

CTC SOFTWARE

A SYMETRI COMPANY

CTC CIM Manager Suite™ User Guide

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Overview

Autodesk® CAD managers at Civil and Survey firms alike will find great value in the CIM Manager Suite. The CIM Manager Suite contains Civil 3D® and AutoCAD® tools for efficient CAD management, including content and template creation and editing.

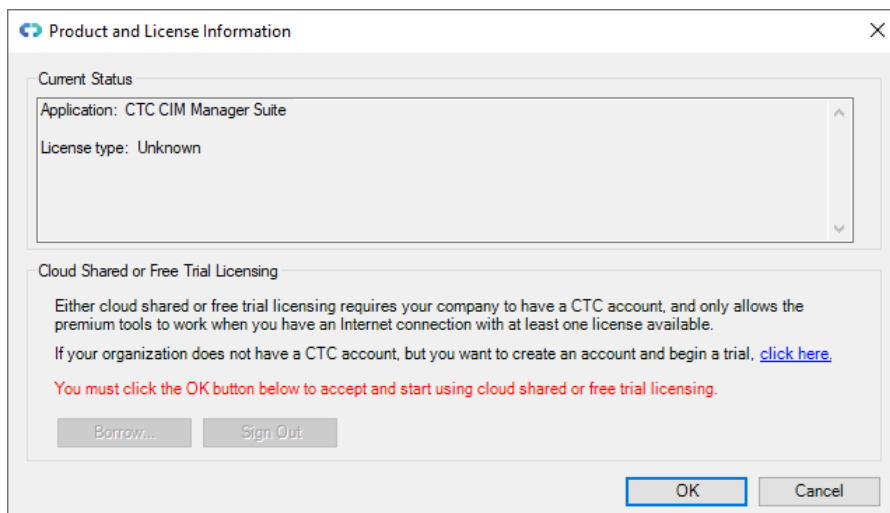
Installation and Configuration

The standard workstation installation requires little more than running the setup program. For more information regarding topics such as automating workstation installations and preconfiguring workstation settings, please refer to the *CTC CIM Suites Installation and Configuration Guide* document.

License Activation and Management

The productivity tools provided with light background colors are free tools that run without any special licensing. The productivity tools provided with dark background colors are premium tools which require licensing.

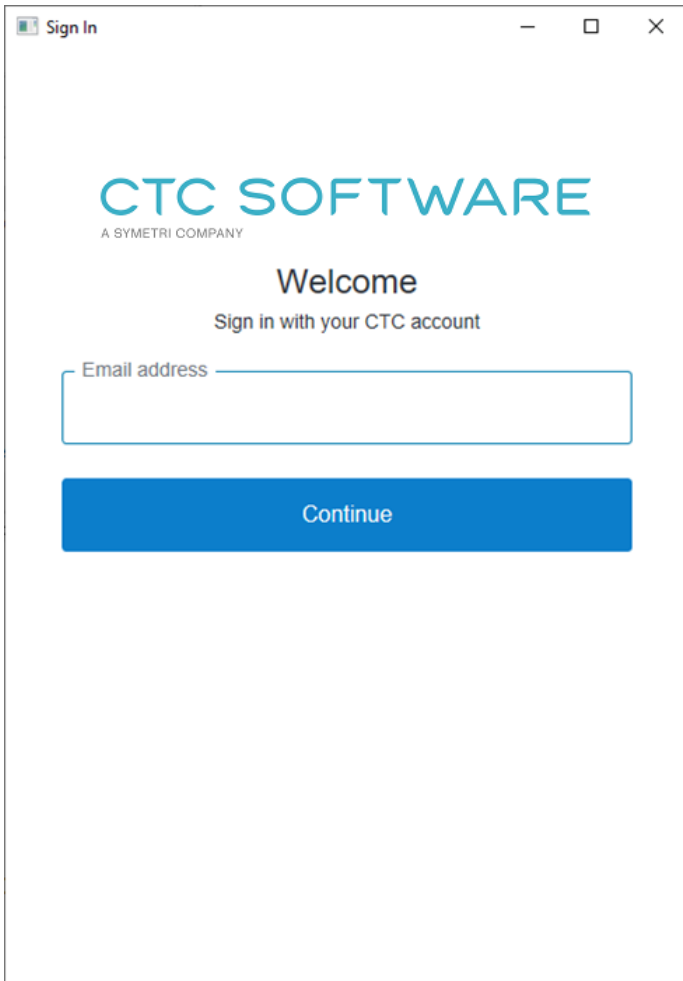
Unless initially preconfigured by the system administrator, the first time any of the licensed tools are launched, the *Product and License Information* dialog will appear which requires acknowledging the licensing requirements by clicking the OK button at the bottom.



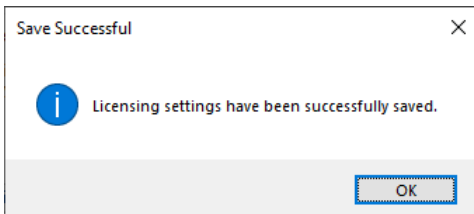
CTC Software products support only cloud-shared licensing, and also free trial licenses that use CTC's cloud licensing engine. You must click the OK button to activate the cloud licensing and acknowledge using a CTC cloud account.

The licensing will automatically apply to all of the tools that are included in the suite which require licensing. So once the first tool has configured the licensing, the other premium tools in the suite will automatically use the same configuration.

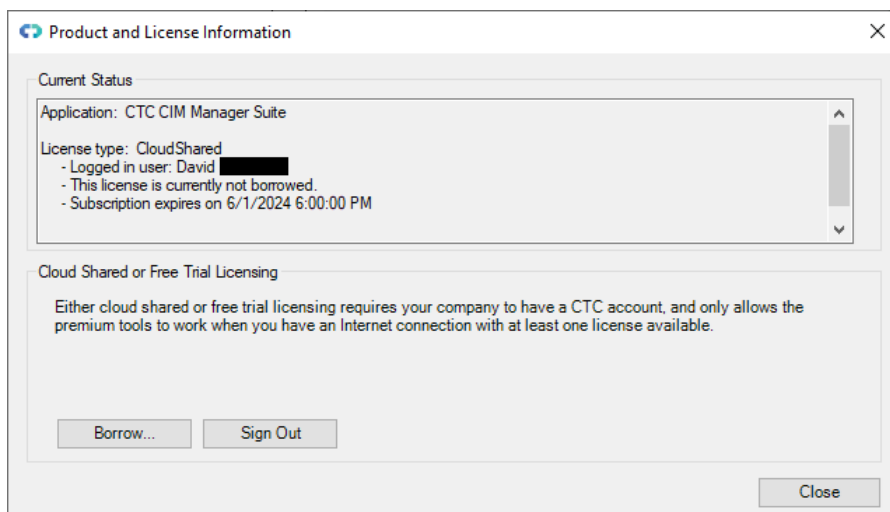
Once you click the OK button, you may be asked to login, if you aren't already logged in from using another CTC product:



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



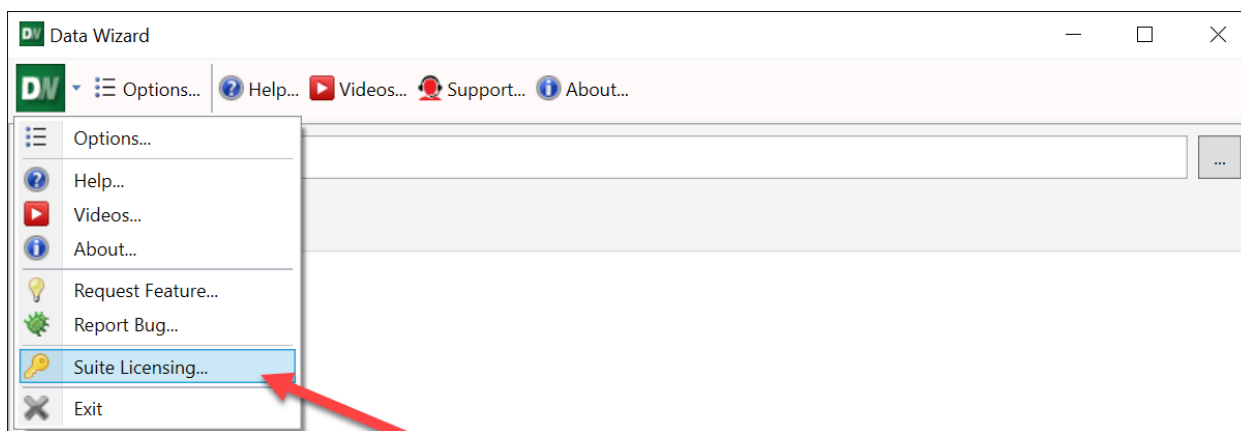
and the licensing screen will be updated to show that:



At this point, you may borrow a license for offline use. You may also Sign Out from the cloud licensing system in case a different user needs to sign in on this computer.

Changing Licensing at Any Time

Licensing can also be changed at any time using the “Suite Licensing” option from the application menu in any premium tool:



Borrowing a Cloud Shared License

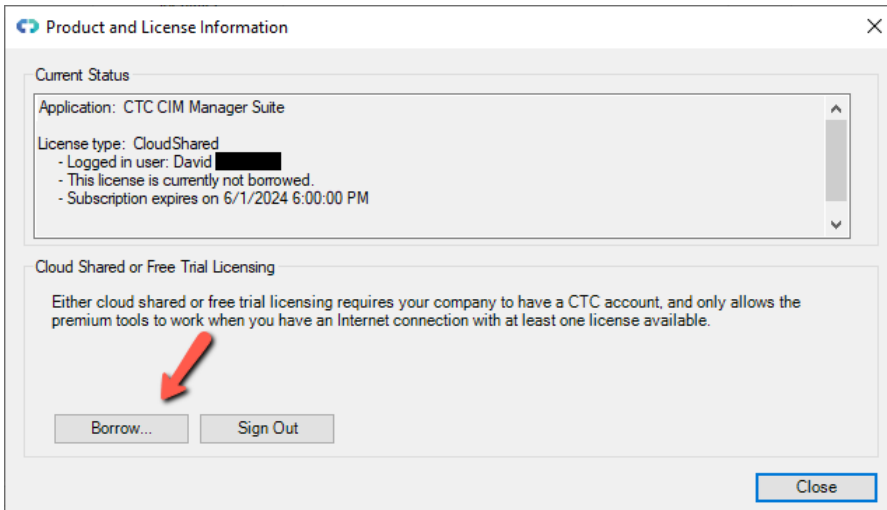
If a license is needed in anticipation of being disconnected from the Internet, borrowing a license can ensure that the CTC tools are available for use when offline.

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.

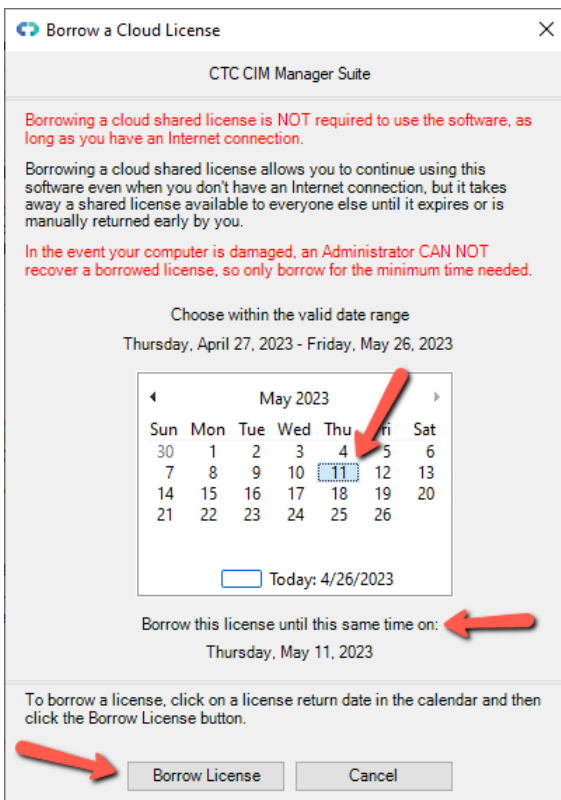
NOTE: Borrowing is only available for purchased cloud shared licenses. **Borrowing is not available for trial licenses.**

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.*

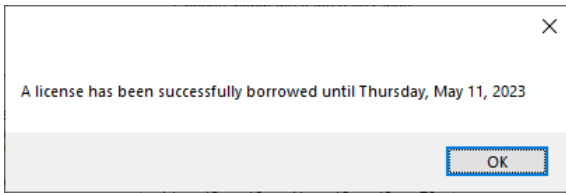
Begin by opening the *Product and License Information* screen from the main pulldown menu of a premium tool. From here, click the 'Borrow...' button to begin the process of choosing the length of time to borrow a Cloud Shared license.



The date selector should appear:

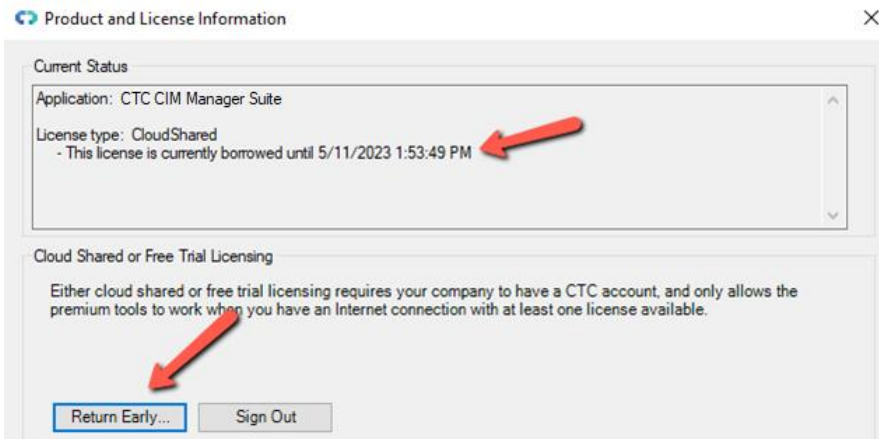


Confirm the date selection and click the *Borrow License* button. A success message should appear.

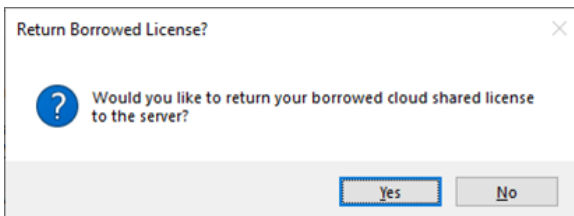


Returning a Borrowed Cloud Shared License Early

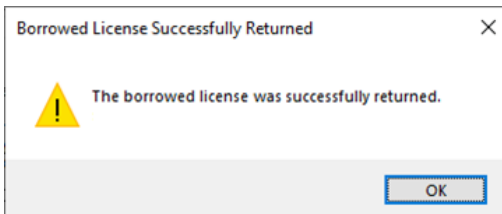
To return the license early, in the *Product and License Information* form, find the *Return Early...* button and click it.



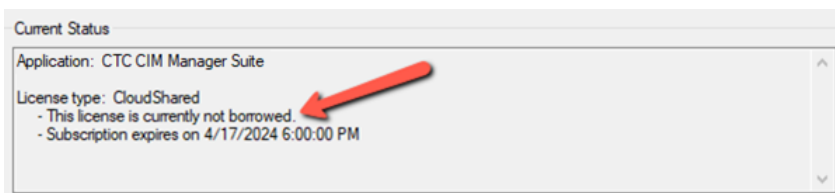
A prompt will appear confirming that the license should be returned.



Click the Yes button, then you should see:

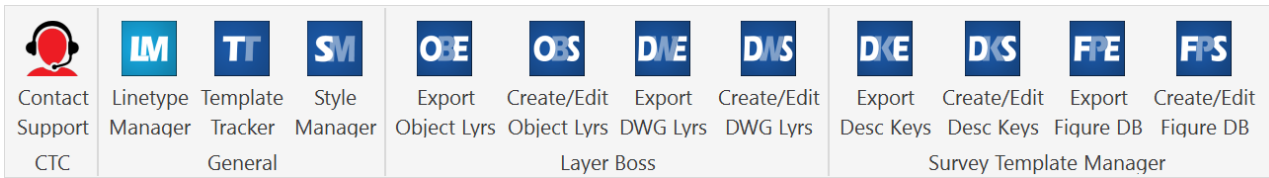


The license status should now show a 'not borrowed' message.



How to Use

All tools are launched from their respective buttons on the CIM Manager Suite Ribbon tab.



Users may also launch the tools using the following command line strings:

- Linetype Manager LINETYPENGR
- Template Tracker TEMPLATETRACKER
- Style Manager STYLEMGR
- Layer Boss
 - Export Object Layer EXOBJLAY
 - Create/Edit Object Layer SETOBJLAY
 - Export Drawing Layers EXDWGLAY
 - Create/Edit Drawing Layers UPDATEDWGLAY
- Survey Template Manager
 - Export Description Key Set XDKS
 - Create or Edit Description Key Set DKS
 - Export Figure Prefix Database XFPD
 - Create or Edit Figure Prefix Database FPD

Linetype Manager

The tool consists of one dialog box that allows users to edit AutoCAD linetype files (.lin) in an intuitive and graphical way. As linetype definitions are created or assembled, a preview provides instant feedback. All linetype definitions are written to a native .lin file and are compatible with any DWG file.

Upon command initiation the following dialog will launch:

The screenshot shows the Linetype Manager dialog box with the following callout boxes:

- Linetype file opening and saving.** (Points to the File menu)
- Filter options to limit the list of linetypes** (Points to the Name and Description filters)
- Sort the display by linetype order or display order. When sorting by display the order does not affect the order of linetypes in the .LIN file.** (Points to the Lintypes order radio buttons)
- Linetype preview and scale option.** (Points to the Preview window and Scale dropdown)
- Create a new linetype.** (Points to the New button)
- Import linetypes from selected objects in dwg.** (Points to the Import Selected button)
- Import all linetype definitions in current dwg.** (Points to the Import All button)
- Edit, Copy, or delete the currently selected linetypes.** (Points to the Edit, Copy, and Delete buttons)
- Change the order that linetypes are sorted in the linetype file. Only available when "Actual" order method is selected above.** (Points to the Up and Down buttons)
- Insert selected linetypes into current drawing.** (Points to the Add to DWG button)

Name	Description	Code
BORDER	Border	A,0.5,-0.25,0.5,-0.25,0,-0.25
BORDER2	Border (.5x)	A,0.25,-0.125,0.25,-0.125,0,-0.125
BORDERX2	Border (2x)	A,1,-0.5,1,-0.5,0,-0.5
CENTER	Center	A,1.25,-0.25,0.25,-0.25
CENTER2	Center (.5x)	A,0.75,-0.125,0.125,-0.125
CENTERX2	Center (2x)	A,2.5,-0.5,0.5,-0.5
DASHDOT	Dash dot	A,0.5,-0.25,0,-0.25
DASHDOT2	Dash dot (.5x)	A,0.25,-0.125,0,-0.125
DASHDOTX	Dash dot (2x)	A,1,-0.5,0,-0.5
DASHED	Dashed	A,0.5,-0.25
DASHED2	Dashed (.5x)	A,0.25,-0.125
DASHEDX2	Dashed (2x)	A,1,-0.5
DIVIDE	Divide	A,0.5,-0.25,0,-0.25,0,-0.25
DIVIDE2	Divide (.5x)	A,0.25,-0.125,0,-0.125,0,-0.125
DIVIDEX2	Divide (2x)	A,1,-0.5,0,-0.5,0,-0.5
DOT	Dot	A,0,-0.25

Upon clicking New or Edit, the following dialog box will launch:

The screenshot shows the Linetype Editor dialog box with the following sections and callouts:

- General:** Name: GAS_LINE, Description: Gas line ----GAS----GAS----GAS----GAS
- Components:** A list containing Line (0.5), Space (0.2), Text (Text: GAS -- Style: STANDARD), and Space (0.28). Callouts point to this list:
 - Options to create or edit Line/Dot, Space, Text, or Shape components.
 - Delete components.
 - Change the order of components.
 - Linetype preview and Scale option.
- Component Definition:** Characters: GAS, Text Style: STANDARD, Size: .1, X Offset: -0.1, Y Offset: -.05, Rotation: 0.0, Rotation Type: Relative to line, Plan readable (upright), Relative to WCS (absolute). Callouts point to this section:
 - Component Definition. For Shape file, the .shx files must be found in Support File Search Paths in Options.
 - Available for Text or Shapes. Option to make the component rotation relative to the line (R), plan readable (U), or relative to the drawing WCS (A).
- Preview:** Shows a line with the text "GAS" and a scale of 50.
- Buttons:** Line/Dot, Space, Text, Shape, Delete, Duplicate, Up, Down, OK, Cancel.

NOTE: Importing complex linetypes from the current drawing will prompt the user to specify the rotation type for text and shape components, because it can't be read with Linetype Manager. Users need to specify one of three options for complex linetypes:

1. Relative to line: text and shape components will insert relative to the line object, regardless of the direction of the line segment
2. Plan readable (upright): text and shape components will insert relative to the line object but will rotate 180 degrees upon the insertion point when the text/shape component is upside down.
3. Relative to WCS (absolute): text and shape components will insert relative to the World Coordinate System, regardless of the line segment direction.

Style Manager

Gain access to the styles used by Objects, Labels, and Tables for quick and easy editing. Editing can happen in a spreadsheet like window directly in the app, or the data can be exported to MS Excel for larger editing efforts and then imported back in to update the DWG. Once the Style Manager is opened, the following window will appear.

The screenshot shows the Style Manager application window. On the left is a tree view of categories. The main area is a table with columns for Type, Name, and Description. At the top right are search and action buttons. At the bottom are export options.

Callout boxes:

- List of categories that contain styles.
- Expand to see additional subcategories
- Selected items will appear in the preview window
- Expand or collapse all subcategories
- Styles can be exported to a new Excel file or add to an existing file
- During export, tabs can be created based on the styles selected
- List Filters
- Use the search bar to find specific names, layers, or text in the description
- Use Compare to import Excel updates highlight and apply changes
- Replace brings up a window with find and replace functions

After clicking the option tab, the following dialogue box will open.

The screenshot shows the Options dialog box with the General tab selected. It contains several checkboxes and a dropdown menu.

Callout boxes:

- Some basic options to remember window position and control visibility of columns in the preview window
- This dropdown controls how the category list is displayed. Either match the Civil 3D space, or sort Alphabetically

After clicking on the Replace button, this window will appear.

The screenshot shows the 'Replace Window' dialog box. It has two main sections: 'Replace' and 'Add'. The 'Replace' section includes 'Find what' and 'Replace with' text boxes, 'Apply to:' checkboxes for 'Name', 'Description', and 'Created By', a 'Match case' checkbox, and a 'Replace All' button. The 'Add' section includes an 'Add Text' text box, a dropdown menu set to 'As a prefix', another text box, 'Apply to:' checkboxes for 'Name', 'Description', and 'Created By', and an 'Add to All' button. A 'Close' button is at the bottom. Two blue callout boxes point to the 'Apply to:' checkboxes in both sections.

Typical find and replace command that provides the ability to control what the change will be applied to

There is also an option to add custom text as a prefix or suffix with the same application control

Using the Compare button will assist with importing changes from the edited excel files.

The screenshot shows the 'Compare Window' dialog box. It has a 'Reference file:' section with a radio button for 'Spreadsheet' and a text box containing 'C:\Temp\CIM Items\SM Template.xlsx'. Below this are 'Sheet' and 'Match By:' dropdown menus, with 'Label Styles' and 'Name' selected respectively. There is also a radio button for 'Drawing'. The 'When comparing to reference file:' section has two radio buttons: 'Highlight differences found in Style Manager table' and 'Apply differences found in Style Manager table', with the latter selected. 'Compare' and 'Close' buttons are at the bottom. A blue callout box points to the 'Apply differences...' radio button.

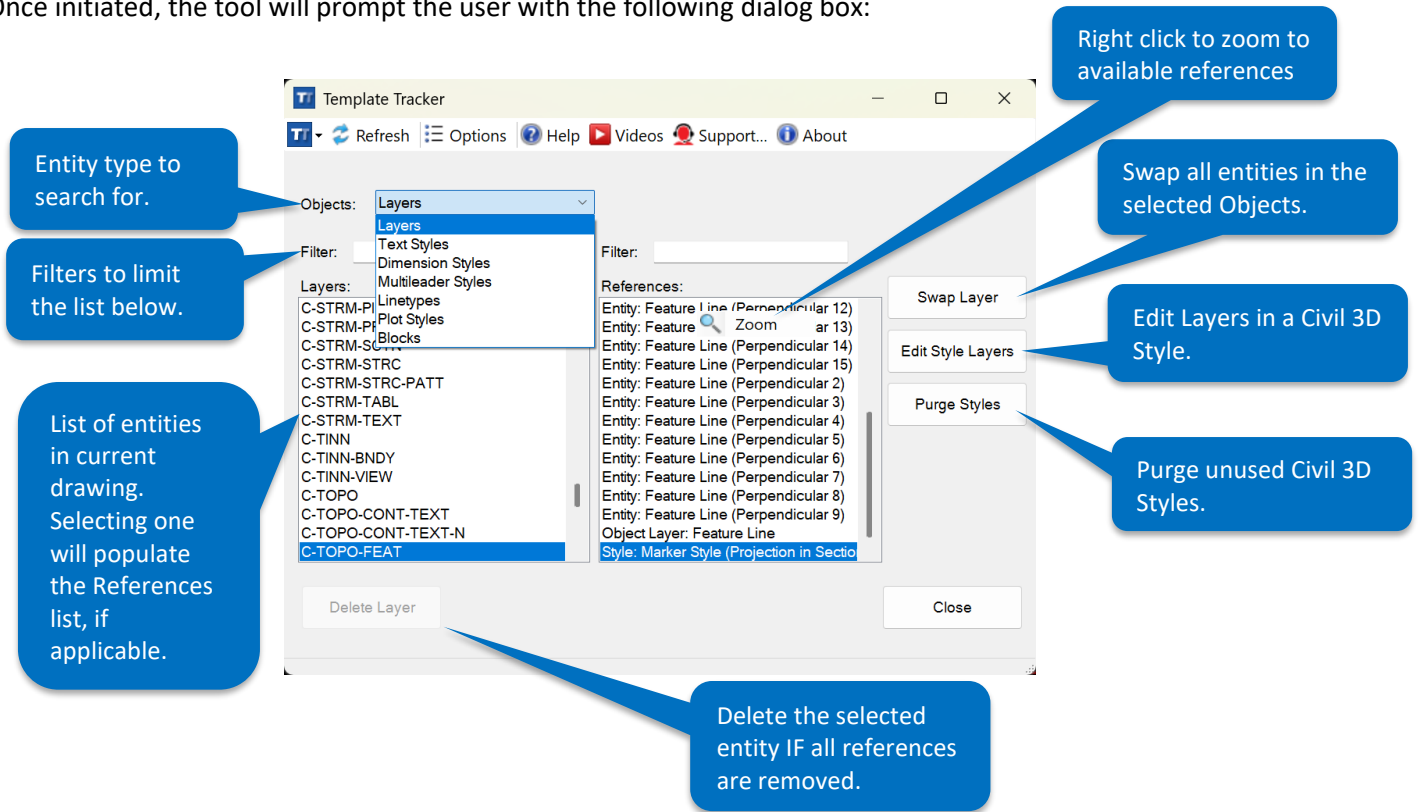
The compare function will allow review against edited excel files, or against other DWGs

Use the highlight option to get a visual on what is going to change, then use the apply option to see the changes before pushing back to the style

Template Tracker

Track down the use of Layers, Text, Dimension, Multileader Styles, Linetypes, Blocks and Plot Styles in any drawing or template. Easily replace and edit these embedded elements throughout the current file. This includes use of Layers in Civil 3D Styles, Text Styles in Dimension or Table Styles, Text Styles in Block definitions, and more. The dialog box is modeless, allowing users to simultaneously work in Template Tracker, Toolspace, Layer Manager, etc.

Once initiated, the tool will prompt the user with the following dialog box:



NOTE: There may be some layer and text references that cannot be tracked in Template Tracker. Known references include Pressure Pipe related styles in versions 2021 and older, and some "legacy" Styles. To force delete these Layers, utilize the native LAYDEL command, followed by an AUDIT to set the reference to Layer 0.

Some blocks containing AECC data will not be accessible for deletion such as *U blocks which may have been created when editing a dynamic block and may be imbedded in a style. It might also be referenced within other block definitions or used by other drawing elements.

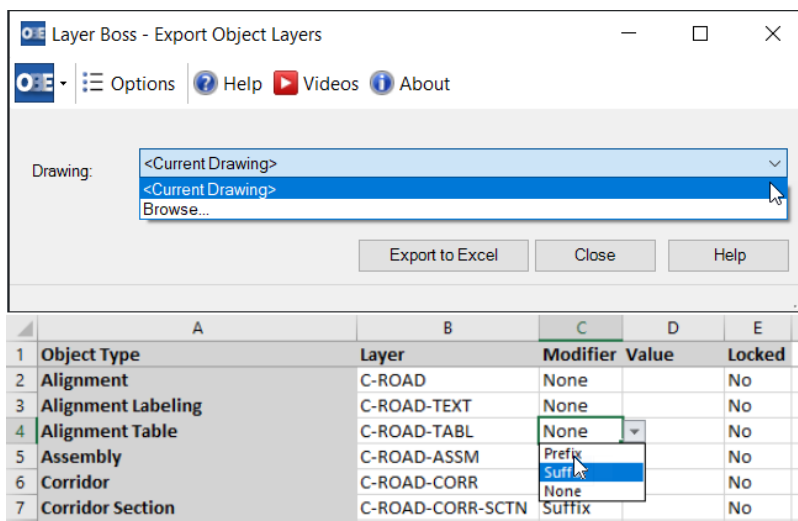
Layer Boss

Speed up Civil 3D Layer management and creation by syncing with an Excel spreadsheet. All Layer Properties can be managed from an external spreadsheet, allowing faster template management. All Civil 3D Object Layer settings can be synced in the same way. Initial spreadsheet creation occurs through a simple export option from any drawing or template file.

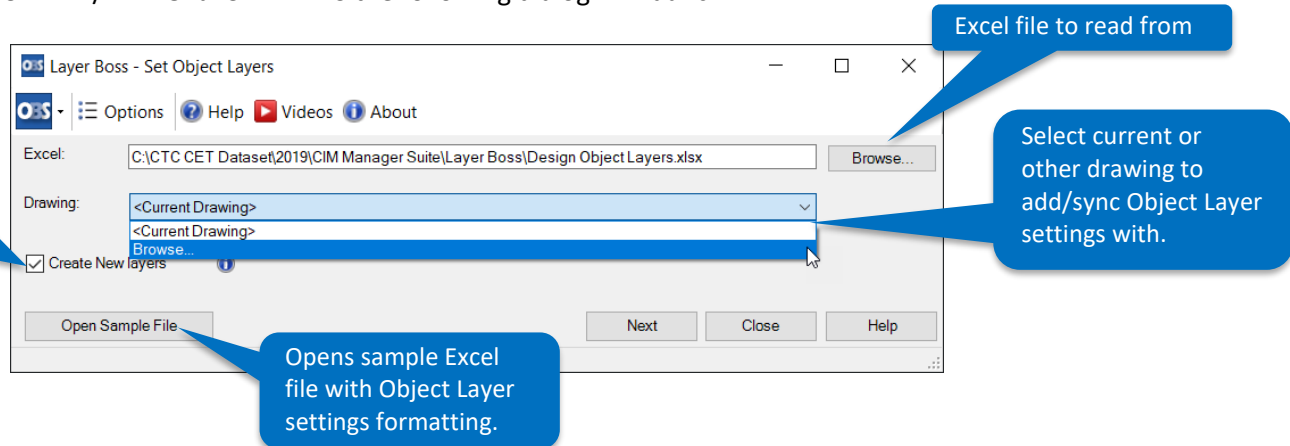
Layer Boss consists of 4 different functions:

1. EXPORT OBJECT LAYERS: Export Civil 3D Object Layer settings to an Excel spreadsheet
2. CREATE/EDIT OBJECT LAYERS: Sync and add Civil 3D Object Layer settings from any Excel spreadsheet
3. EXPORT DWG LAYERS: Export AutoCAD Layer Properties Manager settings to an Excel spreadsheet
4. CREATE/EDIT DWG LAYERS: Sync and add AutoCAD Layer Properties settings from any Excel spreadsheet

Upon initiation of EXPORT OBJECT LAYERS the following dialog will launch. User can select the current drawing or browse to another drawing. The export will provide an Excel file with helpful lists populated for certain columns.



Upon initiation of CREATE/EDIT OBJECT LAYERS the following dialog will launch:



Upon clicking Next, the following report will display. Only after clicking OK here will the changes write to the DWG.

The screenshot shows the 'Layer Boss - Set Object Layers' dialog box. It contains a table with columns: Object Type, Layer, Measure, Value, and Locked. The table lists various object types and their corresponding layer settings. Callouts explain the color coding: red for invalid entries, green for updated fields, and blue for layers that don't exist. A 'Reload' button is highlighted with a callout indicating that the report should be updated after changes to the Excel file and saving.

Object Type	Layer	Measure	Value	Locked
Alignments	C-ALIGN	Suffix	-*	No
Alignment Labeling	C-ANNO	None	-*	No
Alignment Table	C-ANNO	None		No
Assembly	C-ANNO	None		No
Corridor	C-ANNO	None	-*	No
Corridor Section	C-ANNO-SECT	None		No
Feature Line	C-TOPO	None		No
General Note Label	C-ANNO	None		No
General Segment Label	C-ANNO	None		No

Legend:
■ Updated
■ Error
■ Updated Layer does not exist

Upon initiation of EXPORT DWG LAYERS the following dialog will launch:

The screenshot shows the 'Layer Boss - Export Drawing Layers' dialog box. It includes checkboxes for 'Current Drawing', 'External References', and 'Current Layer State'. A list of drawings is shown, with 'C:\Civil 3D Projects\Alignments and Parcels.dwg' selected. There are also options for 'Include Additional Drawing(s)', 'Limit by Layer Filter', and 'Limit by Text Filter'. A list of .lin files is shown, with options to 'Include Linetypes from .lin file(s)'. There are also checkboxes for 'Add Background Color to Color Column' and 'Include Plot Styles in current STB file'. The 'Layers to Export' count is 461. Callouts explain the purpose of each option.

The export will provide an Excel file with helpful lists populated for columns. A tab will be created for each drawing source. If linetypes and plot styles are exported from the .lin and .stb files during the export process they will appear in

this list, in addition to those already loaded into the drawings. Selecting current layer state will export external reference layer changes, similar to VISRETAIN.

The export will also include a **New Layer Name** field. Use this to rename layers and to keep their references when the spreadsheet is synced back to Civil 3D. If new layers are to be created simply add those in the **Name** field and specify the appropriate settings.

	New Layer			New VP								
1	Name	Name	On	Freeze	Freeze	Lock	Plot	Color	Linetype	Line Weight	Transparency	Description
2	0		Yes	No	No	No	Yes	white	Continuous	Default	0	
3	A-BLDG		Yes	No	No	No	Yes	white	Continuous	Default	0	
4	A-BLDG-FPRT		Yes	No	No	No	Yes	white	Continuous	Default	0	
5	A-BLDG-SITE		Yes	No	No	No	Yes	white	Continuous	Default	0	
6	A-BLDG-UTIL		Yes	No	No	No	Yes	white	Continuous	Default	0	

Upon initiation of CREATE/EDIT DWG LAYERS the following dialog will launch:

The screenshot shows the 'Layer Boss - Create/Sync Drawing Layers' dialog box. It features several input fields and options:

- Excel:** A text field containing the file path 'C:\Civil 3D Projects\Layers Properties Manager.xlsx' with a 'Browse...' button next to it.
- Excel Tab:** A dropdown menu currently set to 'Current Drawing-1'.
- Drawing:** A dropdown menu currently set to '<Current Drawing>'.
- Xref:** A dropdown menu currently set to 'Alignments and Parcels'.
- Options:** A section with two radio buttons: 'Sync to Drawing Layers' (selected) and 'Add to Drawing Layers'. There is also a 'Case sensitive' checkbox which is unchecked.
- Buttons at the bottom include 'Open Sample File', 'Next', and 'Cancel'.

Callout boxes provide the following explanations:

- Option to sync or add layers. With sync, Layers found in the DWG, but not in Excel will be deleted.** (Points to the radio buttons)
- Opens empty Layer list Excel template.** (Points to the 'Open Sample File' button)
- Excel file to create/sync Layers from.** (Points to the 'Excel' text field)
- Specify Excel tab to sync/create** (Points to the 'Excel Tab' dropdown)
- Create/sync Layers in current or selected drawing.** (Points to the 'Drawing' dropdown)
- Specify xref to update** (Points to the 'Xref' dropdown)

Upon clicking Next, the following report will display. Only after clicking OK here will the changes write to the DWG. If the option to export linetypes from .lin files and plot styles from .stb files was selected during the export process, and one or more of those linetypes or plot styles was selected in Excel, Layer Boss will automatically import those definitions into the drawing upon syncing. Xref drawings can only be done individually and will need to have the matching excel tab selected.

The screenshot shows the 'Layer Boss - Create/Sync Drawing Layers' dialog box. It contains several sections with tables of layer data. Callouts provide context for various elements:

- Layer does not exist and will be created:** Points to the 'A-BLDG' layer in the 'New Layers' section.
- Error if invalid entry or characters. Correct before update can be applied:** Points to the '300' color value for the 'building_loc_py' layer in the 'Updated Layers' section.
- Denotes updated value:** Points to the 'A-BLDG*' text in the 'New Layer Name' column.
- Deleted Layers if Sync was selected on previous screen:** Points to the 'building_loc_py' layer in the 'Updated Layers' section.
- If duplicate entries in Excel file:** Points to the 'C-PROP-LINE' layer in the 'Duplicate Layers' section.
- Cannot be deleted because of Style references. Options to Ignore, choose a Layer to swap, or click ellipsis to open Template Tracker. Use Shift/Ctrl selection to edit multiple.** Points to the 'V-NODE-SSWR' layer in the 'Deleted Layers (Referenced in Description Keys)' section.
- Deleted layers that are used in a Description Key Set:** Points to the 'V-NODE-SSWR' layer in the 'Deleted Layers (Referenced in Description Keys)' section.
- Update report after making changes to Excel file and saving:** Points to the 'Reload' button at the bottom.
- If errors in the excel are reported, this note will help you find and repair the error:** Points to the legend at the bottom left.

Legend:

- Updated (Green)
- Error (Red)
- Layer does not exist; will be created (Blue)

Errors in the excel sheet indicated by RED in the report. Update and save the excel. Press RELOAD button to generate the report again.

Color reporting for sync/add. Green shows updated codes. Red shows error warning. Blue shows code does not exist and will be created.

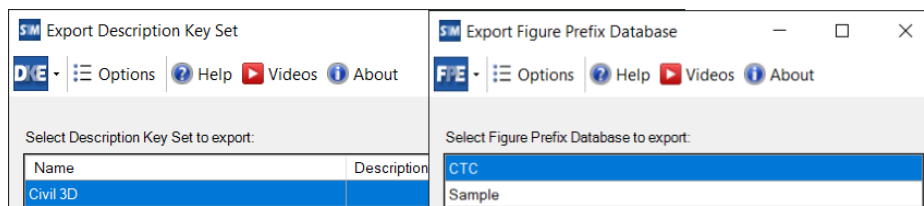
Survey Template Manager

Greatly improve survey template management through automated configuration of Description Key Sets and Figure Prefix Databases. Easily export, import or sync settings from an Excel spreadsheet. Automate Layers and Styles creation and editing.

Survey Template Manager consists of four functions:

1. EXPORT DESCRIPTION KEY SET: Export Description Key Set settings to an Excel spreadsheet
2. CREATE/EDIT DESCRIPTION KEY SET: Create and edit Description Key Sets from an Excel spreadsheet
3. EXPORT FIGURE PREFIX DATABASE: Export Figure Prefix Database settings to an Excel spreadsheet
4. CREATE/EDIT FIGURE PREFIX DATABASE: Create and edit Figure Prefix Database from an Excel spreadsheet

Upon initiation of EXPORT DESCRIPTION KEY SET or EXPORT FIGURE PREFIX DATABASE the following dialogs will launch. User simply selects the desired option and then chooses where to save the Excel file. Note, the options are based on the current drawing for Desc Keys, and the Survey User Settings path for the available Figure Prefix Databases.



Upon initiation of CREATE/EDIT DESCRIPTION KEY SET the following dialog will launch:

The image shows the 'Create/Edit Description Key Set' dialog box with several callouts explaining its features:

- Choose Excel file.** Points to the 'Excel File' field.
- Create new or update an existing Key Set.** Points to the 'Description Key Set' dropdown menu.
- Sync or add to Key Sets. With sync, rows found in the DWG, but not in Excel will be deleted.** Points to the 'Sync Description Key Set' radio button.
- Creates new C3D Styles if not found. Uses the default settings in the DWG. For Point Styles, option to specify a block name in the Excel file.** Points to the 'Create new Point and Label Styles' checkbox.
- Opens empty Desc Key Excel template.** Points to the 'Open Sample Excel File' button.

Upon clicking Next, the following report will display. Only after clicking OK here will the changes write to the DWG.

The screenshot shows the 'Create/Edit Description Key Set' dialog box with the following sections and callouts:

- New Codes: 5**: A table of new codes with callouts:
 - TRD***: Tree, Deciduous Tree, Point#-Elevation-Description, \$*, V-NODE-TREE, Parameter1, 1, Yes. Callout: "New codes that don't exist in DWG."
 - HYD***: Hydrant (proposed), Proposed Hyd, Point#-Elevation-Description, \$*, V-NODE-WATR, Parameter1, 1, Yes. Callout: "Edited codes that already exist in the"
 - HYDE***: Hydrant (existing), Existing Hyd, Point#-Elevation-Description, \$*, V-NODE-WATR, Parameter1, 1, No.
 - SGNP***: Sign (single pole), Single Pole Sign, Point#-Elevation-Description, \$*, V-NODE-SIGN, Parameter1, 1, No.
 - UP***: Utility Pole, Utility Pole, Point#-Elevation-Description, \$*, V-NODE-UPOLE, Parameter1, 1, No.
- Changed Codes: 1**: A table of changed codes with callout: "Unchanged codes from Excel File"
 - SWMH***: Storm Sewer Ma..., CB, Point#-Elevation-..., \$*, V-NODE-STRM, Parameter1, 1, No.
- Unchanged Codes: 1**: A table of unchanged codes with callout: "Unchanged codes from Excel File"
 - TR***: Tree, Tree 6, Point#-Elevation-..., \$*, V-NODE-TREE, Parameter1, 1, Yes. Callout: "Deleted entries if Sync was selected on previous screen."
- Deleted Codes: 1**: A table of deleted codes with callout: "Deleted entries if Sync was selected on previous screen."
- Duplicate Codes: 0**: A table of duplicate codes with callout: "If duplicate entries in Excel file."

At the bottom, there is a legend:

- Green: Updated
- Red: Error
- Blue: Code does not exist, will be created

 Buttons: OK, Cancel, Back, Reload. Callout: "Update report after making changes to Excel file and saving."

Color reporting for sync/add. Green shows updated codes. Red shows error warning, layer or object does not exist and will be created. Blue shows code does not exist and will be created.

Change confirmation window.

The 'Change confirmation window' dialog box displays the following summary:

- Total New Codes: 5
- Total Changed Codes: 1
- Total Deleted Codes: 1
- Total Unchanged Codes: 1

Buttons: OK, Cancel

Upon initiation of CREATE/EDIT FIGURE PREFIX DATABASE the following dialog will launch:

The dialog box 'Create/Edit Figure Prefix Database' contains the following elements and callouts:

- Excel File:** C:\Users\BrianL\Desktop\CTC.xlsx (Callout: Choose Excel file.)
- Figure Prefix Database:** CTC (Callout: Create new or update an existing Figure Database.)
- Editing Options:**
 - Sync Figure Prefix Database (Callout: Sync or add to Figure Database. With sync, rows found in the Database, but not in Excel will be deleted.)
 - Add to Figure Prefix Database
 - Create new Survey Figure Line Styles (Callout: Creates new C3D Styles if in the current DWG if not found. Uses the default settings in current DWG.)
- Buttons:** Open Sample Excel File (Callout: Opens empty Figure Database Excel template.), Next, Cancel.

Upon clicking Next, the following report will display:

The report displays the following sections and callouts:

- New Codes: 1**

Name	Breakline	Lot Line	Layer	Style	Site
TBC	Yes	No	V-LINE-CURB-TB	Curb	Survey Site
- Changed Codes: 4**

Name	Breakline	Lot Line	Layer	Style	Site
EOB	Yes	No	V-LINE-BITM	Asphalt	Survey Site
BLD	Yes	No	V-LINE-BLDG	Building	Survey Site
EOC	Yes	No	V-LINE-CONC	Conc	Survey Site
GUT	Yes	No	V-LINE-CURB	Curb	Survey Site
- Deleted Codes: 1**

Name	Breakline	Lot Line	Layer	Style	Site
BC	Yes	No	V-LINE-CURB	Standard	Survey Site
- Duplicate Codes: 4**

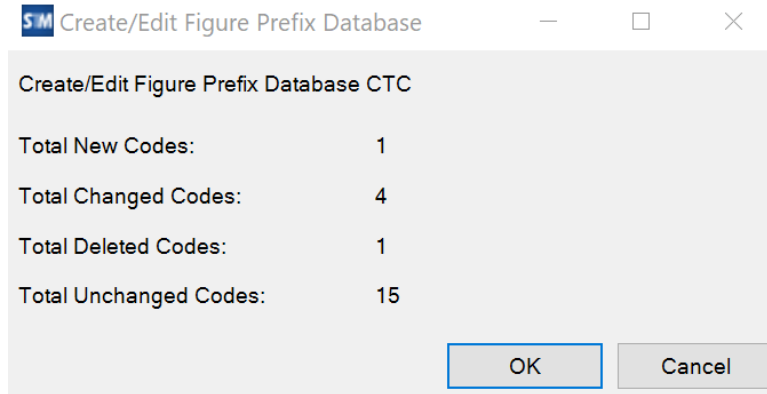
Name	Breakline	Lot Line	Layer	Style	Site
BIT	Yes	No	V-LINE-BITM	Asphalt	Survey Site
BIT	No	No	V-NODE-BITM	Standard	NONE
TOE	Yes	No	V-LINE-TOPO	Standard	Survey Site
TOE	Yes	No	V-LINE-TOPO	Standard	Survey Site

Legend: Updated (Green), Error (Red), Code does not exist; will be created (Blue).

Buttons: OK, Cancel, Back, Reload.

Color reporting for sync/add. Green shows updated codes. Red shows error warning, layer or object does not exist and will be created. Blue shows code does not exist and will be created.

Change confirmation window.



Getting Help

The **User Guide** can be accessed by clicking on the "Help" button in any dialog box.

Technical Support can be reached by contacting your CTC Express Tools Reseller, or by submitting through the link in the ribbon:

