Windows Installer Service

Guide for installing eCADSTAR software

eCADSTAR™

BEYOND ENGINEERING

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Table of Contents

Introduction

The **Windows Installer Service** is an operating system service developed by Microsoft. The service improves the installation and uninstallation of programs, makes software deployment in corporate networks easier, helps to solve common problems, such as shared DLL conflicts, and reduces the total cost of ownership to the final user.

The **eCADSTAR** product installers use the **Windows Installer Service**.

This guide provides only a summary of the options that the user may typically call upon when using the **Windows Installer Service** to setup the **eCADSTAR** products. For full documentation for the **Windows Installer Service**, please click here to browse to the Microsoft website.

NOTE: For simple straight forward installation, you can run the eCADSTAR setup executables within the Windows interface using the Installation Wizards.

eCADSTAR Command Line Setup

The following command line options can be used with the **eCADSTAR** setup executables. The command line format should be entered as follows:

<eCADSTAR setup exe> <setup exe options> /v"<msiexec options>"

where:

<eCADSTAR setup exe>	Is the eCADSTAR setup executable for the eCADSTAR product. This file will typically be downloaded from the Zuken Global Support website. Example: **eCADSTAR_2021.1.0.118_setup.exe**
<setup exe options>	These are the options to control how the **eCADSTAR** setup executables behave and how it calls the **Windows Installer Service**. Example: **/i**
<msiexec options>	These are the options to be passed to the **Windows Installer Service** to control the operation of the **msiexec** command and configure properties for the software when performing the **eCADSTAR** setup operations. Example: **/v"/qn"** **NOTE:** Parameters to be passed to the **Windows Installer Service** must be enclosed within double quotation marks **"<param>"** and be prefixed with the **/v** option. No spaces should exist between the **/v** and **"<param>"** items.

The Setup Executable Options

The following options can be defined for the **<setup exe options>** when performing a command line setup of **eCADSTAR**.

Option	**/i**
Command Operation	**Install Software**
Description	Launches the **eCADSTAR** setup to perform an install of the **eCADSTAR** software. **NOTE:** This is the default setting for the **eCADSTAR** setup executable so can be excluded from the command line format to install **eCADSTAR**.
Example	**eCADSTAR_2021.1.0.118_setup.exe /i**

Option	**/x**
Command Operation	**Uninstall Software**
Description	Launches the **eCADSTAR** setup to perform an uninstall of the **eCADSTAR** software.
Example	**eCADSTAR_2021.1.0.118_setup.exe /x**

Option	**/f**
Command Operation	**Repair Software**
Description	Launches the **eCADSTAR** setup to perform a repair of the **eCADSTAR** software.
Example	**eCADSTAR_2021.1.0.118_setup.exe /f**

Option	**/a**
Command Operation	**Administrative Installation**
Description	Launches the **eCADSTAR** setup to allow the extraction of the application files to a defined location on a network or local drive. **NOTE:** Please see section titled **Administrative Installation** for further details on using this option.
Example	**eCADSTAR_2021.1.0.118_setup.exe /a**

Option	**/s**
Command Operation	**Run eCADSTAR setup silently**
Description	Launches the **eCADSTAR** setup in silent mode when performing an install, uninstall, or repair of the **eCADSTAR** software. **NOTE:** The **/s** option can be used in combination with any of the options described above.
Example	**eCADSTAR_2021.1.0.118_setup.exe /s**

The msiexec Options

The following options can be defined for the **/v"<msiexec options>"** when performing a command line setup of **eCADSTAR**.

Further details on the msiexec command line options can be found [here](#) on the Microsoft website.

If the setup process requires a reboot, some of the silent setup options will do so without warning. Please see the Microsoft documentation for further details.

Option	**/qn**
Command Operation	**No User Interface**
Description	Runs the **Windows Installer Service** with no user interface displayed to the user during the installation process. There is no confirmation message given when the setup process has completed. **NOTE:** The **Windows Installer Service** will fail if the user does not have **Administrator** privileges to install, uninstall or repair the software. This will typically occur as the user cannot confirm the **User Account Control** question.
Example	**eCADSTAR_2021.1.0.118_setup.exe /i /v"/qn"**

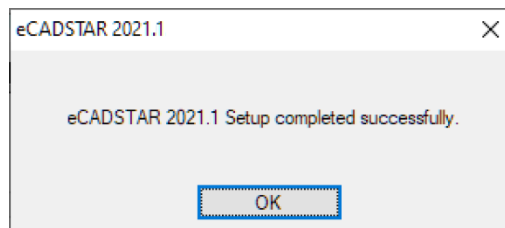| Option	**/qn+**
Command Operation	**No User Interface with completion message**
Description	Runs the **Windows Installer Service** with no user interface displayed to the user during the installation process. There is a confirmation message given when the setup process has completed. **NOTE:** The **Windows Installer Service** will fail if the user does not have **Administrator** privileges to install, uninstall or repair the software. This will typically occur as the user cannot confirm the **User Account Control** question.
Example	**eCADSTAR_2021.1.0.118_setup.exe /i /v"/qn+"**

Figure 1: Confirmation Message at setup completion

Option	/qb
Command Operation	**Basic User Interface**
Description	Runs the **Windows Installer Service** with a basic user interface showing the progress of the setup process. The user interface includes a Cancel button. There is no confirmation message given when the setup process has completed.
	NOTE: If the user does not have **Administrator** privileges to install, uninstall or repair the software, they will be presented with the **User Account Control** question to continue to proceed.
Example	**eCADSTAR_2021.1.0.118_setup.exe /i /v"/qb"**

Figure 2: Basic User Interface

Option	/qb+
Command Operation	**Basic User Interface with completion message**
Description	Runs the **Windows Installer Service** with a basic user interface showing the progress of the setup process. The user interface includes a Cancel button. There is a confirmation message given when the setup process has completed.
	NOTE: If the user does not have **Administrator** privileges to install, uninstall or repair the software, they will be presented with the **User Account Control** question to continue to proceed.
Example	**eCADSTAR_2021.1.0.118_setup.exe /i /v"/qb+"**

Option	/qb!
Command Operation	**Basic User Interface, no Cancel button**
Description	Runs the **Windows Installer Service** with a basic user interface showing the progress of the setup process. The user interface does not include a Cancel button. There is no confirmation message given when the setup process has completed.
	NOTE: If the user does not have **Administrator** privileges to install, uninstall or repair the software, they will be presented with the **User Account Control** question to continue to proceed.
Example	**eCADSTAR_2021.1.0.118_setup.exe /i /v"/qb!"**

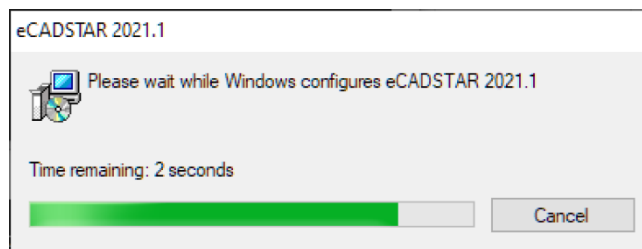| Option	/qr
Command Operation	**Reduced User Interface**
Description	Runs the **Windows Installer Service** with a reduced user interface showing the progress of the setup process, the user cannot control the setup of the interface. The user interface includes a Cancel button. There is no confirmation message given when the setup process has completed. **NOTE:** If the user does not have **Administrator** privileges to install, uninstall or repair the software, they will be presented with the **User Account Control** question to continue to proceed.
Example	**eCADSTAR_2021.1.0.118_setup.exe /i /v"/qr"**

Figure 3: Reduced User Interface

The Properties of the msiexec Options

The following properties are supported for **eCADSTAR** when using the Windows Installer Service to setup **eCADSTAR** from the command line.

- The **Property names** are case sensitive, so cannot be replaced with lower case characters.
  - o Example: **INSTATLLDIR** not **InstallDir**
- Where the **Property values** contain space characters these values must be enclosed by double quotation **"** characters.
  - o Double quotation **"** characters required within the /v"" parameter to be passed to the msiexec must be preceded with the escape sequence backslash **** character.
    - ▪ Example: **/v"INSTALLDIR=\"C:\eCADSTAR 2021\""**

Property	INSTALLDIR
Description	Defines the installation directory for the **eCADSTAR** application files to be located.
Default	**C:\Program Files\eCADSTAR\eCADSTAR 2021.1**
Example	**eCADSTAR_2021.1.0.118_setup.exe /i /v"INSTALLDIR=D:\eCS2021"**

Property	USERDIR
Description	Defines the installation directory for the **eCADSTAR** user files to be located.
Default	**C:\Users\Public\eCADSTAR\eCADSTAR 2021.1**
Example	**eCADSTAR_2021.1.0.118_setup.exe /i /v"USERDIR=D:\eCS2021_userfiles"**

Property	LICENSETYPE

Description	Defines the license type that will be used for the **eCADSTAR** applications. The possible license types are:
	
	If using a software key only:
	     LICENSE_TYPE_NODELOCKED
	
	If using a network license server only or network license server combined with a software key:
	     LICENSE_TYPE_NETANDNODE
	
	It is typical to also define the properties **HOSTNAME** and **HOSTPORT** when this property is defined with the value **LICENSE_TYPE_NETANDNODE**.

Default	**LICENSE_TYPE_NODELOCKED**
Example	**eCADSTAR_2021.1.0.118_setup.exe /i /v"LICENSETYPE=LICENSE_TYPE_NETANDNODE"**

Property	HOSTNAME
Description	Defines the host name of the network license server machine that will be used for the **eCADSTAR** applications. This property is only valid if the property **LICENSETYPE=LICENSE_TYPE_NETANDNODE** has been defined. It is typical to also define the property **HOSTPORT** when defining this property.
Default	**<BLANK>**
Example	**eCADSTAR_2021.1.0.118_setup.exe /i /v"LICENSETYPE=LICENSE_TYPE_NETANDNODE HOSTNAME=eCSlicserver"**

Property	HOSTPORT
Description	Defines the host port number of the network license server machine that will be used for the **eCADSTAR** applications. This property is only valid if the property **LICENSETYPE=LICENSE_TYPE_NETANDNODE** has been defined. It is typical to also define the property **HOSTNAME** when defining this property.
Default	**1700**
Example	**eCADSTAR_2021.1.0.118_setup.exe /i /v"LICENSETYPE=LICENSE_TYPE_NETANDNODE HOSTPORT=12380"**

Property	ALLUSERS
Description	Defines which users when logged onto the machine can access the installed **eCADSTAR** applications. To control the process to only install for the **current user** then the property should be defined as **ALLUSERS=""**
Default	**All Users**
Example	**eCADSTAR_2021.1.0.118_setup.exe /i /v"ALLUSERS=\"\" /qn+"**

Property	ASSOCIATEFILETYPES
Description	Defines if the **sdes** and **pdes** file types are to be associated with the **eCADSTAR** applications. To control if the **sdes** and **pdes** file types are not to be associated with the **eCADSTAR** then the property should be defined as **ASSOCIATEFILETYPES=""**
Default	**ON**
Example	**eCADSTAR_2021.1.0.118_setup.exe /i /v"ASSOCIATEFILETYPES=\"\""**

Property	ASSOCIATEFILETYPES_SCHEMATIC
Description	Defines if the **sdes** file type is to be associated with the **eCADSTAR Schematic Viewer** application. To control if the **sdes** file type is to be associated with the **eCADSTAR Schematic Viewer** then the property should be defined as **ASSOCIATEFILETYPES_SCHEMATIC=-viewerMode** This property is not valid if the property **ASSOCIATEFILETYPES=""** has been defined in the command line string.
Default	**eCADSTAR Schematic Editor**
Example	**eCADSTAR_2021.1.0.118_setup.exe /i /v"ASSOCIATEFILETYPES_SCHEMATIC=-viewerMode"**

Property	ASSOCIATEFILETYPES_PCB
Description	Defines if the **pdes** file type is to be associated with or the **eCADSTAR PCB Viewer** applications. To control if the **pdes** file type is to be associated with the **eCADSTAR PCB Viewer** then the property should be defined as **ASSOCIATEFILETYPES_PCB=-viewerMode** This property is not valid if the property **ASSOCIATEFILETYPES=""** has been defined in the command line string.
Default	**eCADSTAR PCB Editor**
Example	**eCADSTAR_2021.1.0.118_setup.exe /i /v"ASSOCIATEFILETYPES_PCB=-viewerMode"**

Property	AUTOCHECKUPDATES
Description	Defines the initial setting for performing an automatic check for **eCADSTAR** product updates during launch of the **eCADSTAR** applications. To control if this setting is disabled after installation then the property should be defined as **AUTOCHECKUPDATES=""**
Default	**ON**
Example	**eCADSTAR_2021.1.0.118_setup.exe /i /v"AUTOCHECKUPDATES=\"\""**

Property	TARGETDIR
Description	Defines the extraction target directory when performing an **eCADSTAR Administrative Installation**.
Default	**C:**
Example	**eCADSTAR_2021.1.0.118_setup.exe /a /v"TARGETDIR=C:\eCS2021"**

Performing a Silent Setup of eCADSTAR

The **eCADSTAR** applications can be setup silently onto a PC. This process can setup the applications without displaying any user interface while it occurs.

As these is no user interface displayed the **User Account Control** question is also not displayed to the user. Therefore, the silent setup will fail to complete unless the **Command Prompt** window is launched with **Administrator** privileges. To ensure the **Command Prompt** is running with the required privileges then it should be launched by selecting the **Run as administrator** option available on the **Start menu** or from the **Context menu** when using the **Right Mouse Button** (RMB) over the **Command Prompt App** icon.
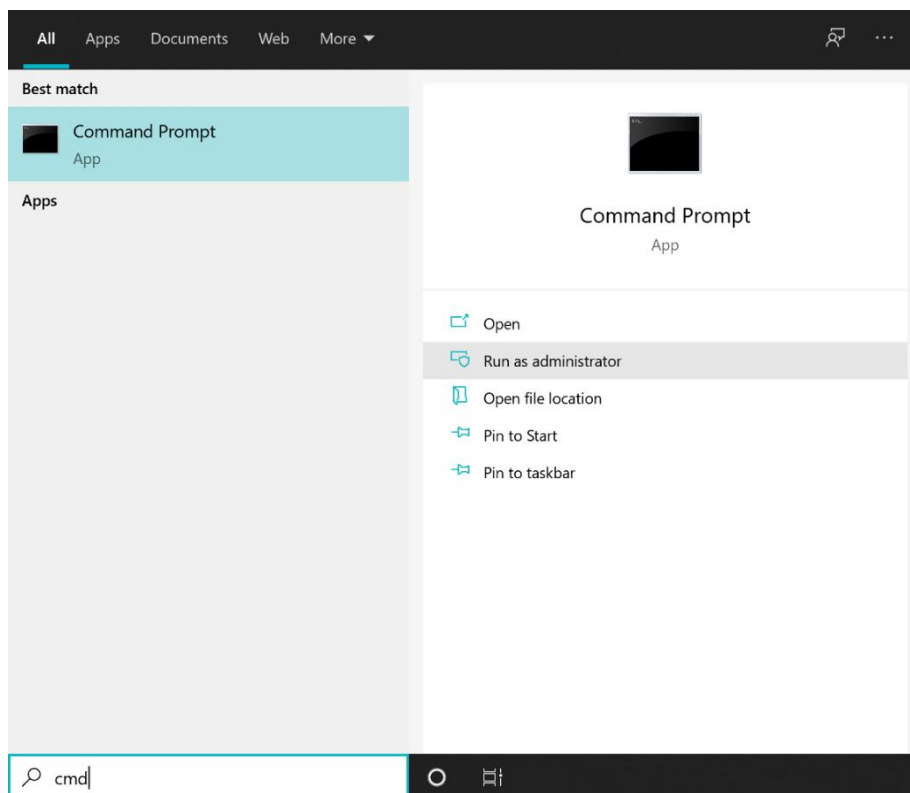

Figure 4: Command Prompt in Windows search results

When this is launched, the user is requested to confirm **User Access Control** for the **Command Prompt** to make changes to the device.
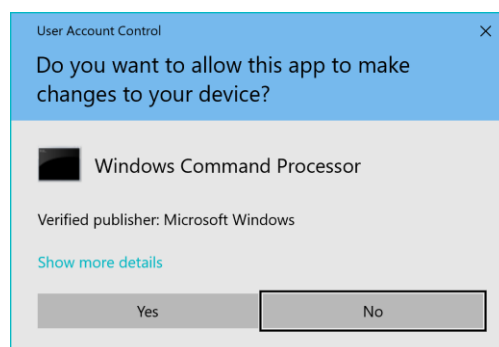

Figure 5: User Access Control question

When confirmed the Command Prompt window is titled **Adminstrator: Command Prompt** indicating the level of privileges. When using this dialog for the silent setup there is now no requirement to confirm the **User Account Control** question for setup of the software.
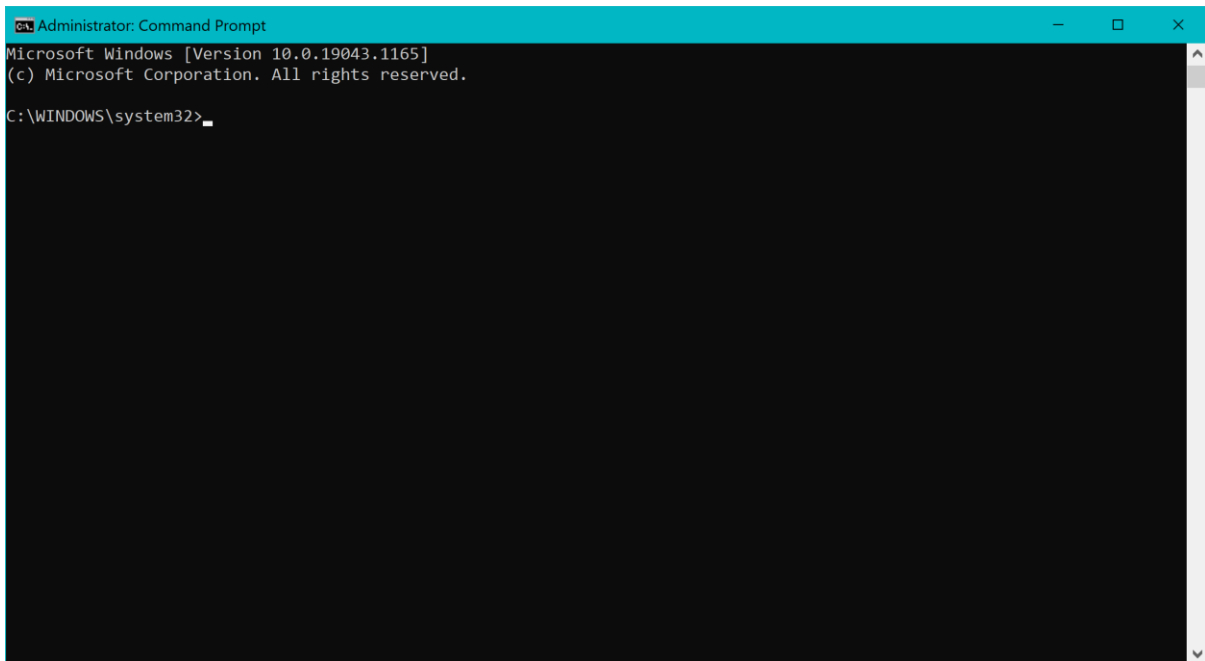

Figure 6: Command Prompt with Administrative privileges

Command Line Options to Silently Install eCADSTAR

For a complete silent installation the command line string will require both the **<setup exe option>** for silent setup **/s** and the **/v"<msiexec option>"** for silent setup **/qn** to be included.

Example command line string:

eCADSTAR_2021.1.0.118_setup.exe /s /v"/qn"

If the setup process requires a reboot, some of the silent setup options will do so without warning. Please see the Microsoft documentation for further details.

Command Line Options to Silently Uninstall eCADSTAR

For a complete silent uninstallation the command line string will require the **<setup exe option>** to uninstall **/x** and both the **<setup exe option>** for silent setup **/s** and the **/v"<msiexec option>"** for silent setup **/qn** to be included.

Example command line string:

eCADSTAR_2021.1.0.118_setup.exe /x /s /v"/qn"

If the setup process requires a reboot, some of the silent setup options will do so without warning. Please see the Microsoft documentation for further details.

Command Line Options to set eCADSTAR Network License Server

To setup **eCADSTAR** with the required licensing information during the setup process the following **<msiexec options>** should be included in the command line string.

- **LICENSETYPE**
- **HOSTNAME**
- **HOSTPORT**

Example command line string:

> **eCADSTAR_2021.1.0.118_setup.exe /v"LICENSETYPE=LICENSE_TYPE_NETANDNODE HOSTNAME=LicenseServer HOSTPORT=18500"**

Command Line Options when Using the CADSTAR Viewer Installer

When using the **eCADSTAR Viewer** installation executable the following command line properties can be defined for reference during the setup process.

Property	INSTALLDIR
Description	Defines the installation directory for the **eCADSTAR Viewer** application files to be located.
Default	**C:\Program Files\eCADSTAR\eCADSTAR Design Viewer 2021.1**
Example	**eCADSTAR_Viewer_2021.1.0.118_setup.exe /i /v"INSTALLDIR=D:\eCSViewer_2021"**

Property	ASSOCIATEFILETYPES_SCHEMATIC
Description	Defines if the **sdes** file type is to be associated with the **eCADSTAR Schematic Viewer** applications. To control if the **sdes** file type is not to be associated with the **eCADSTAR Schematic Viewer** then the property should be defined as **ASSOCIATEFILETYPES_SCHEMATIC=""**
Default	**ON**
Example	**eCADSTAR_Viewer_2021.1.0.118_setup.exe /i /v"ASSOCIATEFILETYPES_SCHEMATIC=\"\""**

Property	ASSOCIATEFILETYPES_PCB
Description	Defines if the **pdes** file type is to be associated with or the **eCADSTAR PCB Viewer** applications. To control if the **pdes** file type is not to be associated with the **eCADSTAR PCB Viewer** then the property should be defined as **ASSOCIATEFILETYPES_PCB=""**
Default	**ON**
Example	**eCADSTAR_Viewer_2021.1.0.118_setup.exe /i /v"ASSOCIATEFILETYPES_PCB=\"\""**

Command Line Options when Using the CADSTAR Network License Server Installer

When using the **eCADSTAR Network License Server** installation executable the following command line properties can be defined for reference during the setup process.

Property	INSTALLDIR
Description	Defines the installation directory for the **eCADSTAR Network License Server** application files to be located.
Default	**C:\Program Files (x86)\eCADSTAR\eCADSTAR Network License Server 2021.0**
Example	**Network_License_Server_2021.0.exe /i /v"INSTALLDIR=D:\eCS_License_Server_2021"**

Performing an Administrative Installation

The **eCADSTAR** setup executables can be used to perform an **Administrative Installation.** This is performed by using the following command line string:
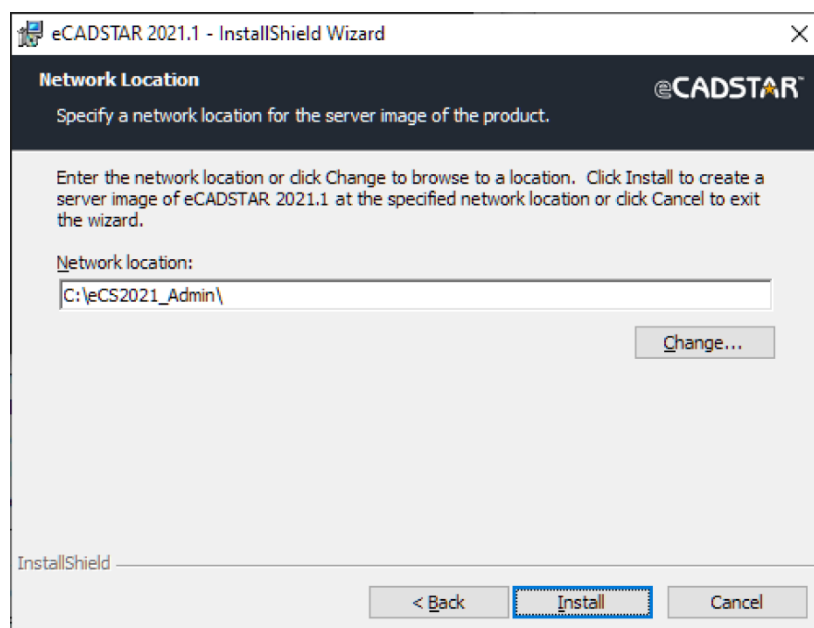
eCADSTAR_2021.1.0.118_setup.exe /a

Figure 7: Administrative Installation extraction

This launches the **eCADSTAR** setup to allow the user to choose a location, typically a centralized network drive, to extract the application files to. These files can then be referenced to perform client machine setup of **eCADSTAR**. The target directory for these files can also be defined in the command string:

eCADSTAR_2021.1.0.118_setup.exe /a /s /v"TARGETDIR=T:\eCS_Admin"

NOTE: The default location for the extraction of the **Administrative Installation** is to **C:**, take care when using the silent install option and ensure to define the TARGETDIR".
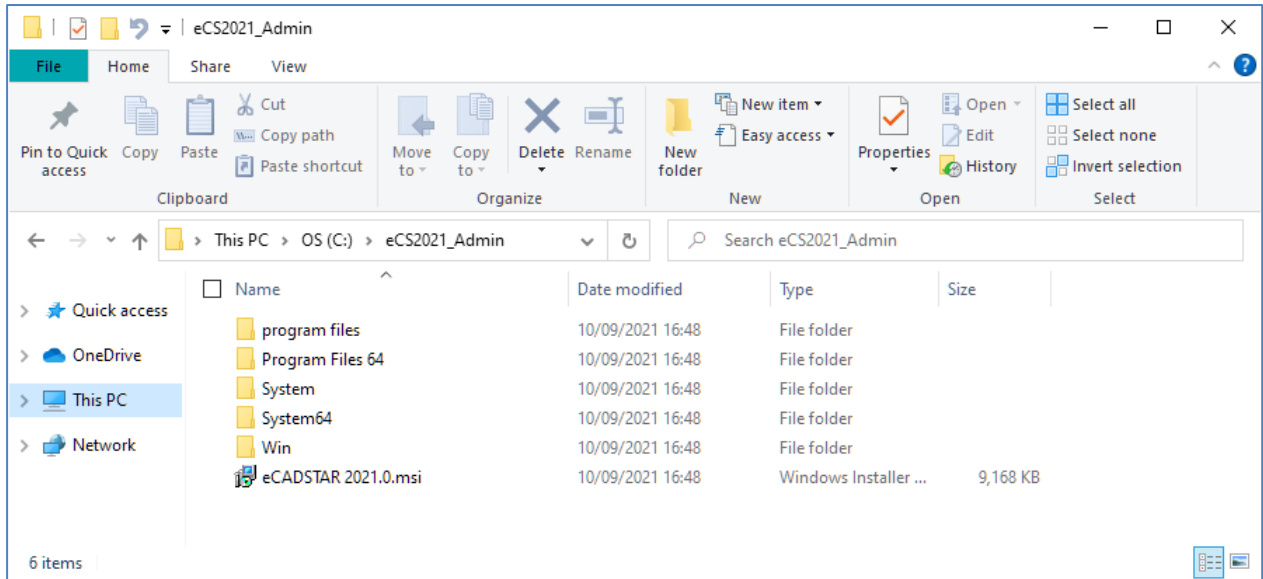
eCADSTAR Setup from the Administrative Installation Files

The following command line options can be used with the **msiexec** (Windows Installer) executable to perform setup options of **eCADSTAR** when referencing the files extracted from the **Administrative Installation**. The command line format should be entered as follows:

<msiexec exe> <msi setup option> <msi source> <msiexec options>

The msiexec Setup Options

Further details on the msiexec command line options can be found [here](#) on the Microsoft website.

Option	/i
Description	Launches the **eCADSTAR** setup to perform an install of the **eCADSTAR** software from the extracted files.
Example	**msiexec /i "eCADSTAR 2021.1.msi"**

Option	/x
Description	Launches the **eCADSTAR** setup to perform an uninstall of the **eCADSTAR** software.
Example	**msiexec /x "eCADSTAR 2021.1.msi"**

Option	/f
Description	Launches the **eCADSTAR** setup to perform a repair of the **eCADSTAR** software from the extracted files.
Example	**msiexec /f "eCADSTAR 2021.1.msi"**

The msiexec Options

For full descriptions of the options refer to the earlier section [The msiexec Options](#)

Option	**/qn**
Command Operation	**No User Interface**
Example	**msiexec /f "eCADSTAR 2021.1.msi" /qn**

Option	**/qn+**
Command Operation	**No User Interface with completion message**
Example	**msiexec /f "eCADSTAR 2021.1.msi" /qn+**

Option	**/qb**
Command Operation	**Basic User Interface**
Example	**msiexec /f "eCADSTAR 2021.1.msi" /qb**

Option	**/qb+**
Command Operation	**Basic User Interface with completion message**
Example	**msiexec /f "eCADSTAR 2021.1.msi" /qb+**

Option	**/qb!**
Command Operation	**Basic User Interface, no Cancel button**
Example	**eCADS msiexec /f "eCADSTAR 2021.1.msi" /qb!**

Option	**/qr**
Command Operation	**Reduced User Interface**
Example	**msiexec /f "eCADSTAR 2021.1.msi" /qr**

The msiexec Properties

- The **Property names** are case sensitive, so cannot be replaced with lower case characters.
  - Example: **INSTATLLDIR** not **InstallDir**
- Where the **Property values** contain space characters these values must be enclosed by double quotation **"** characters.
  - Example: **INSTALLDIR="C:\eCADSTAR 2021.1"**

For full descriptions of the properties refer to the earlier section [The Properties of the msiexec Options](#)

Property	INSTALLDIR
Example	**msiexec /i "eCADSTAR 2021.1.msi" INSTALLDIR=D:\eCS2021**

Property	USERDIR
Example	**msiexec /i "eCADSTAR 2021.1.msi" USERDIR=D:\eCS2021_userfiles**

Property	LICENSETYPE
Example	**msiexec /i "eCADSTAR 2021.1.msi" LICENSETYPE=LICENSE_TYPE_NETANDNODE**

Property	HOSTNAME
Example	**msiexec /i "eCADSTAR 2021.1.msi" LICENSETYPE=LICENSE_TYPE_NETANDNODE HOSTNAME=eCSlicserver**

Property	HOSTPORT
Example	**msiexec /i "eCADSTAR 2021.1.msi" LICENSETYPE=LICENSE_TYPE_NETANDNODE HOSTPORT=12380**

Property	ALLUSERS
Example	**Msiexec /i "eCADSTAR 2021.1.msi" ALLUSERS="" /qn+**

Property	ASSOCIATEFILETYPES
Example	**msiexec /i "eCADSTAR 2021.1.msi" ASSOCIATEFILETYPES=""**

Property	ASSOCIATEFILETYPES_SCHEMATIC
Example	**msiexec /i "eCADSTAR 2021.1.msi" ASSOCIATEFILETYPES_SCHEMATIC=-viewerMode**

Property	ASSOCIATEFILETYPES_PCB
Example	**msiexec /i "eCADSTAR 2021.1.msi" ASSOCIATEFILETYPES_PCB=-viewerMode**

Property	AUTOCHECKUPDATES
Example	**msiexec /i "eCADSTAR 2021.1.msi" AUTOCHECKUPDATES=""**

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