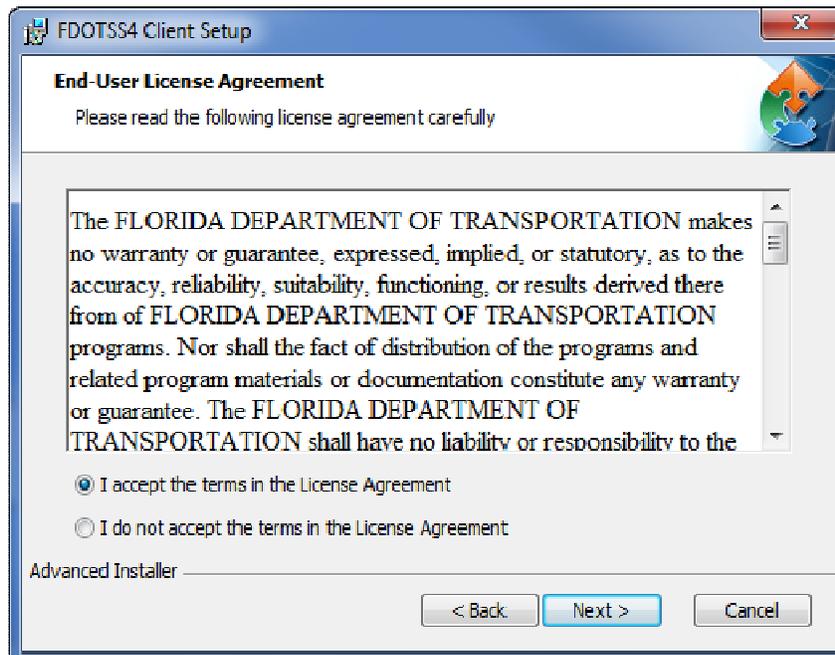
Select **Finish** completing the installation.

## FDOTSS4 Client

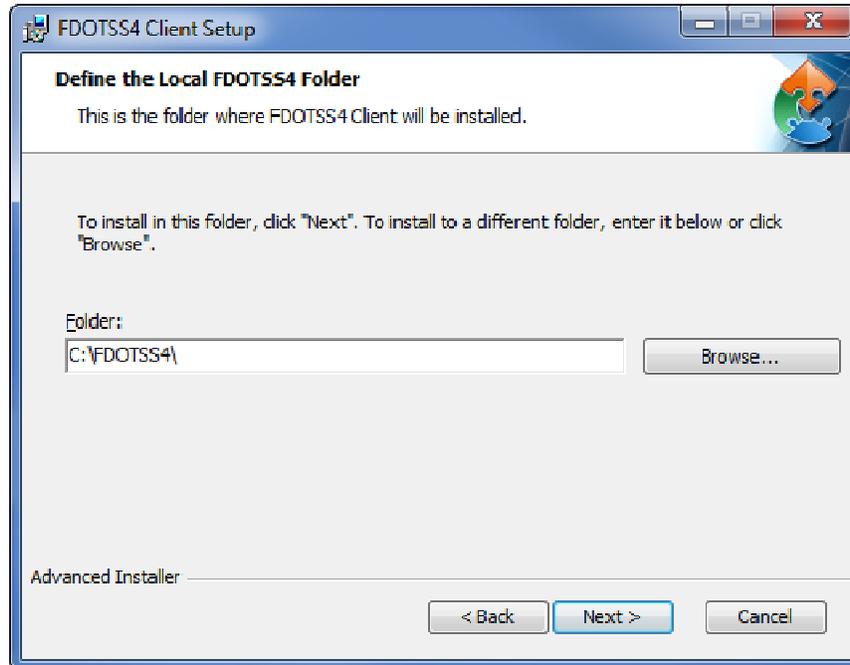
MicroStation workspaces will be installed and configured to read FDOTSS4 and MicroStation resources from a server. Only a minimum of files for end user customization, preferences and workspace configuration will be installed locally.



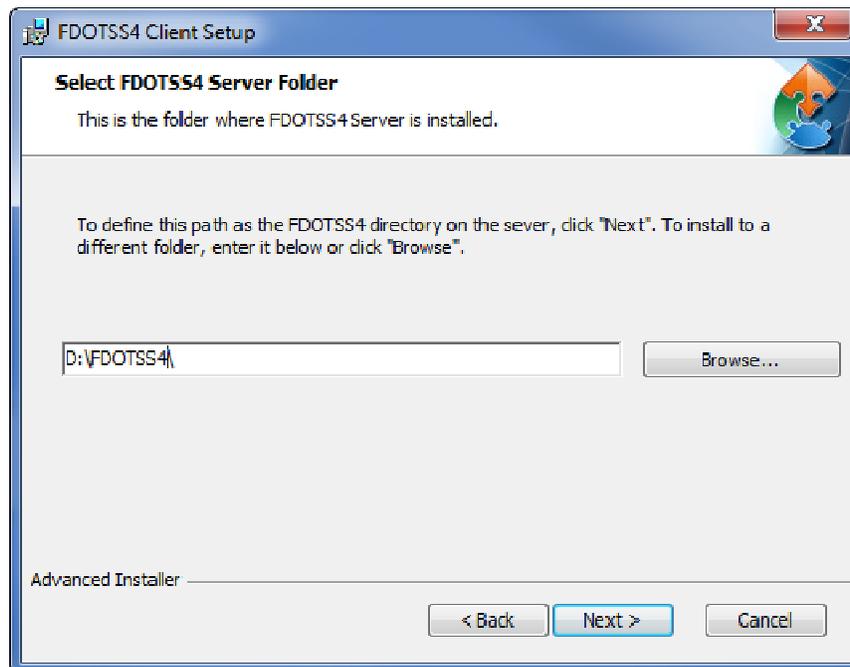
Select **Next** to continue.



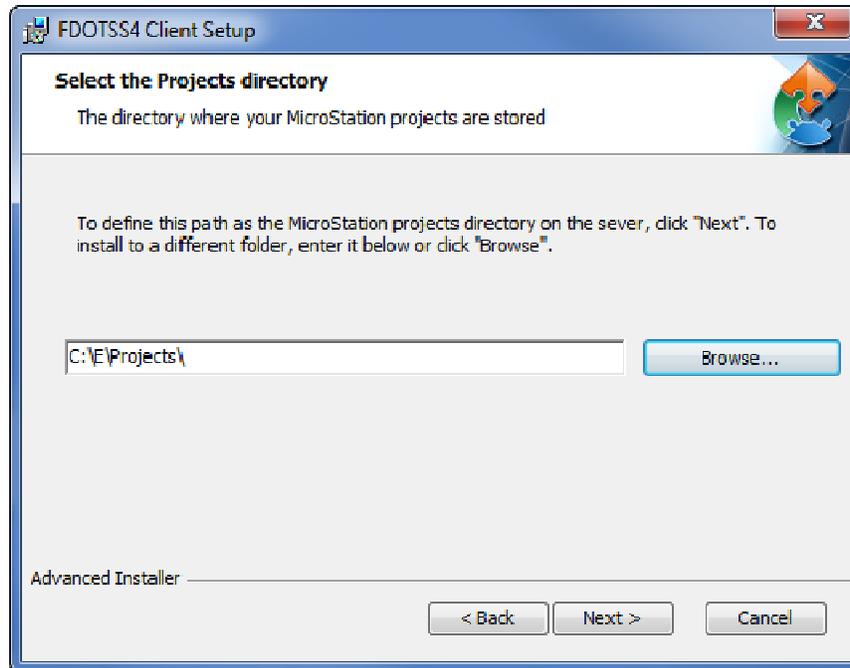
Accept the End-User License Agreement and click **Next** to continue.



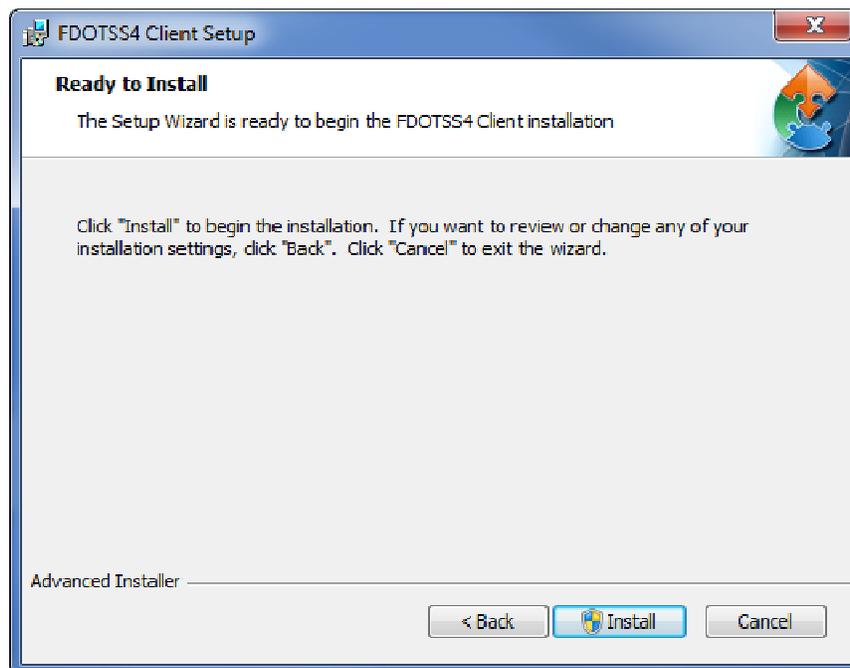
Click **Next** to install FDOTSS4 to default folder or define a different location and click **Next**.



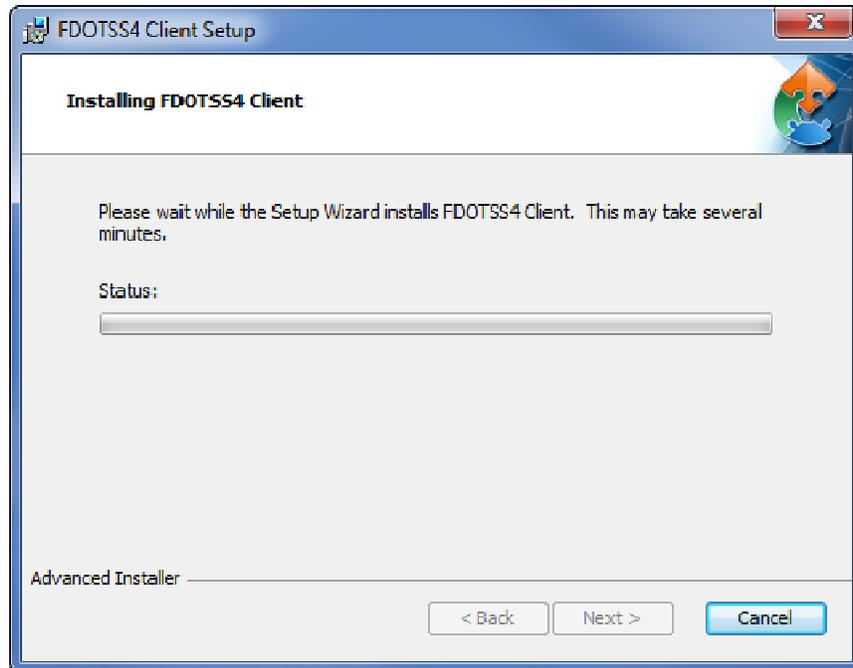
Define the path to the FDOTSS4 directory on the server or key in UNC path and click **Next**.



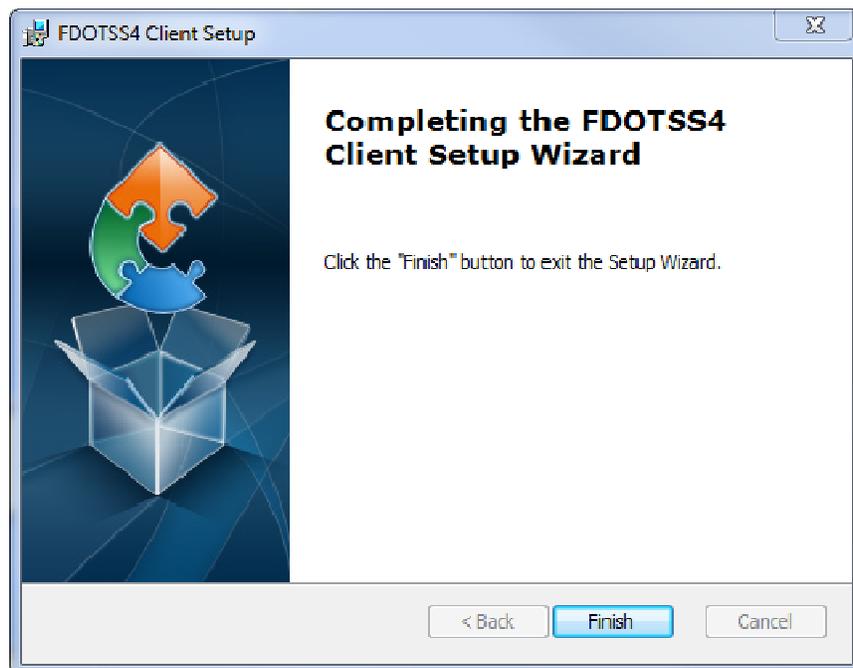
Define the path to the MicroStation “Projects” directory or key in path and click **Next**.



Select **Install** to continue.



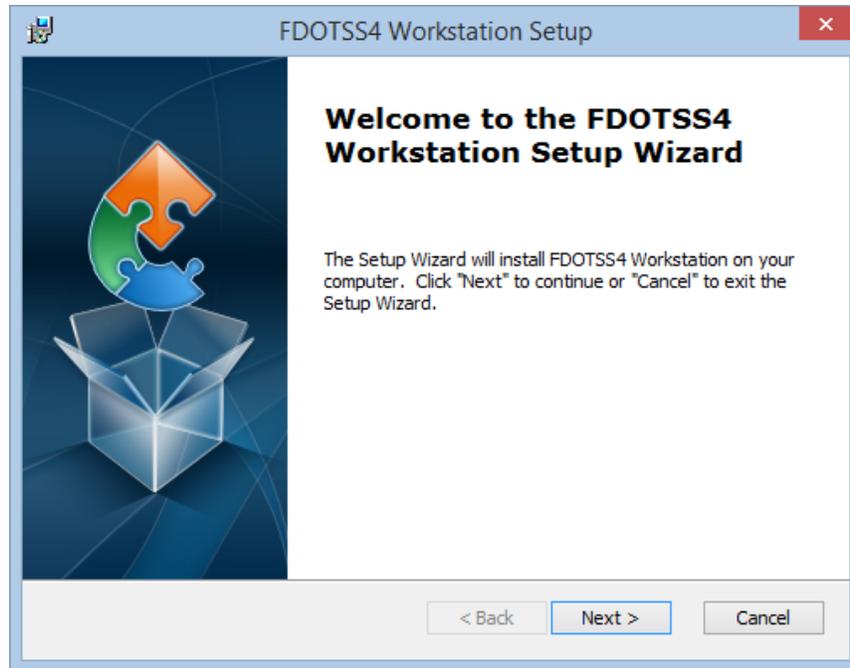
Files will be copied to the destination path.



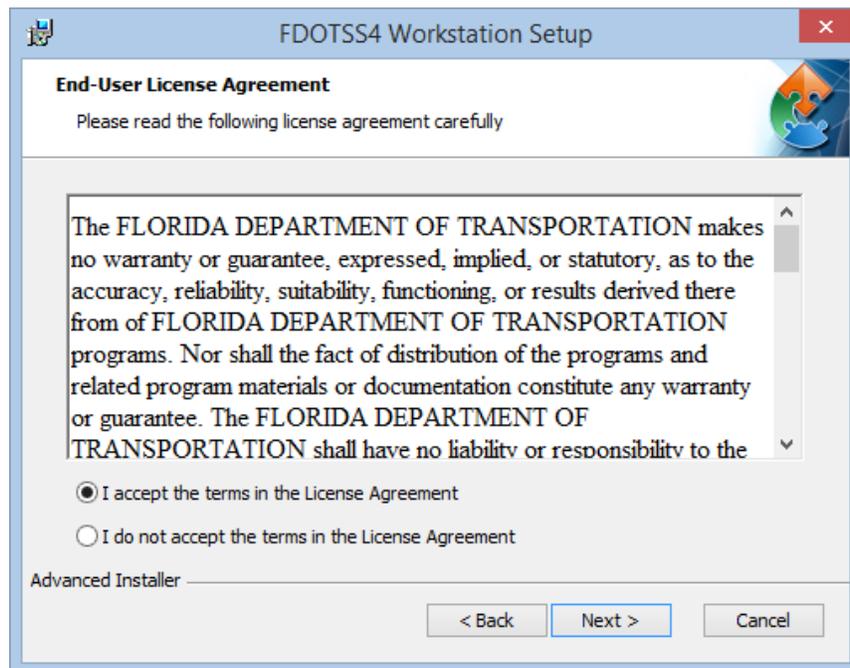
Select **Finish** completing the installation.

## FDOTSS4 Workstation (Stand-Alone)

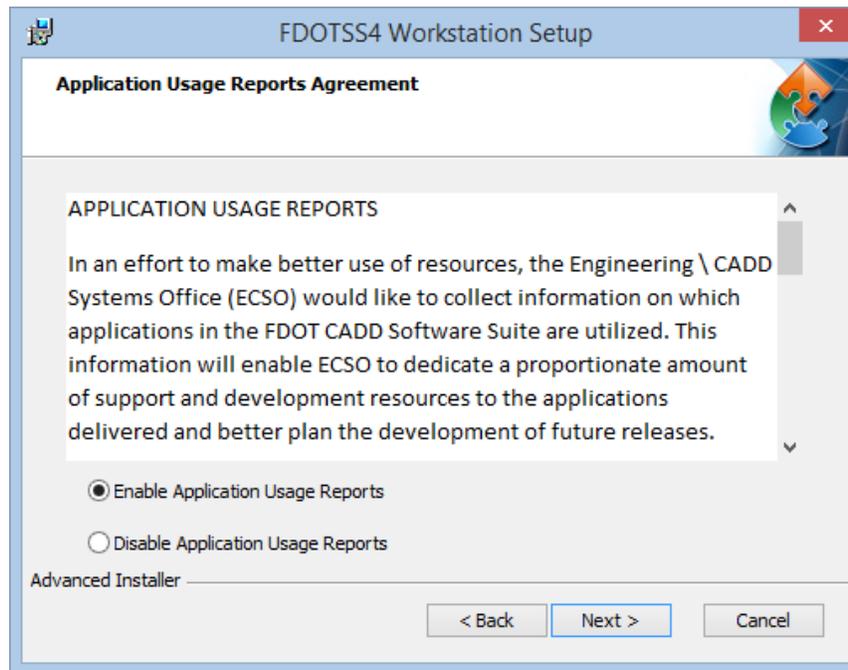
MicroStation workspaces will be installed and configured to read FDOTSS4 and MicroStation resources from a local FDOTSS4 directory.



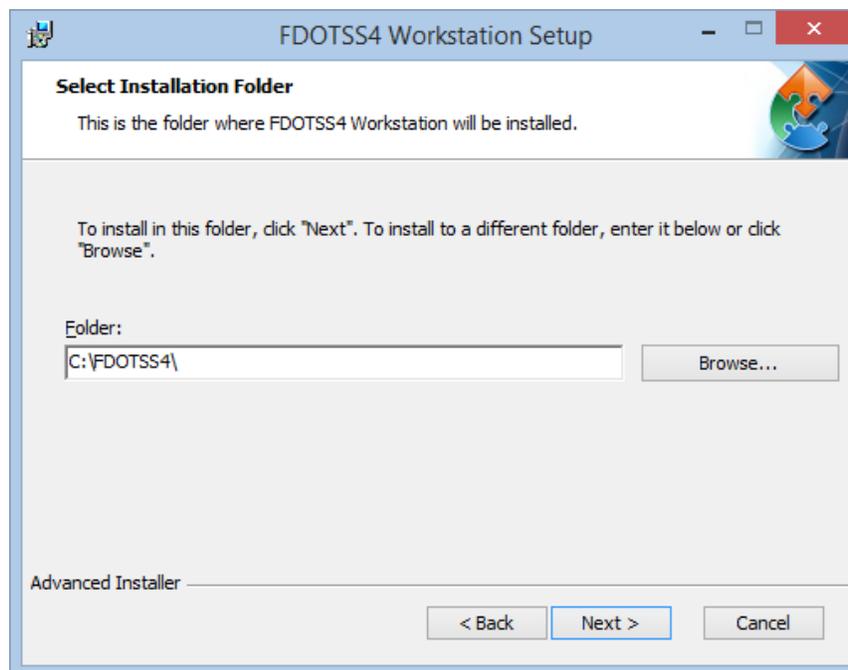
Select **Next** to continue.



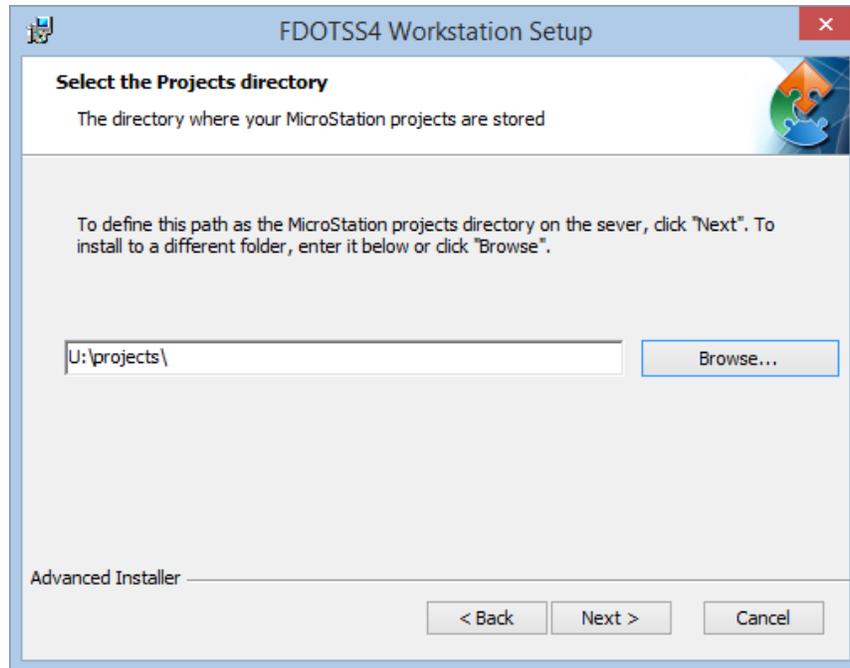
Accept the End-User License Agreement and click **Next** to continue.



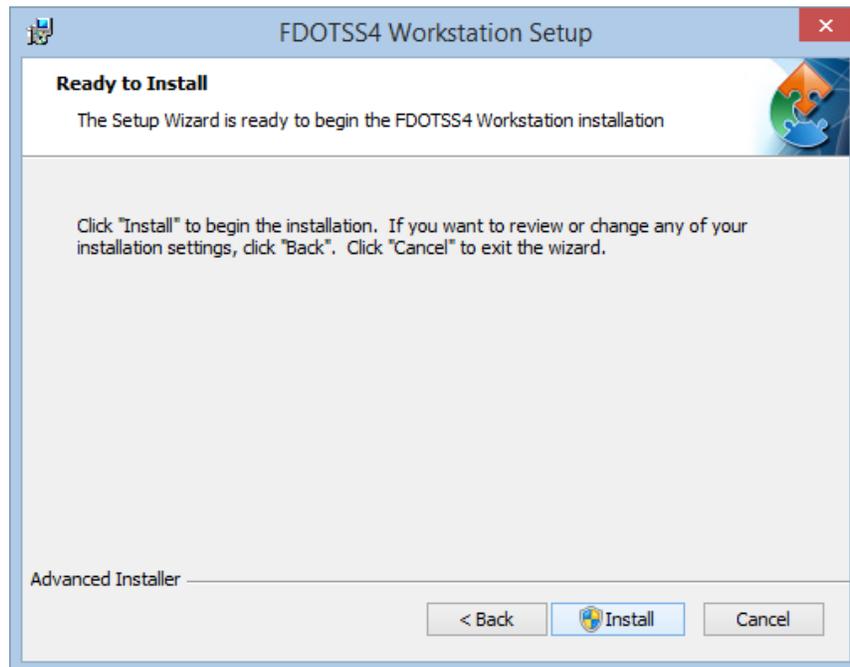
Choose to Enable or Disable Application Usage Reports and click **Next**.



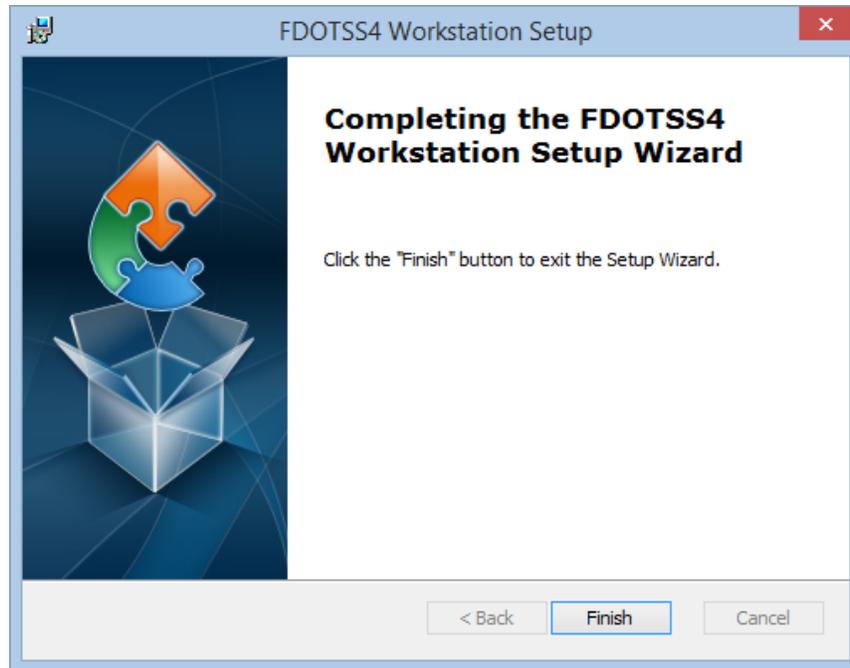
Select **Next** to continue.



Click Browse to define the path to the MicroStation “Projects” directory or key in path.



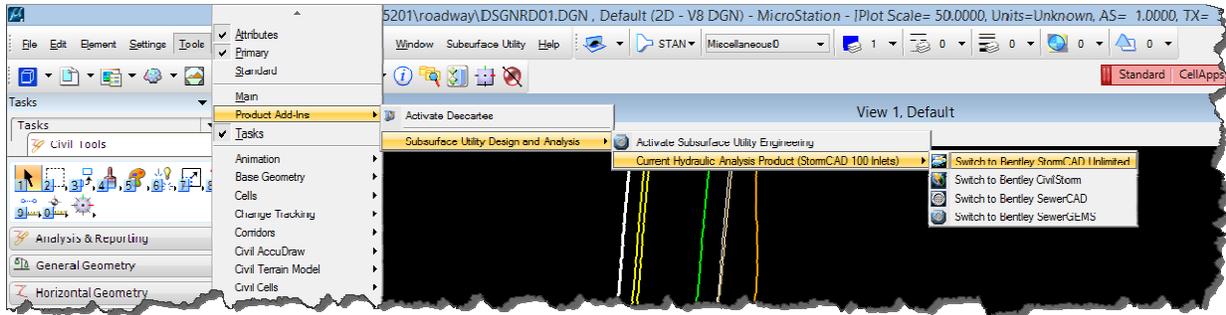
Select **Install** to continue.



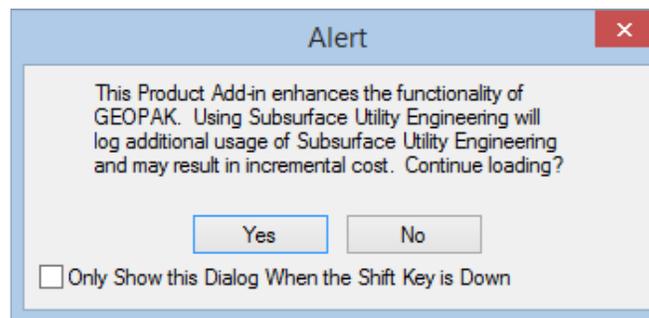
Select **Finish** completing the installation.

## GEOPAK Product Add-Ins

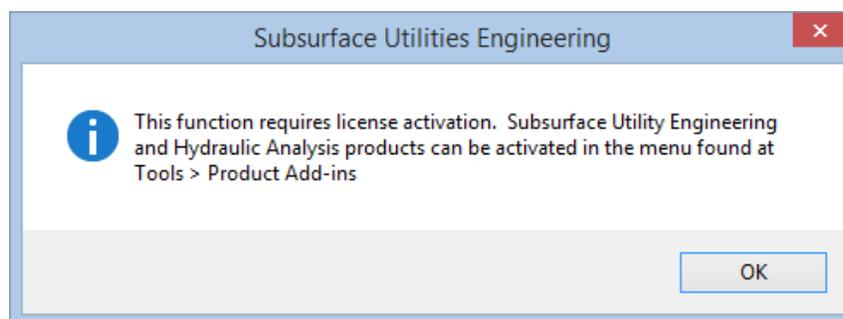
There are now several additional products distributed by Bentley with PowerGEOPAK and the GEOPAK Suite. These products can be activated using the “Tools > Product Add-Ins” menu.



Although distributed with GEOPAK these “Product Add-Ins” are not covered as part of your PowerGEOPAK and the GEOPAK Suite license agreement. If activated, these “Product Add-Ins” will alert the user that activating the selected “Product Add-In” will log additional license usage and may result in additional cost. Pay careful attention to the Alert box shown below, and the potential consequences.



The Subsurface Utility Engineering module has three main functions: It models utilities, does clash detection, and provides enhanced attribution of utility features. The modeling of utilities is provided for in PowerGEOPAK and the GEOPAK Suite licensing. However, the use of tools related to clash detection, or enhanced attribution of utilities will require the SUE Product Add-In” to be activated. If a user tries to utilize he enhanced features a message directing them to the “Tools > Product Add-Ins” menu will appear.



It is strongly recommended that you contact your Bentley account representative to get detailed information on how these additional “Product Add-Ins” are licensed, and to review your account coverage.

The FDOTSS4 workspace utilizes some of the basic modeling functionality provided by the Subsurface Utility Engineering product to model utility lines. The functionality the FDOTSS4 workspace uses is covered by your basic PowerGEOPAK or GEOPAK Suite license. Therefore it is necessary to install the Subsurface Utility Engineering product, but the user’s ability to activate the product may be disabled by customizing the MicroStation workspace.

If CADD managers would like to exercise more control over the activation of “Product Add-Ins” to reduce the chance of unexpected costs some minor customization can be done. A customized DGNLIB is provided with the FDOTSS4 workspace which gives CADD managers the ability to disable each of the “Product Add-Ins” using configuration variables.

To enable this capability

1. Copy the **CivilCommands.dgnlib** from the `\FDOTSS4\RESOURCES\Dgnlibs\General` folder on the server to:

If using GEOPAK Suite:

***C:\Program Files (x86)\Common Files\Bentley Shared\Civil Platform\08.11.09***

If using PowerGEOPAK:

***C:\Program Files (x86)\Bentley\PowerGEOPAK V8i (SELECTSeries 4)\PowerGEOPAK\CivilPlatform***

2. Add the following variables to a file named CustomVars.txt file in the `\FDOTSS4\Workspace\Users` folder on the server.

```
FDOT_DISABLE_DESCARTES=TRUE
FDOT_DISABLE_SUE=TRUE
FDOT_DISABLE_STORMCADUNLIMITED=TRUE
FDOT_DISABLE_CIVILSTORM=TRUE
FDOT_DISABLE_SEWERCAD=TRUE
FDOT_DISABLE_SEWERGEMS=TRUE
```

If the value is set to TRUE the associated “Product Add-In” will be disabled. If it is not set or set to anything other than TRUE the menu option to activate the associated “Product Add-In” will be enabled.

To allow only specific users the ability to enable a product(s) the associated variable(s) can be placed in the bottom of the users **FDOTSS4.UCF** file located in the local `\FDOTSS4\workspace\users` directory on the user’s PC.