

CTC SOFTWARE

A SYMETRI COMPANY

CTC CIM Suites Installation and Configuration Guide

Includes:

**CIM Project Suite™
CIM Manager Suite™**

Contents

CTC CIM Suites Overview.....	3
General Security Requirements Summary.....	3
Civil 3D Workstations.....	3
Upgrading the Software.....	4
Licensing.....	4
Activating Cloud-Based Licensing.....	4
Free Trial Licenses.....	6
Purchased Cloud Shared Licenses.....	7
Managing Cloud Shared Licenses.....	7
Assigning Licenses to Groups and Users.....	8
Revoking a License.....	11
Cloud Shared Licensing Workstation Usage.....	11
Borrowing a Cloud Shared License.....	12
Returning a Borrowed Cloud Shared License Early.....	13
General Licensing Notes.....	14
Civil 3D Workstation Installation.....	15
Standard Interactive Installation Using the Single User Setup Program.....	15
Standard Interactive Installation Using the Multi-User Setup Program.....	20
Custom Installation (Using Command-Line Parameters).....	25
Silent Installation.....	25
Turning Off Specific Products (Suites) During Silent Installs.....	25
Deselecting Installation of the CTC Access Application.....	26
Preselecting Cloud Shared Licensing.....	26
Changing Which Suites are Installed After Initial Installation.....	27
Repairing an Existing Installation.....	28
Copying Tool Settings to Other Computers.....	29
Detecting the Version Installed.....	29
Digitally Signed Code.....	29
CTC Certificate Installer Utility.....	29
Post-Installation Configuration.....	31
Pre-selecting Cloud Shared Licensing.....	31
Civil 3D Workstation Uninstallation.....	32
Using Apps & features.....	32
Using Control Panel.....	34
Silent Uninstallation Using a Command.....	35

CTC CIM Suites Overview

IMPORTANT: There are two separate installers available for CTC CIM Suites: 1) the “single user” installer and 2) the “multi-user” installer. Both of these installers will be discussed in this document. The “single user” installer allows you to install and run the software without requiring you to have administrative privileges on the computer, however, only the user who ran the installer will see and can use the software. Other users will each have to install the software for themselves. The “multi-user” installer requires administrative privileges to install it on the computer, but then any user who logs into the computer can use the software.

IMPORTANT: All products available from CTC Software are available in “single user” and “multi-user” types, however **you must only use one of these types on any single computer**. You may not, for example, have the multi-user HIVE software installed and the single user CTC CIM Suites software installed on the same computer at the same time.

WARNING: Installing a multi-user installer will remove all single user installs for all users on the workstation. While a user that had the single user version installed will still see it appear in their Apps list, the single user software will get disabled by the multi-user installer.

The Civil products from CTC Software™ offer many utilities for enhancing the productivity of users of Civil 3D® software from Autodesk®. Civil 3D users typically launch these tools from within the Civil 3D software.

These tools are available in suite packages, and typically each of the suites contains both free tools and paid tools. Although written to function correctly with the international community in mind wherever possible, Civil Express Tools products are currently only tested on English USA versions of Civil 3D running on English USA versions of Windows.

The single setup program will install the tools for all versions of Civil 3D supported. For example, CTC CIM Suites 2023 will install tools for Civil 3D 2023, Civil 3D 2022, Civil 3D 2021, Civil 3D 2020 and Civil 3D 2019.

The installation and configuration of these suites is fairly straightforward. This guide will explain how the installation works, how to set up a network floating license server and how to change the configuration on the Civil 3D workstations after the suite has already been installed.

General Security Requirements Summary

The single user installer **DOES NOT** need to be run by someone who is logged in with administrative privileges on the computer to which the software is being installed. The multi-user installer **DOES** need to be run by someone who is logged in with administrative privileges.

Civil 3D Workstations

In accordance with Autodesk standards for add-ins, during the installation the user does not get to choose where the suites will be installed on their local hard drives.

For the single user installer, most files will be installed to the user’s personal “Roaming” folder in the %AppData% environment variable. This includes the add-ins themselves as well as common and support files. Typically, these are located under folders such as:

%AppData%\CTC Software\
%AppData%\Autodesk\ApplicationPlugins

For the multi-user installer, the Civil 3D add-in files are located within the ProgramData folder:

%ProgramData%\Autodesk\ApplicationPlugins

While the remainder of the files are located within the ProgramData folder:

%ProgramData%\CTC Software

For either installer, where application-wide settings need to be stored such that they are applicable to any users that login to the computer, these will be stored in the *C:\Users\Public* folder, typically under:

C:\Users\Public\CTC Software

Upgrading the Software

When upgrading a workstation to a new release, typically manually uninstalling an old version is NOT required. Running the latest setup is all that normally should be needed. It will replace the previous version with the new version.

Licensing

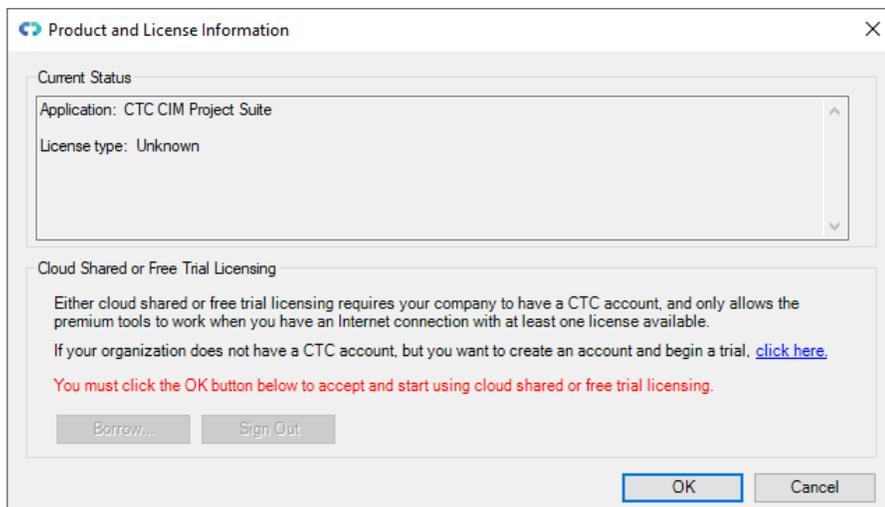
The free tools have light background colors on the ribbon button icons, and have no licensing requirements. The tools with dark background colors on the ribbon button icons do require licensing, but are available for a free trial when the first premium tool within the suite is used the first time.

IMPORTANT: Any licensing errors that occur will be logged to:

C:\Users\Public\CTC Software\License Settings\LicensingErrors.txt

Activating Cloud-Based Licensing

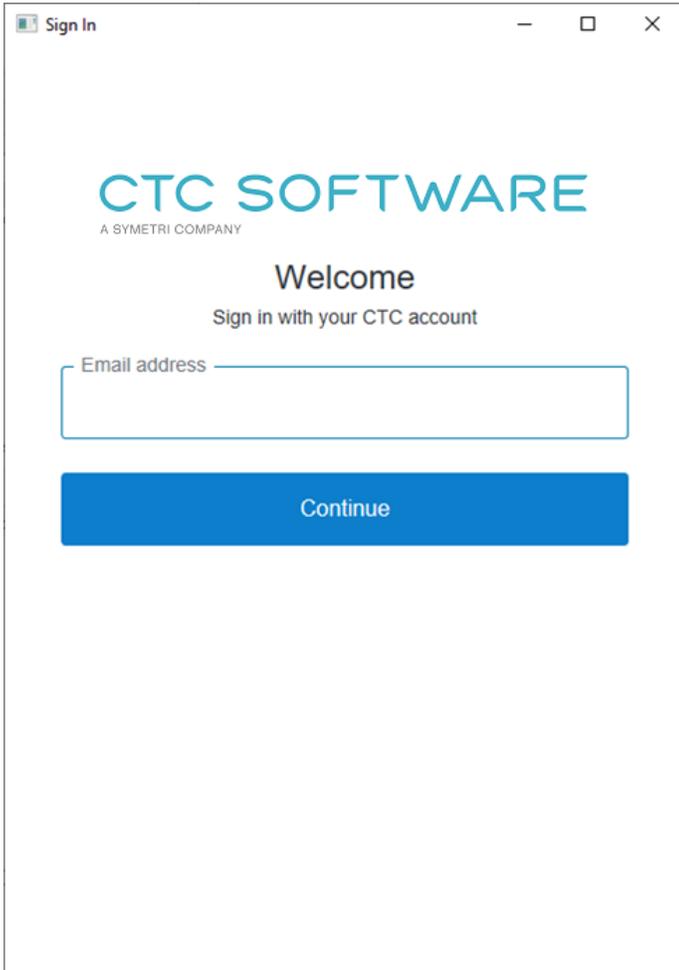
Unless the licensing is pre-configured during installation (see below), the first time a user launches one of the tools that require licensing they will see the *Product and License Information* dialog:



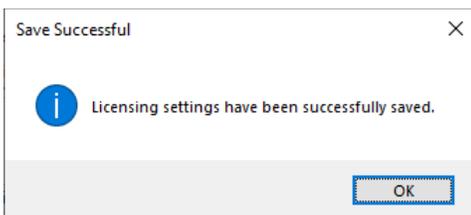
The user guide that comes with the suite contains a section called *License Activation and Management* which discusses how the licensing works for the user, including the use of this dialog (also discussed below).

CTC Software products support only cloud-shared licensing, and also free trial licenses that use CTC's cloud licensing engine. The user must click the OK button to activate the cloud licensing and acknowledge using a CTC cloud account.

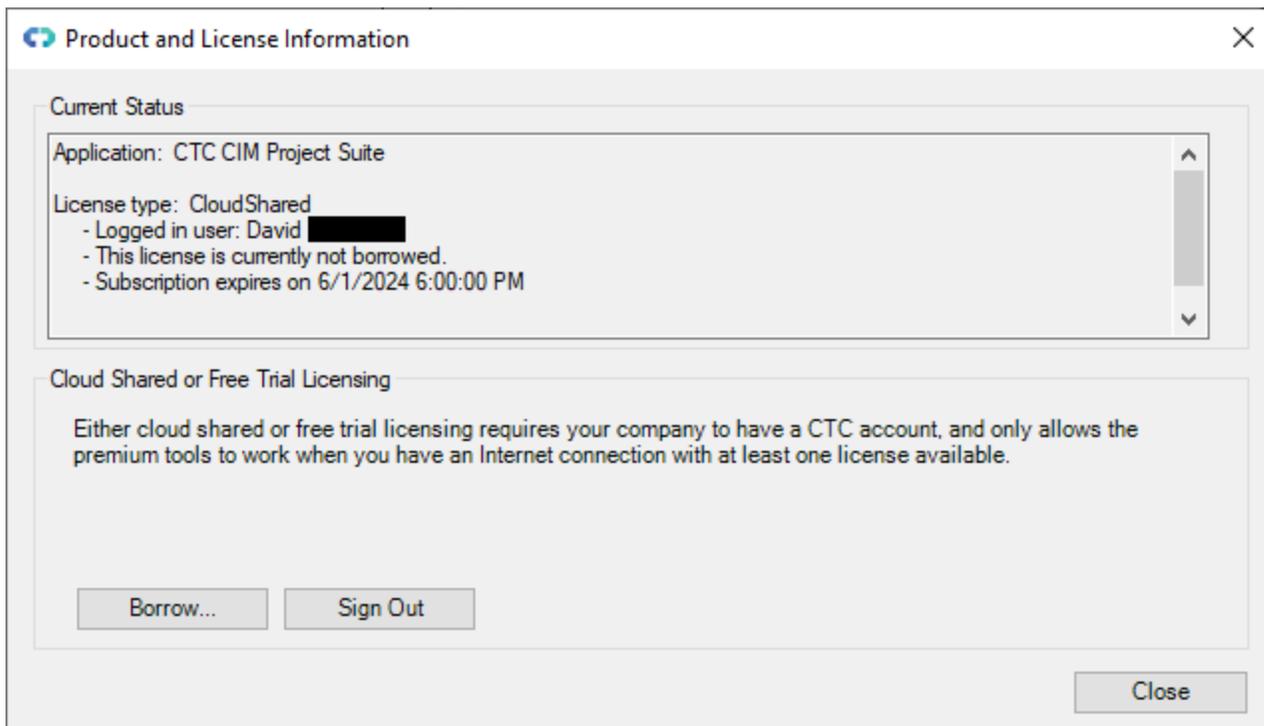
Once they click the OK button, they may be asked to login if they aren't already logged in from using another CTC product:



Either way, once the user has logged in, the product will be configured for cloud shared licensing:



and the licensing screen will be updated to show that:



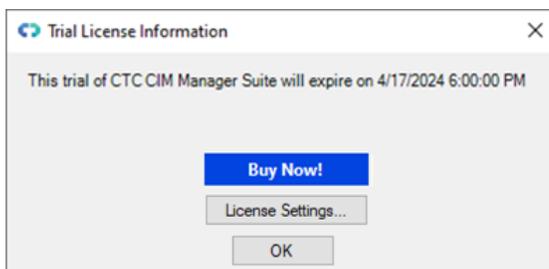
At this point, the user may borrow a license for offline use (if permitted by the administrator). They may also Sign Out from the cloud licensing system in case a different user needs to sign in on this computer.

Free Trial Licenses

Trial licenses allow you to use the software (including premium tools) without any special licensing for a limited time, typically 14 days. The software will generally be fully functional during the trial, with a few exceptions where functionality will be limited during a trial.

Any Internet connection and a CTC account is required to use trial licensing.

If a trial license is being used, the first time within each Civil 3D session when the first tool from a suite is launched which requires licensing, a dialog like the following is displayed:



Clicking the “License Settings...” button will display the *Product and License Information* dialog, shown above.

Purchased Cloud Shared Licenses

Cloud shared licensing allows multiple users to share licenses. For example, if you have 20 users but only a maximum of 5 of those 20 need to use the software at the same time, you may choose to purchase only 5 cloud shared licenses.

Any Internet connection is required to use cloud shared licenses.

Only the maximum number of licenses purchased for a software product can be in use at the same time by different users on different computers. When one extra user tries to run the software, they are informed that no licenses are available, and they will have to try to run the software again later after another user has closed all the tools for a product (suite) and the other user's license is then automatically returned to the cloud license server.

A user never uses up more than one license for a product while on a single computer. For example, if the user has Civil 3D 2023 running and starts a premium tool that gets a license for "CIM Project Suite" from the license server, and while that tool is running they start up another Civil 3D session *on that same computer* – even for a different version of Civil 3D – and launch another premium tool from the same suite, only 1 license will still be considered in use by that user. The license is not returned to the server until all instances of the premium tools from that suite have been shut down for all instances of Civil 3D that are running on that computer for that user.

If, however, the user leaves the tool running which has checked out a license and they go to another computer and start up another licensed tool for the same product, then another license will be retrieved on that second computer, and the user will then be consuming **two** licenses. So licenses are specific to the *combination* of user, computer and CTC product.

If the administrator allows it, a user may "borrow" a license from the CTC cloud server for a fixed number of days. When a license is borrowed, it is temporarily locked to the computer of the user that borrowed the license. This allows that user to use the software when not connected to the Internet, which can be useful, for example, if they are leaving to go on a business trip. However, it also temporarily removes one of the available floating licenses for all the remaining users to share.

The license will automatically be available again on the CTC cloud server even if the user who borrowed it doesn't connect to the CTC cloud server after the period in which it was borrowed comes to an end. The license will also stop working on their workstation after the period in which it was borrowed comes to an end, even if they don't connect to the license server via an Internet connection.

IMPORTANT: A borrowed license CAN NOT be forcibly returned to the CTC cloud server. It will be automatically available on the CTC cloud server when the borrow time has expired, or when the user who borrowed it connects to the CTC cloud server and manually returns the borrowed license from their computer early.

CTC provides the license management in CTC's cloud, and you can manage your license usage from the CTC portal. For example, you control who is allowed to use each product (suite), you can see who is currently using licenses, and you can even revoke a non-borrowed license from a user. This can be useful if another user urgently needs a license. You can also see who has borrowed a license, and when that borrowed license will expire. This is explained in the next section.

Managing Cloud Shared Licenses

CTC Products can be managed in the CTC Software portal (<https://ctcsoftware.com/portal/licensing>). All of the licenses owned by the organization will be listed under the 'Licensing' tab. A minimum role of either **Organization Admin** or **License Admin** must be assigned to anyone who will be managing licenses for the organization.

NOTE: Licenses will not be available to any of the organization users until they have been “assigned” in the portal. This does not include free tools in the product. Free tools will be always available, regardless of licensing.

Users must configure their product on their workstation to use Cloud Shared Licensing before the licenses will be available to them. This can be done using the “Product and License Information” dialog, or by using configuration files (discussed below).

In the above example, this organization owns 5 seats of CIM Project Suite and 2 seats of CIM Manager Suite. This means that at any given time, a maximum of 5 users can run a licensed tool from CIM Project Suite simultaneously, regardless of how many users have been assigned beyond the count purchased. Likewise, only two can use CIM Manager Suite licensed tools at the same time.

This means that if 10 users have been assigned a CIM Project Suite license, only 5 users can use licensed tools in the product at the same time. If a 6th simultaneous user attempts to use a licensed tool in CIM Project Suite, they will be alerted that no license is available at that time.

Assigning Licenses to Groups and Users

Licenses can be assigned directly to a user account, or to a group. Assigning to groups may be a much easier to manage which users have access to which licenses.

Begin by expanding one of the product rows and clicking on ‘Assign Licenses:’

CTC CIM Project Suite 5 licenses -

ASSIGN LICENSES

Licenses Owned

Serial Number	License Type	License Status	Start Date	Expiration Date	License Count	Auto Renew	Registered Name
9C73AD3FFFD32C9ABA32	PURCHASED	Active	20th April 2022	20th April 2023	5	<input type="checkbox"/>	N/A

Showing 1 to 1 of 1 entries

The Group and User selection form will present assignments that may have already been made in the list below the selector. This can also be used to remove assignments by clicking on the trashcan icon.

The first tab presents group assignments. The second tab presents user assignments. To add to the list of assignments, click in the selector and choose items from the selection list.

Assign Licenses ✕

GROUPS
USERS

Select

Name	Description	
Everyone	All corporate users of HIVE	
Org Admin		

Showing 1 to 2 of 2 entries
Previous 1 Next

Assign Licenses



The screenshot shows the 'Assign Licenses' interface. At the top, there are two tabs: 'GROUPS' (active) and 'USERS'. Below the tabs is a search bar with the text 'Select' and a red arrow pointing to it. To the left of the search bar are two pills: 'Project Managers' and 'Dynamo Power Users'. Below the search bar is a list of groups: 'Architecture', 'BIM Admin', 'BIM Manager', 'CMS Admin', 'dmtptest01', and 'Electrical'. The list is scrollable, as indicated by a vertical scrollbar on the right.

Hint: type the first few characters of a name to filter the list.

To remove a group or user during the add process from the temporary list, click the X on the right of the “pill.”

Once satisfied with the selections, click the SAVE button to update the assignments.

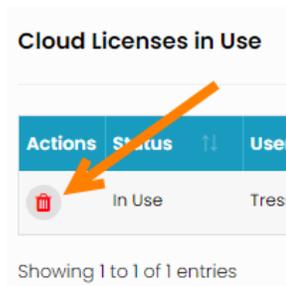
Revoking a License

It may be necessary to temporarily force a checked out license that is currently in use on a workstation back into the pool. This can be used to ensure that a license is available to a user whose task may be urgent.

NOTE: Revoking a license will be effective immediately. The user will no longer be able to continue using paid tools until a license becomes available again. They will get a message telling them they no longer have a license. While they will not be able to continue doing useful things with the software, it should allow them to save their work, such as any settings they may have changed.

Expand the product row for the CTC suite to see the list of cloud licenses in use.

Find the user in question and click the trashcan icon.



Cloud Shared Licensing Workstation Usage

If your organization has set up access to cloud shared licensing, all that is needed to use the tools is to configure it and log in using a CTC Software user account.

Configuring the workstation tools can be done either by deploying a configuration file (discussed below), running the installer with command-line parameters (also discussed below) or by interactively using the *Product and License Information* screen.

This screen will appear the first time a premium tool is used, or can be accessed from within a premium tool using the Suite Licensing drop-down menu choice.

The *Product and License Information* screen for first time use was shown above.

When successfully applied, the status at the top of the screen will update to show:

- The product name
- Who is logged in
- Whether the license is a trial or purchased license
- The trial or subscription expiration date
- Whether or not the license is currently borrowed, and if borrowed, the borrow expiration date

Borrowing a Cloud Shared License

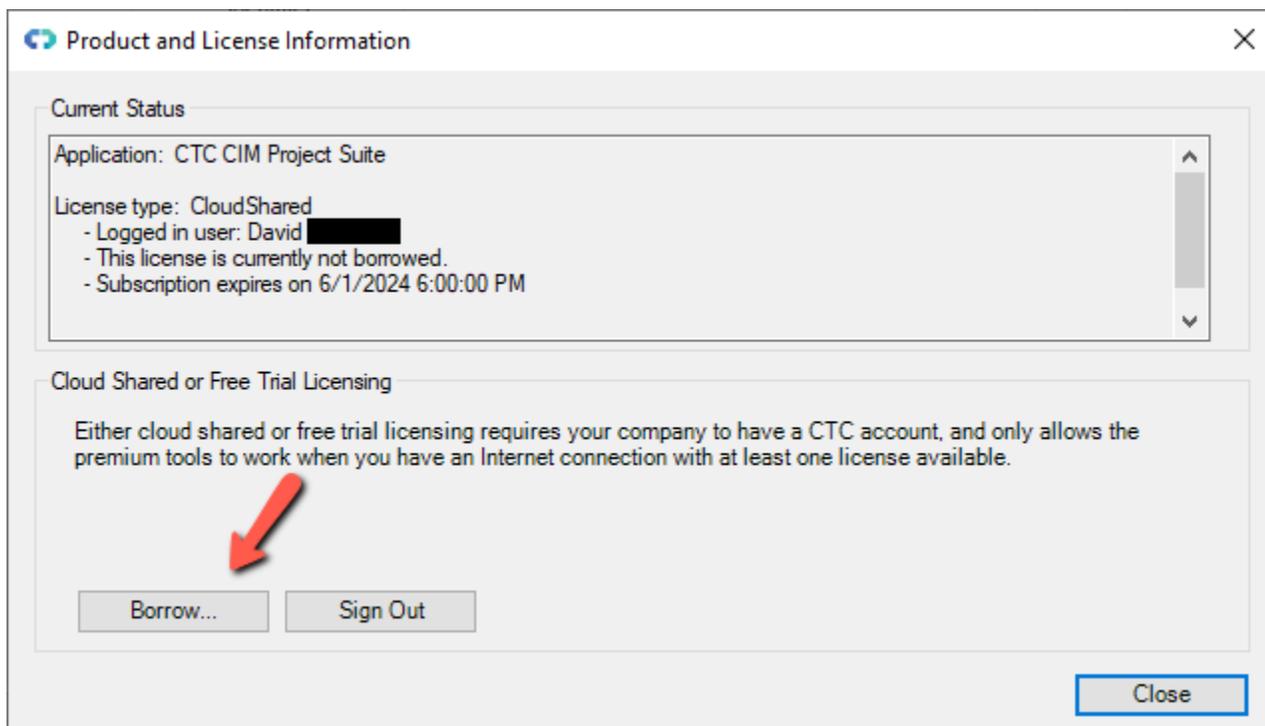
If a license is needed in anticipation of being disconnected from the Internet, borrowing a license can ensure that the CTC tools are available for use when offline.

IMPORTANT: For normal use of the software, where you have a standard Internet connection, you DO NOT need to borrow a license. Borrowing a license is normally only needed when you know you will need to use the software at a time when you won't have a reliable Internet connection. While you have a license borrowed, that is one less shared license available to all other users.

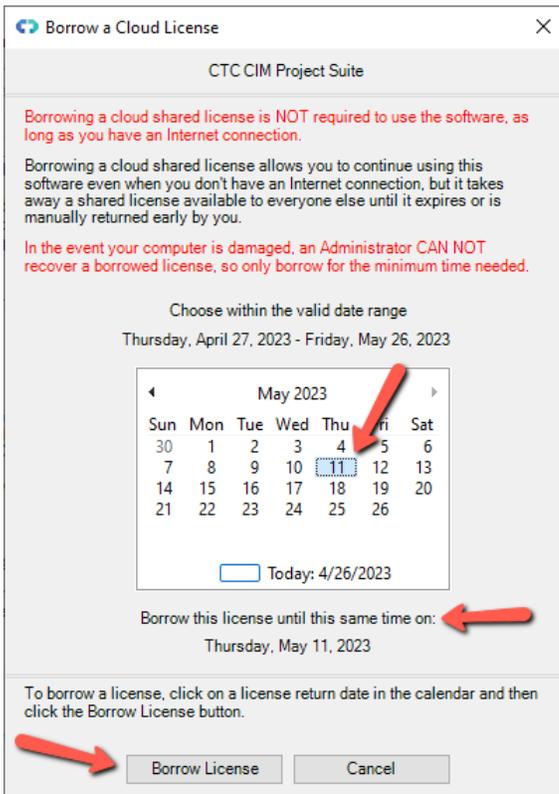
NOTE: Borrowing is only available for purchased cloud shared licenses. **Borrowing is not available for trial licenses.**

IMPORTANT: In the event your computer is lost, stolen or damaged (e.g. a hard drive crash) **an administrator CAN NOT recover a borrowed license.** In that case, the license will be unavailable to all users until the borrow period has naturally expired. *As such, you only want to borrow a license for the barest minimum amount of time needed.*

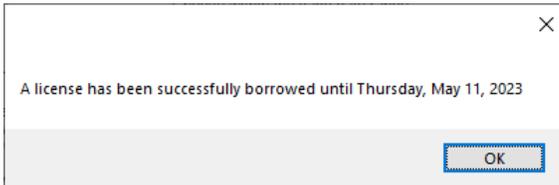
Begin by opening the *Product and License Information* screen from either the main pulldown menu of a premium tool, or from the Suite Settings add-in. From here, click the 'Borrow...' button to begin the process of choosing the length of time to borrow a Cloud Shared license.



The date selector should appear:

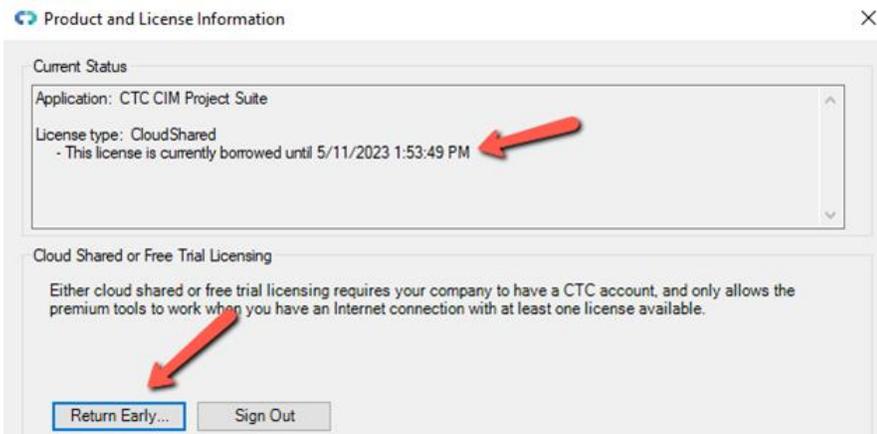


Confirm the date selection and click the *Borrow License* button. A success message should appear.

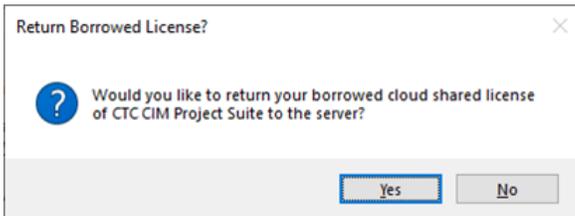


Returning a Borrowed Cloud Shared License Early

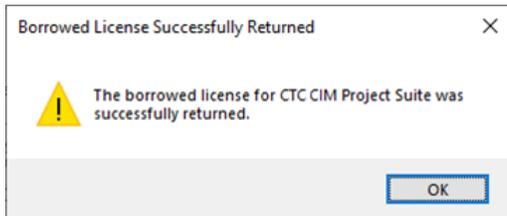
To return the license early, in the *Product and License Information* form, find the *Return Early...* button and click it.



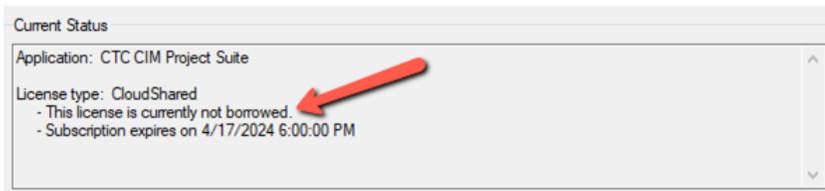
A prompt will appear confirming that the license should be returned.



Click the Yes button, then you should see:



The license status should now show a 'not borrowed' message.



General Licensing Notes

The user guide that comes with each suite contains a section called *License Activation and Management* which discusses how the licensing works from the user's perspective, including going into more detail about the use of the *Product and License Information* dialog, and how to do things like borrowing licenses and returning them early.

The section below called *Pre-selecting Cloud Shared Licensing* explains in detail how license configuration settings are stored in a file on the workstations, and how they can be modified after the suite has been installed by deploying a configuration file to the workstation.

The CTC Software suite system allows the client workstations to be installed and also configured for licensing silently during installation, using a variety of methods, including command-line parameters provided to the MSI installer packages.

This is explained in detail later in this document, in the section called *Custom Installation (Using Command-Line Parameters)*

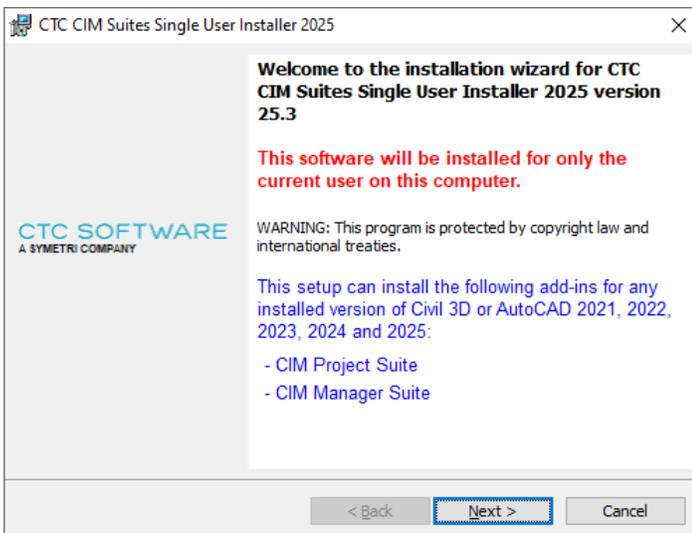
Civil 3D Workstation Installation

To perform an installation, first download the setup program zip file from <https://www.ctcsoftware.com/>. Once the download is complete, unzip the files.

Standard Interactive Installation Using the Single User Setup Program

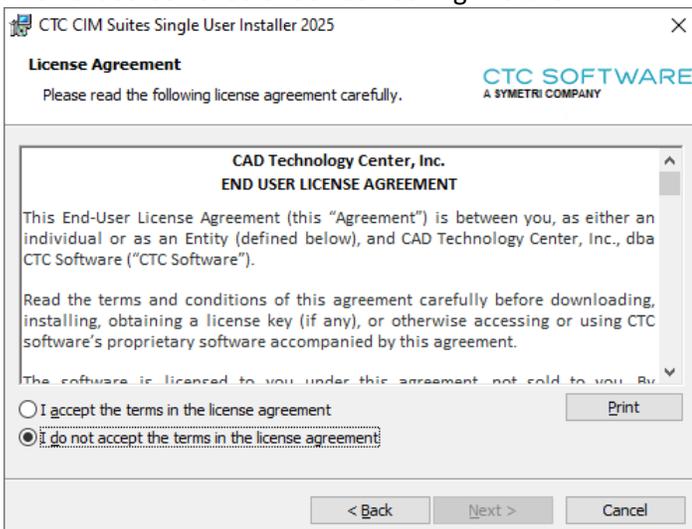
A standard installation simply involves running the interactive setup program, accepting all of the default values, and then starting up Civil 3D. This setup can be installed by any user, whether they have Administrative privileges or not, but it will only install the software for that one user. To install the software for multiple users on the same computer requires Administrative privileges, requires using the Multi-User setup program instead, and is discussed in the next section.

Double-click the installation **CTCCIMSuitesSingleUserSetup.msi** file to begin the installation process. First, you should see a screen that looks like this:



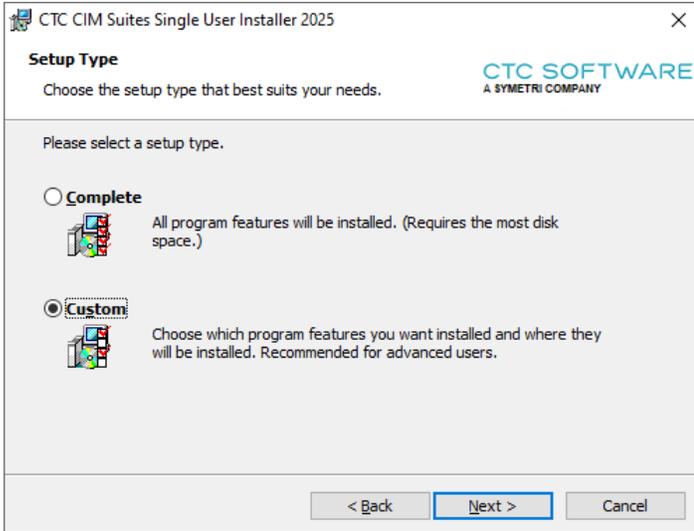
This is a standard welcome screen. Click the "Next" button to proceed.

The next screen should look something like this:

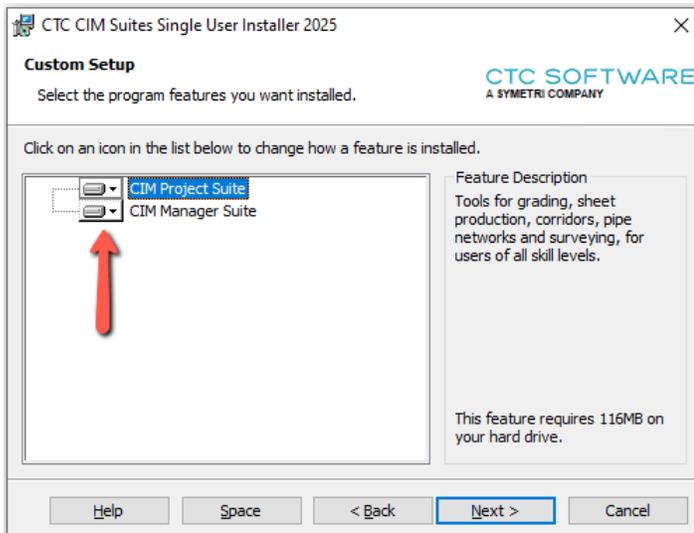


This is the license agreement screen. In order to be able to move forward with the installation, you must read the software license agreement and then click the “I accept the terms in the license agreement” option. You will then be allowed to click the “Next” button, which needs to be done to proceed with the installation.

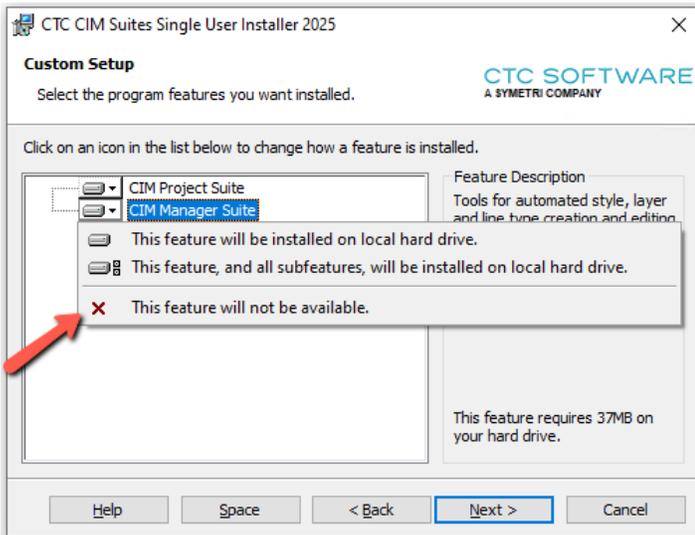
The next screen lets you control which components are installed. If you choose the “Complete” option, all the suites in this setup will be installed for you. If you choose the “Custom” option, you will have the ability to turn on or off each suite, as desired:



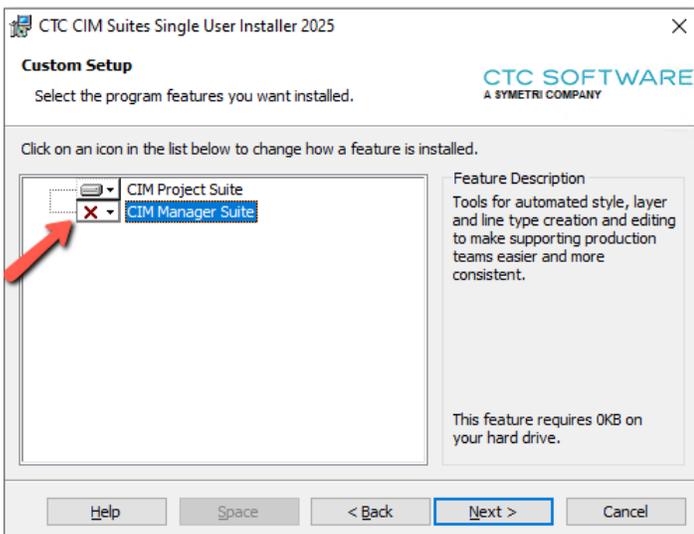
When the Custom option is selected, clicking the Next button, by default, as is the case with the normal “Complete” option, we can see that all products will be installed:



To turn off a product, click the dropdown button next to it and select the “This feature will not be available” choice. For example, if we want to turn off (not install) the CIM Manager Suite product, we would click the down arrow button next to it (seen above), then:

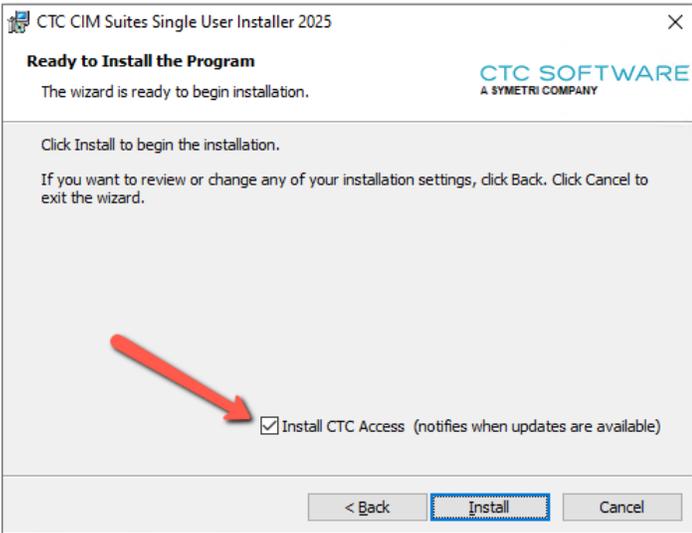


Once “This feature will not be available” choice is selected, CIM Manager Suite will be marked as not to be installed.



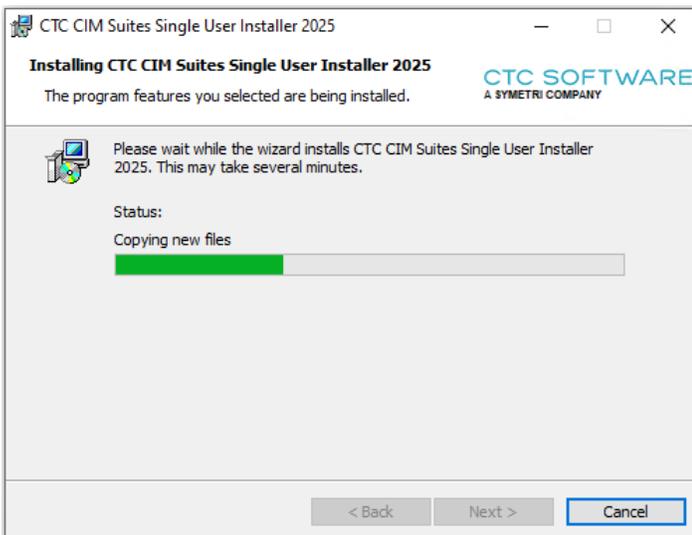
Next is the standard confirmation screen. It provides one last chance to cancel this process without anything being installed. It also shows you the option to install the *CTC Access* application.

The *CTC Access* application is a separate tool which will alert the user when new versions of applications from CTC Software become available, and will make it easy for the user to download those updates.



IMPORTANT: Uninstalling CTC CIM Suites will not uninstall the *CTC Access* application. It must be uninstalled separately.

Click the “Next” button to proceed. The screen during the actual installation should look like this:



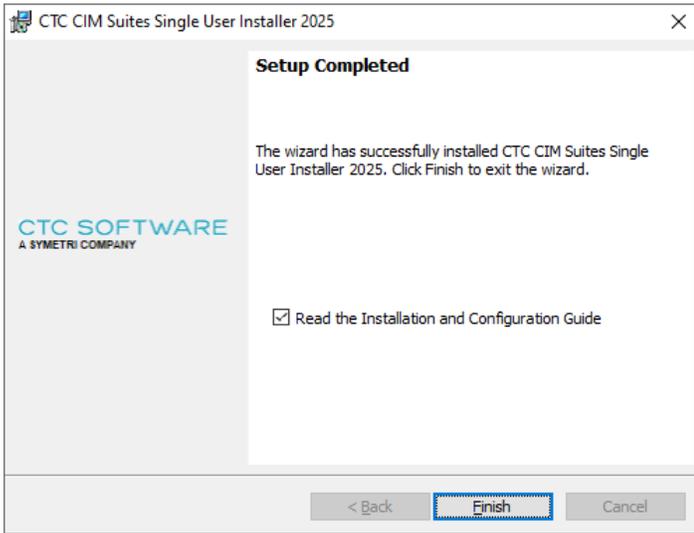
A file called CTCInstallLog.txt can be found in the installation folder once the setup completes.

Single user installer example: %AppData%\CTC Software\CTC CIM Suites

Multi-user installer example: %ProgramData%\CTC Software\CTC CIM Suites

Checking that log can be useful when verifying something like a silent installation (discussed below) worked correctly.

When the installation is complete, the final screen should look like this:



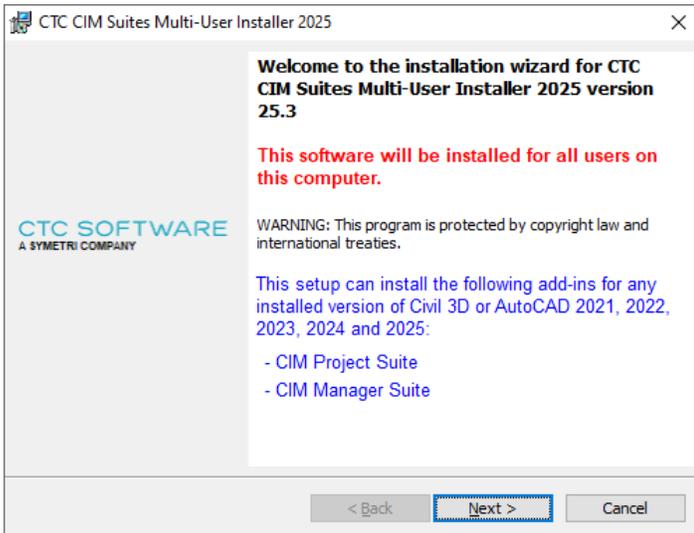
Click the “Finish” button to complete the installation process.

If the checkbox option is selected, this document will be displayed.

Standard Interactive Installation Using the Multi-User Setup Program

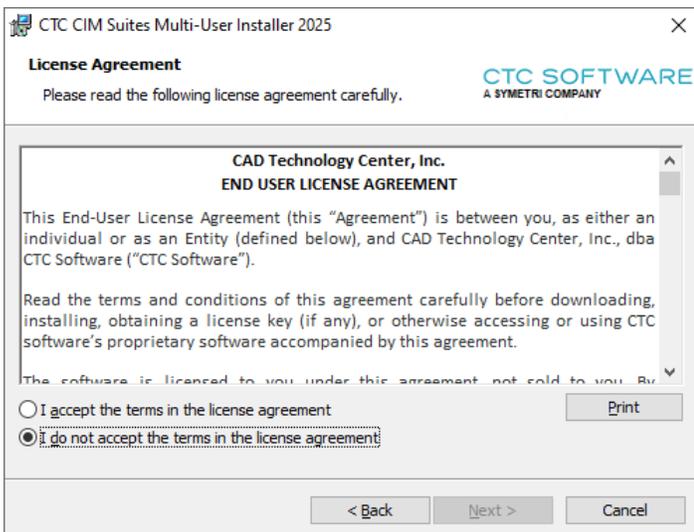
A standard installation simply involves running the interactive setup program, accepting all of the default values, and then starting up Civil 3D. **This setup can only be installed if the user has Administrative privileges on the computer.** It will install the software for all users that login to the computer. To install the software without requiring Administrative privileges on the computer requires running the Single User installer instead, which is discussed in the previous section. That installer will only install the software for the current user who runs that setup.

Double-click the installation **CTCCIMSuitesMultiUserSetup.msi** file to begin the installation process. First, you should see a screen that looks like this:



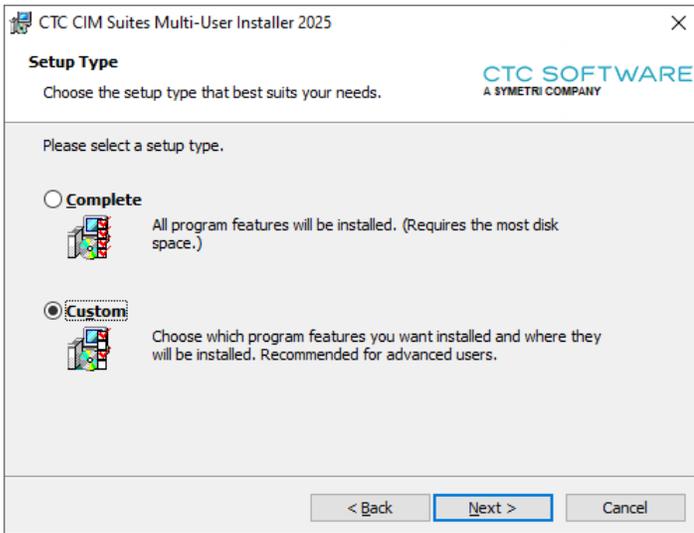
This is a standard welcome screen. Click the "Next" button to proceed.

The next screen should look something like this:

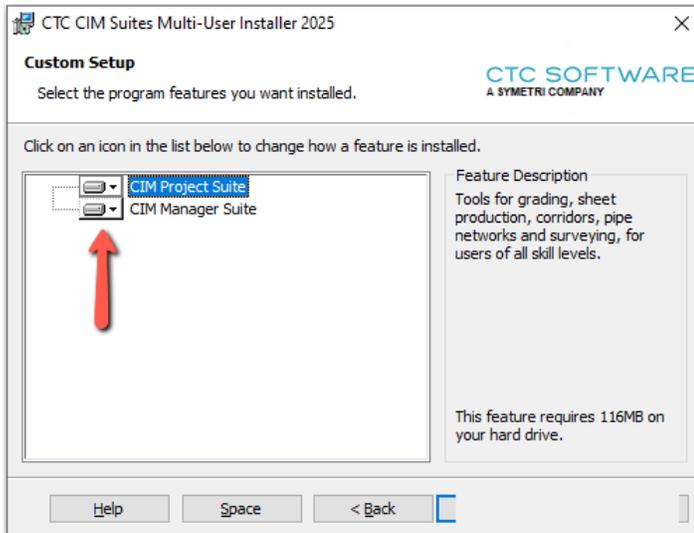


This is the license agreement screen. In order to be able to move forward with the installation, you must read the software license agreement and then click the "I accept the terms in the license agreement" option. You will then be allowed to click the "Next" button, which needs to be done to proceed with the installation.

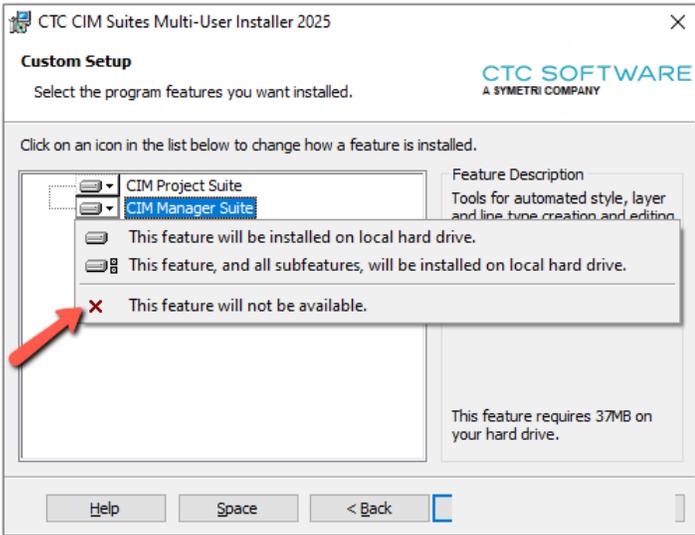
The next screen lets you control which components are installed. If you choose the “Complete” option, all the suites in this setup will be installed for you. If you choose the “Custom” option, you will have the ability to turn on or off each suite, as desired:



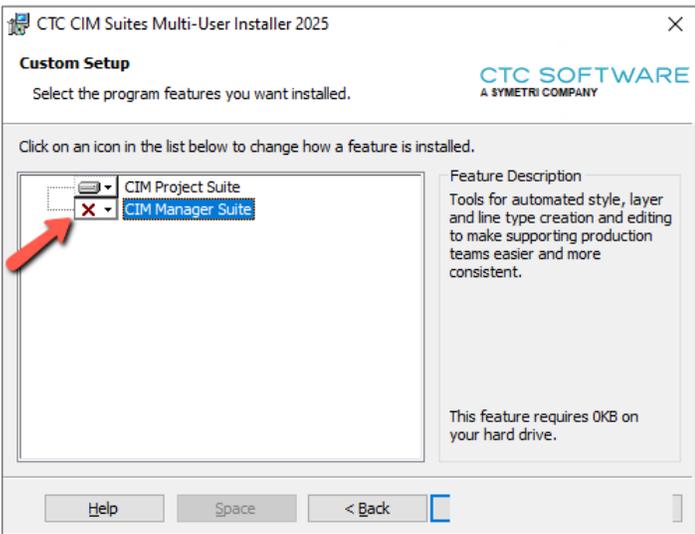
When the Custom option is selected, clicking the Next button, by default, as is the case with the normal “Complete” option, we can see that all products will be installed:



To turn off a product, click the dropdown button next to it and select the “This feature will not be available” choice. For example, if we want to turn off (not install) the CIM Manager Suite product, we would click the down arrow button next to it (seen above), then:

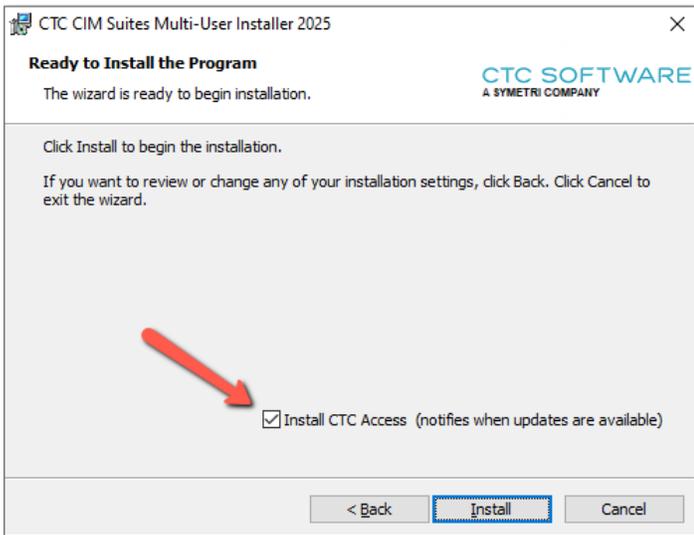


Once “This feature will not be available” choice is selected, CIM Manager Suite will be marked as not to be installed.



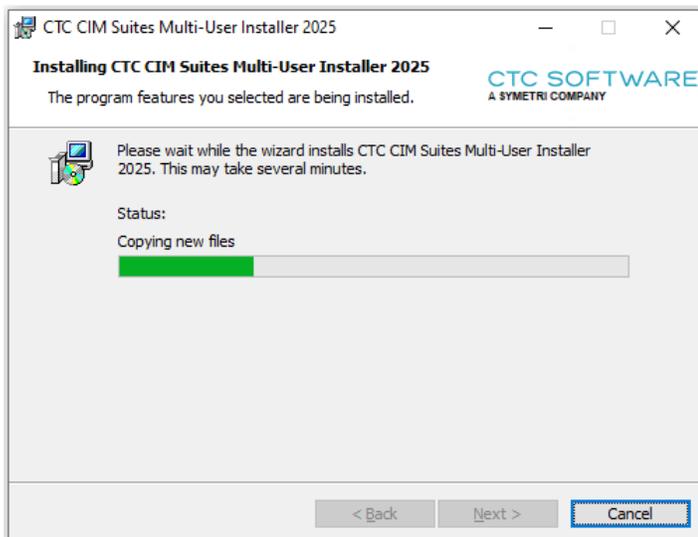
Next is the standard confirmation screen. It provides one last chance to cancel this process without anything being installed. It also shows you the option to install the *CTC Access* application.

The *CTC Access* application is a separate tool which will alert the user when new versions of applications from CTC Software become available, and will make it easy for the user to download those updates.



IMPORTANT: Uninstalling CTC CIM Suites will not uninstall the *CTC Access* application. It must be uninstalled separately.

Click the “Next” button to proceed. The screen during the actual installation should look like this:

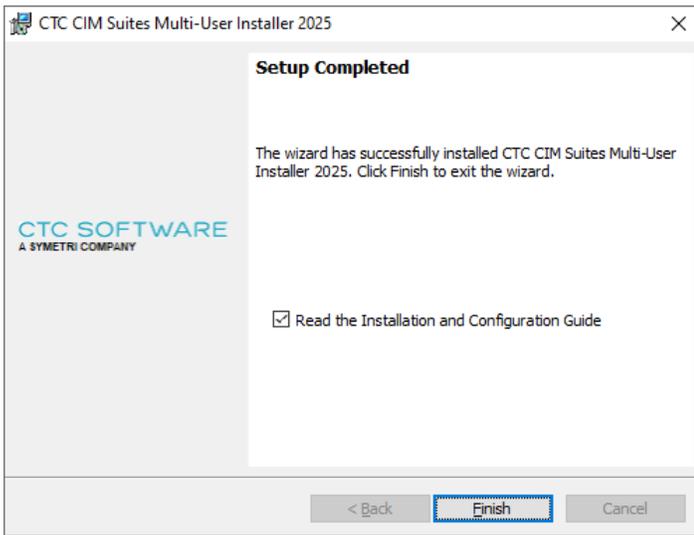


A file called CTCInstallLog.txt can be found in the installation folder once the setup completes. For this installer, it's located in this folder:

%ProgramData%\CTC Software\CTC CIM Suites

Checking that log can be useful when verifying something like a silent installation (discussed below) worked correctly.

When the installation is complete, the final screen should look like this:



Click the “Finish” button to complete the installation process.

If the checkbox option is selected, this document will be displayed.

Custom Installation (Using Command-Line Parameters)

IMPORTANT: For any installer action to be successful, you must make sure ALL running instances of Civil 3D and any AutoCAD product are shut down. Any running instance of Civil 3D or an AutoCAD product for this user may prevent the action from working correctly.

Silent Installation

The msi installer for the Civil 3D workstations support performing silent installations. A silent installation does not show any dialogs on the screen during the install.

IMPORTANT: While a non-silent (interactive) installation of CTC CIM Suites will cleanly remove the old conflicting products which had separate installers (e.g. CTC CIM Project Suite, CTC CIM Manager Suite) this is not the case for a silent installation. If you plan to do a silent installation of CTC CIM Suites, CTC Software **strongly** recommends uninstalling any old conflicting products first. While if you are an administrator on the computer when the **silent** installation of CTC CIM Suites is run, it will render the old products inactive, they will remain on the Apps list for the computer. It is much cleaner to uninstall the old products first before installing CTC CIM Suites silently. The old products can be uninstalled silently as well. Uninstalling old products is not necessary if simply upgrading to a newer version of the same product.

A silent installation is accomplished by using the command-line parameter: /q

For example, the command to install the software silently would be one of these:

Single user installer example: `msiexec /i CTCCIMSuitesSingleUserSetup.msi /q`

Multi-user installer example: `msiexec /i CTCCIMSuitesMultiUserSetup.msi /q`

IMPORTANT: By choosing to do a silent installation, you are automatically agreeing to the software license agreement.

The silent installation may take a minute or so to complete.

Turning Off Specific Products (Suites) During Silent Installs

By default, as is consistent with the interactive installer, all suites will be installed when doing a silent installation. However, individual products (suites) can be turned off during silent installs as well, using additional command-line parameters.

Product to Not Install	Parameter
CIM Project Suite	deselect_cps=1
CIM Manager Suite	deselect_cms=1

So for example, if during the silent installation we want to not install CIM Manager Suite, we would give a command like the following:

Single user installer example: `msiexec /i CTCCIMSuitesSingleUserSetup.msi /q deselect_cms=1`

Multi-user installer example: `msiexec /i CTCCIMSuitesMultiUserSetup.msi /q deselect_cms=1`

IMPORTANT: If you want to silently add or remove a suite after the software has already been installed, **you must silently uninstall the software and silently reinstall it with different command-line arguments**. Running a repair or re-

running the installer with a command-line like that above, but with different parameters, will NOT change which suites are installed.

Deselecting Installation of the CTC Access Application

By default, the *CTC Access* application will be installed during this installation process. The *CTC Access* tool provides alerts to users when new versions of applications from CTC Software become available, and make it easy for the user to download those updates. You can prevent this application from being installed when running this installer by providing the following command line parameter: `installctcaccess=0`

For example:

Single user installer example: **`msiexec /i CTCCIMSuitesSingleUserSetup.msi /q installctcaccess=0`**

Multi-user installer example: **`msiexec /i CTCCIMSuitesMultiUserSetup.msi /q installctcaccess=0`**

Preselecting Cloud Shared Licensing

If you want to pre-configure the software to use cloud shared licensing (or a cloud-based trial license), the following command-line parameter can be used:

`cloudsharedlicensing=true`

For example:

Single user installer example: **`msiexec /i CTCCIMSuitesSingleUserSetup.msi /q cloudsharedlicensing=true`**

Multi-user installer example: **`msiexec /i CTCCIMSuitesMultiUserSetup.msi /q cloudsharedlicensing=true`**

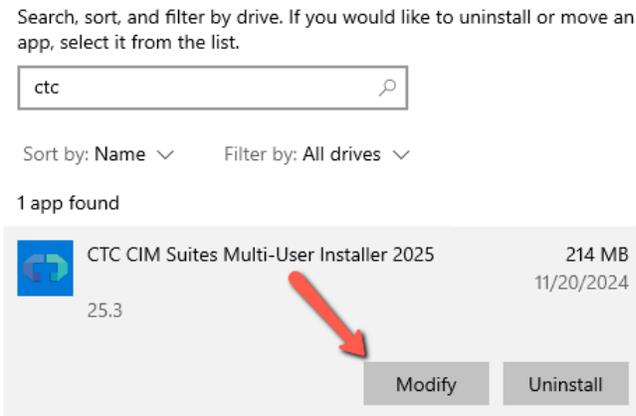
When this is pre-selected, the user will not be prompted to activate cloud shared licensing. At most they will be asked to login before they can continue using a premium tool.

Changing Which Suites are Installed After Initial Installation

IMPORTANT: You cannot change which suites are installed after initial installation using a silent command-line execution, for example from a script. To silently change which suites are installed after initial installation, you must silently uninstall the software, then silently re-install it with the proper command-line arguments, described above.

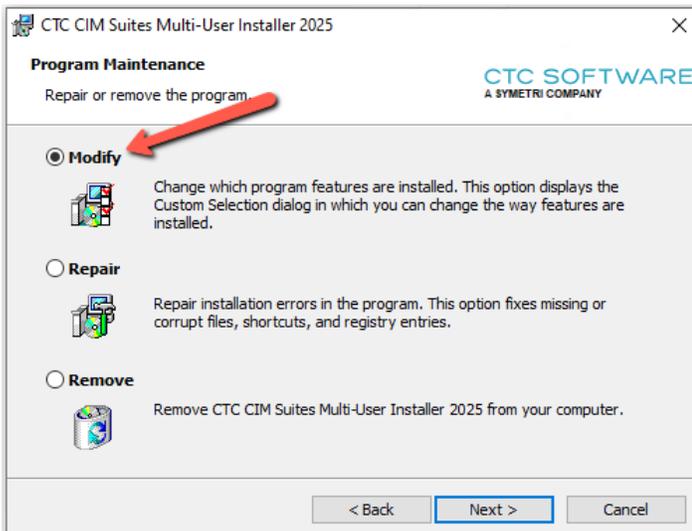
If you want to add or a remove a suite after the initial installation is complete, interactively you can do this in one of two ways:

- 1) Select the Modify choice from the Windows Apps list:



- 2) Run the same version of the msi installer again, as is currently installed

Both approaches will eventually lead you to this screen:



Selecting the Modify option and then pressing the Next button will allow you to turn on or off different suites to have installed, as the original interactive installer did. Proceeding forward from there will apply the changes.

Repairing an Existing Installation

If you accidentally delete some of the installed files, or some of them become corrupt, you can repair an existing installation using one of 3 techniques:

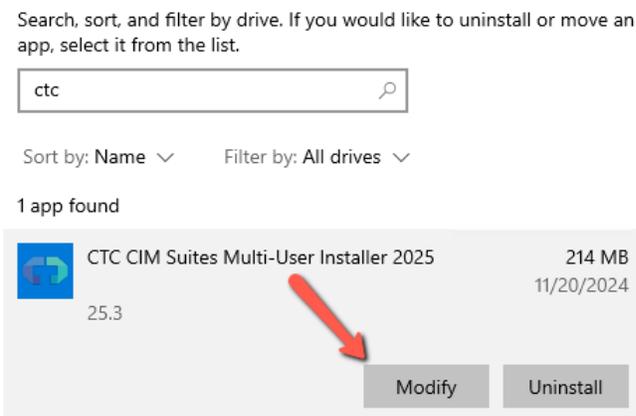
- 1) Silently, using the following command-line:

Single user installer example: `msiexec /fa CTCCIMSuitesSingleUserSetup.msi /q`

Multi-user installer example: `msiexec /fa CTCCIMSuitesMultiUserSetup.msi /q`

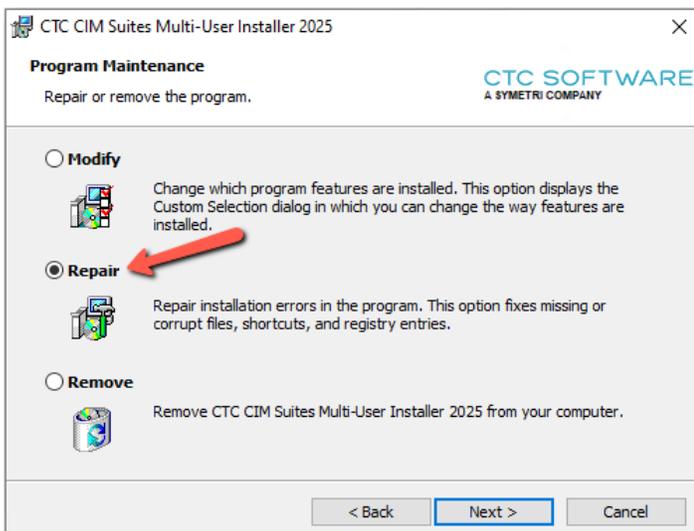
Tip: The old Control Panel “Programs and Features” dialog will offer a “Repair” choice that quickly and silently does the repair as well, but from an interactive starting point.

- 2) Select the Modify choice from the Windows Apps list:



- 3) Run the same version of the msi installer again, as is currently installed

Both approaches 2 and 3 will eventually lead you to this screen, where you should proceed with the Repair option:



Copying Tool Settings to Other Computers

If you have a “master” computer set up with the tools installed, and you have configured some tool-specific settings to be different than the default settings, for example default settings in the Options tab of some add-ins, you may want to copy those settings to the computers of other users, so everyone starts with the same settings.

To do this, copy tool-specific subfolders found in these locations:

User-specific: **%AppData%\CTC Software**
Application-wide: **C:\Users\Public\CTC Software**

to their respective locations on the other computer(s) or for other user(s) %AppData% folders.

Detecting the Version Installed

A text file called "SuiteVersion.txt" with only the Suite version (e.g. "23.1") in it can be found in the installation folder. For example:

Single user installer example: **%AppData%\CTC Software\CTC CIM Suites\SuiteVersion.txt**
Multi-user installer example: **%ProgramData%\CTC Software\CTC CIM Suites\SuiteVersion.txt**

For example, the contents of this file may be useful for checking in a script to see which version is installed.

The installed suite version can also be seen in the "About" dialog for any of the tools.

Digitally Signed Code

All CTC Express Tools add-ins are digitally signed. The MSI setup programs from CTC will automatically install the CTC digital certificate file into the Windows Trusted Publishers certificates section for the computer.

If the CTC add-ins are deployed using another method, such as if embedded in an Autodesk deployment, the CTC certificate will NOT automatically get installed into Windows, and the user will be prompted to allow the CTC add-in to load the first time they launch the Autodesk product.

The CTC digital certificate file, CTCCodeSigningCertificate.cer, can be found in the main installation folder:

Single user installer example: **%AppData%\CTC Software\CTC CIM Suites**
Multi-user installer example: **%ProgramData%\CTC Software\CTC CIM Suites**

This file can be added to the Trusted Publisher’s store in any normal manner, for example via Group Policy.

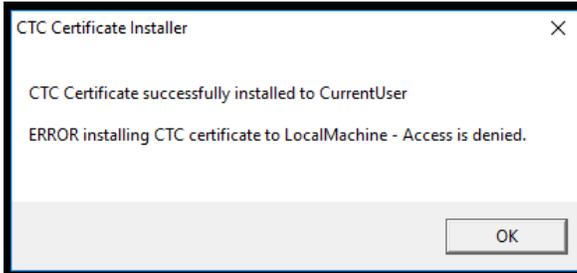
CTC Certificate Installer Utility

CTC also provides a small utility to add the CTC Certificate to Windows, which can be used for non-MSI deployments. This program is called **CTCCertificateInstaller.exe** and is located in the same folder as the certificate file, as seen above.

IMPORTANT: For this program to work, the CTCCodeSigningCertificate.cer certificate file must be in the same folder as this program.

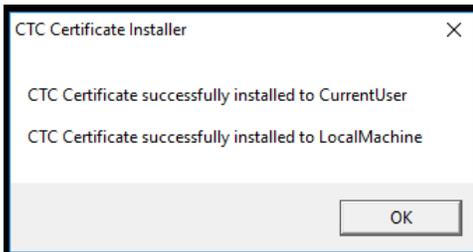
In order for this program to install the certificate such that it will work for all users who login to the computer, it must be run with the highest privileges (e.g. run "As Administrator"). If it is not run "As Administrator" it will only install the certificate for the currently logged in user.

When run as a regular user, a window appears when complete showing this:



In this case, when the current user starts up the Autodesk product(s), no messages from Autodesk will interrupt the startup process for any CTC products. However, if another user logs into this machine, they will see the dialog asking what to do with the signed add-in that was found, as seen above.

When the program is run "As Administrator", a window appears when complete showing this:



In this case, regardless of who logs into the computer, the Autodesk product for the add-ins will open smoothly, without asking the user what to do.

The CTCCertificateInstaller.exe program supports the following command-line parameters:

/Q – quiet. In quiet mode, no dialog window is ever displayed.

/L – Log file location. If a log file is specified, the results seen in the example dialogs above will be written to a new text file specified, overwriting any previous file that may have been there previously.

Example:

```
CTCCertificateInstaller.exe /Q /L "C:\My Folder\My Cert Installer Log File.txt"
```

(The /Q and /L may be lowercase)

Post-Installation Configuration

Once installed, you can change how the software behaves after the installer has completed.

Pre-selecting Cloud Shared Licensing

For a new computer, if you don't pre-configure the software to use cloud-shared licensing, the first time they are run the premium tools will stop to prompt the user to activate cloud-shared licensing. You can pre-configure the use of cloud-shared licensing either by using a command-line parameter on the MSI during the installation, or by deploying configuration files to the workstation, for example via Group Policy.

The files must be deployed to this folder: **C:\Users\Public\CTC Software\License Settings**

The file names (for the appropriate suite) must be from the following list:

CTC CIM Project Suite Licensing.txt
CTC CIM Manager Suite Licensing.txt

Each text file must contain only this text:

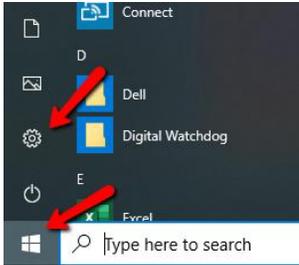
Licensing=CloudShared

Note: Regular users without special privileges can typically change files in this folder. For a truly secure environment, it may be desirable to change the permissions on these files so regular users cannot edit them.

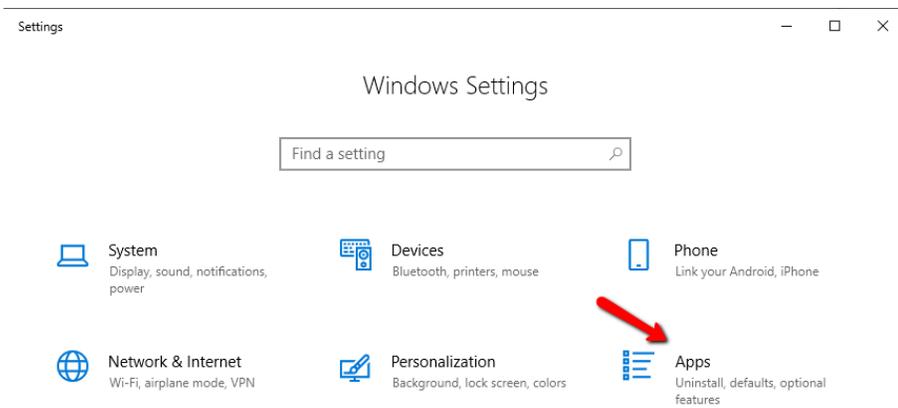
Civil 3D Workstation Uninstallation

Using Apps & features

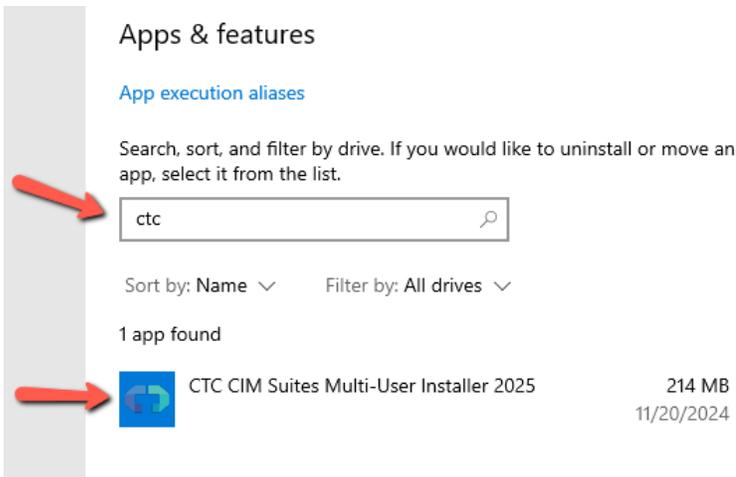
This is the preferred method for removing the suites from the workstations.



Select: Apps

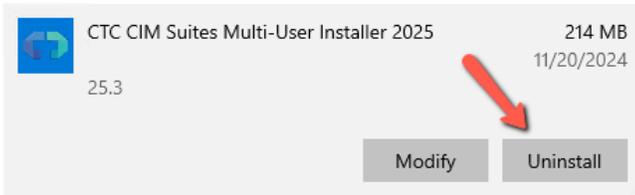


Search for: ctc



Select the product and click the Uninstall button.

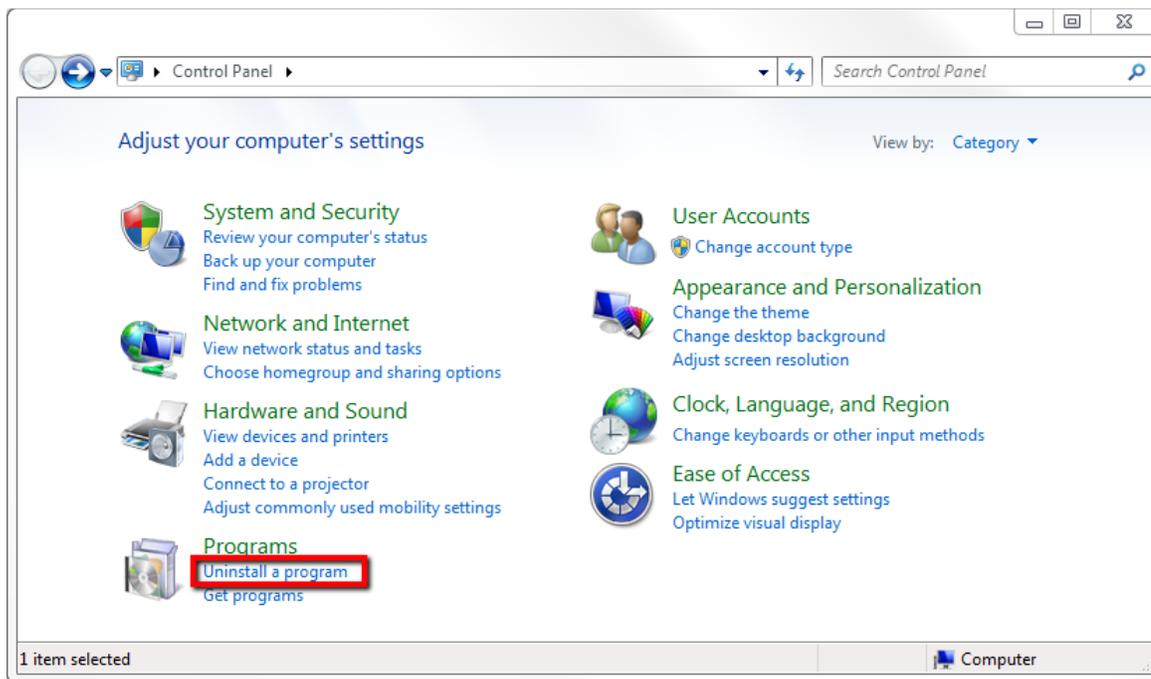
1 app found



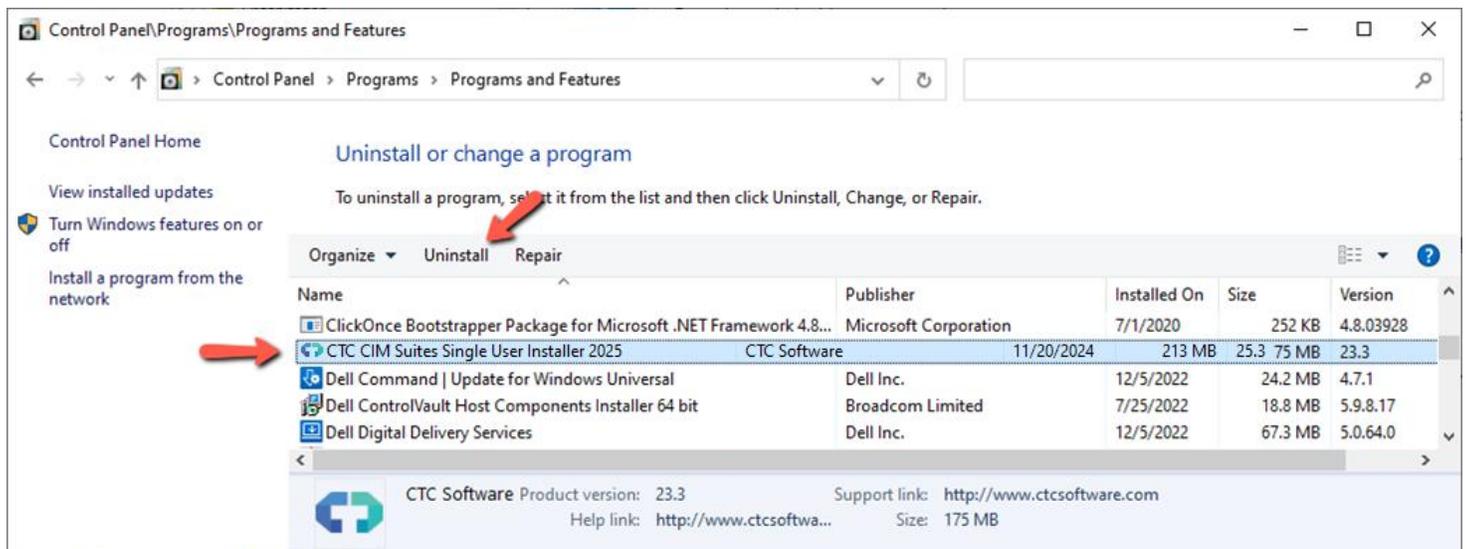
On the confirmation dialog that will appear, click the “Uninstall” button to begin the uninstallation process.

Using Control Panel

For older operating systems, this is typically found under “Add/Remove Programs.” For newer operating systems, it is usually listed under “Uninstall a program” –



Once on the “Uninstall or change a program” screen, click on the CTC add-in name that should be removed, then click on the “Uninstall” button on the toolbar:



You will be asked to confirm that you want to uninstall the product. Click the “Yes” button:

Once the uninstaller completes, the program will be uninstalled and it will be removed from the list of programs seen above.

Silent Uninstallation Using a Command

You can give a command like the following to uninstall the software from a workstation:

Single user installer example: `msiexec /x CTCCIMSuitesSingleUserSetup.msi /q`

Multi-user installer example: `msiexec /x CTCCIMSuitesMultiUserSetup.msi /q`

This could be executed from a script or possibly pushed out via a group policy.

IMPORTANT: The original msi file used to install the software must be in the current working directory when this command is executed, or the path to it must be explicitly specified in the command line.

Note that the silent uninstall may take a full minute or two to finish.