

OrCAD Component Information Portal Client Installation Guide

**Product Version 17.4-2019
October 2019**

Updated: November 2020

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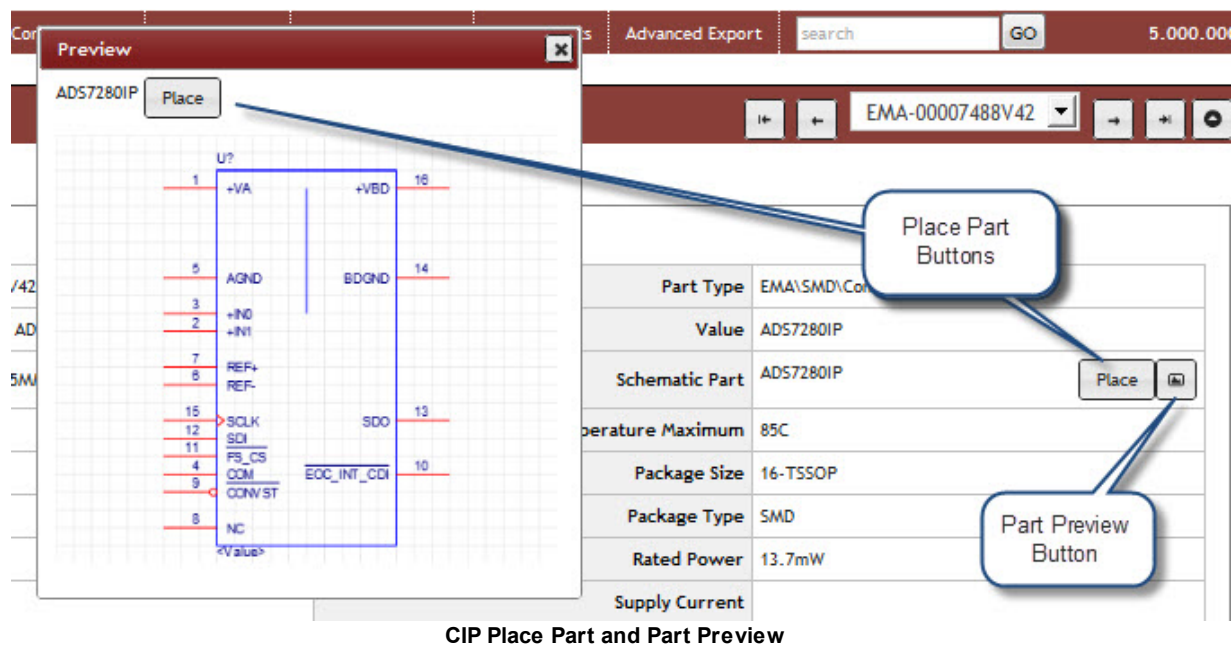
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1 What is the CIP Client?

The Component Information Portal (CIP) Client is an application that is loaded by Cadence OrCAD Capture CIS. The installation of the CIP client is only necessary for users who have OrCAD Capture.

A few examples of the functionality added by the CIP Client include the following:

- **Part Preview** – Symbols for a component can be previewed by selecting the Preview button next to the schematic part name in CIP as shown in the following figure. The symbol libraries used for part preview come from your CAPTURE.INI file.
- **Place Part** – Symbols for a component can be placed from CIP directly onto an open OrCAD Capture schematic page. The symbol libraries used to place parts come from your CAPTURE.INI file.
- **Footprint Preview** – Footprints for a component can be previewed by selecting the Preview button next to the PCB footprint name in CIP. Footprint libraries used for footprint preview come from your CAPTURE.INI file.
- **Compare Symbol and Footprint** – Schematic Symbol(s) and PCB Footprint(s) of a component can be compared to show whether pin numbers and pin counts match.
- **Creation of Reuse Module** - Symbol for a reuse modules can be created from a design file.
- **BOM Import from design file** - Parts from an opened design file can be imported directly into CIP.
- **Build symbols and footprints using OrCAD Library Builder** – Library Builder will open automatically to the manufacturer datasheet.



CIP Place Part and Part Preview

The CIP Client installer installs files that are loaded by Cadence OrCAD Capture CIS and run from the Capture environment.

Note: When using OrCAD CIP Web application version 17.4.5 or higher, the CIP Client plugin must also be 17.4.5 or higher.

2 Client Installation and Setup

This Client Installation Guide provides the following instructions:

1. [Installation of CIP client files](#)
2. Set up [CIP URL](#) within CIP client installer or manually from CIP Setup
3. Set up [Library Builder](#) path within CIP client installer or manually from CIP Setup
4. Set up footprint viewer path
5. Set up and validation of [ODBC data source](#)
6. [Update CAPTURE.INI](#)

2.1 Required Information

To proceed with your client installation, you need the CIP Client installer as well as the following information:

- Server name of the SQL Database Server

The SQL server name is used to connect Capture CIS to the CIP database. View access to the CIP database is available through the CIS Explorer or CIP after installation is successfully completed.

- Server name where the configuration files are stored

The full path to the configuration file including the filename is added to your CAPTURE.INI file during the installation process

- Location of the Schematic Symbols and Allegro Libraries

The full path to the Schematic Symbols and Allegro Libraries are added to your CAPTURE.INI file during the installation process. This enables Capture CIS to use the symbols and footprints from the central library location.

Prerequisites

To fully obtain the benefits of product integration, configuration of CIP, Cadence OrCAD Capture CIS and OrCAD Library Builder and the following application products are required:

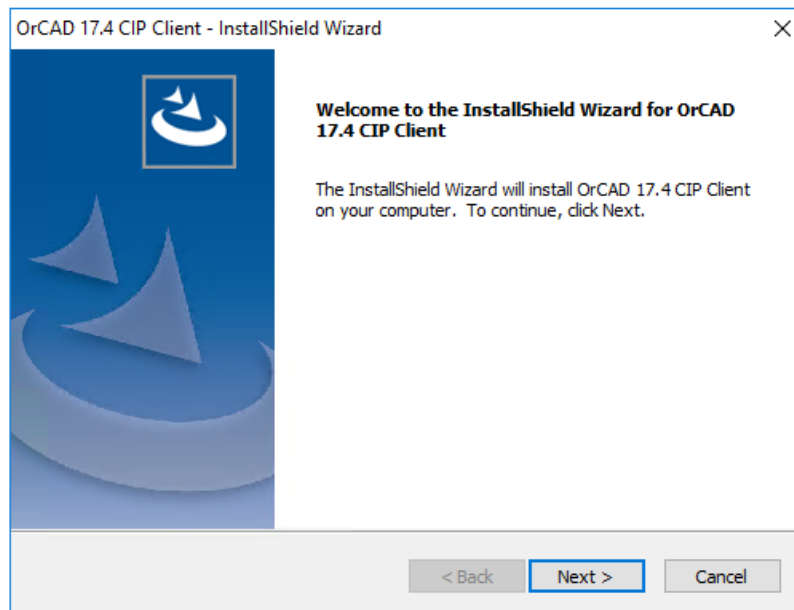
- Cadence OrCAD Capture CIS 17.4
- OrCAD Library Builder 17.4
- Windows 8.1 Pro or Above, Windows 10 Pro or Above (versions supported by Microsoft)
- Allegro Free Viewer 17.4
- Allegro PCB Editor 17.4 (Required only if using Compare Symbols to Footprint functionality)

2.2 Installing CIP Client

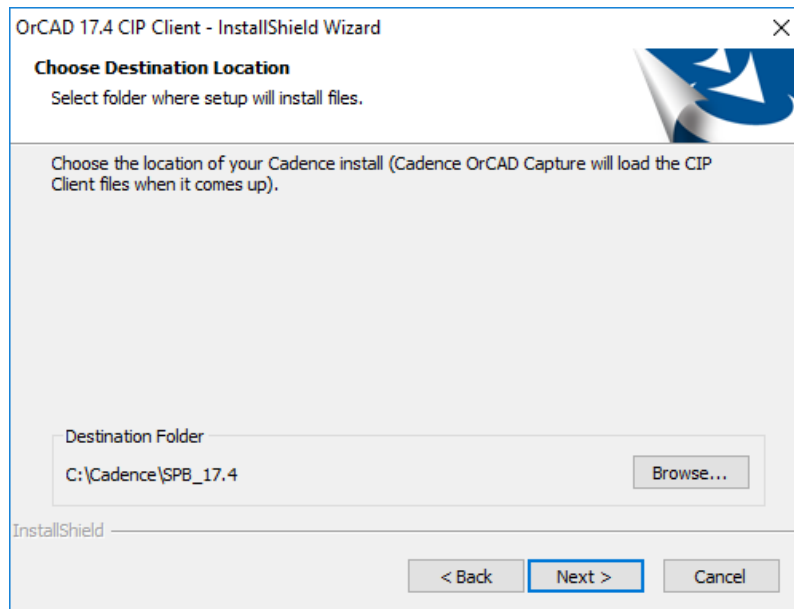
Note: When using OrCAD CIP Web application version 17.4.5 or higher, the CIP Client plugin must also be 17.4.5 or higher.

To start the client installation

1. Run the **OrCAD17.4-2019CIPClientSetup.exe**



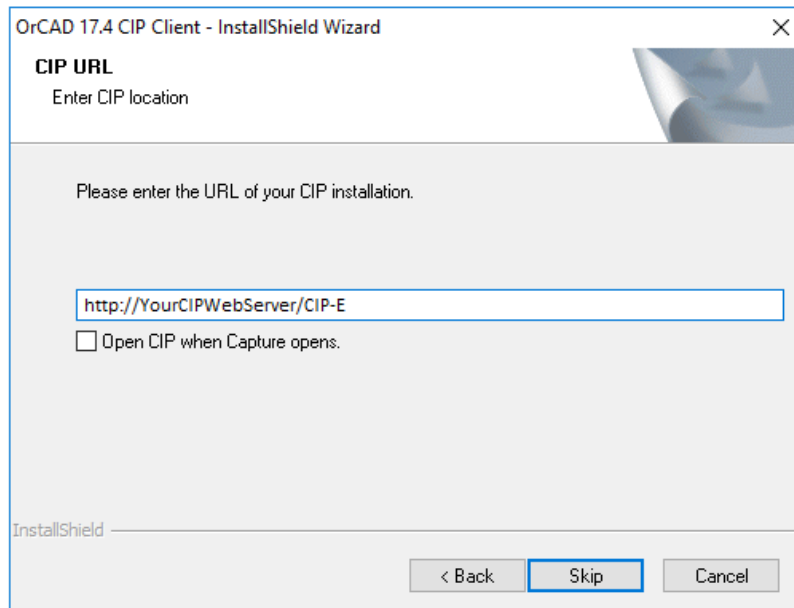
2. Click **Next** to continue.
3. Read the license agreement and click **I accept** before continuing with the rest of the installation.



4. Select the location where you want to install CIP Client.

The default install folder is the location from which OrCAD Capture loads TCL files. If an issue occurs when you choose the default location, see the [Troubleshooting Installation](#) section.

5. Click **Next** to continue to set up your company CIP web address.



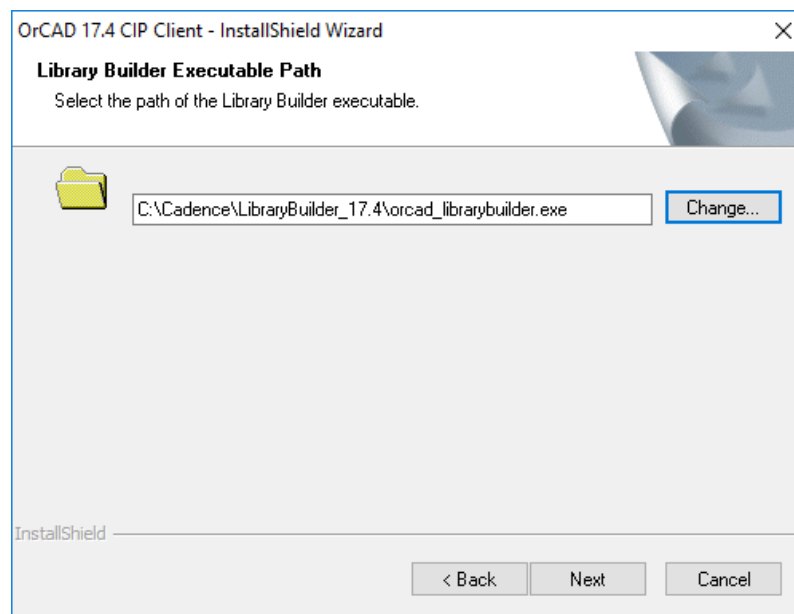
6. Enter the web address of your company's CIP server into the text input field.

Note: If the URL of your company's CIP server is unavailable at the time of install, you can leave the input field

blank and [configure the CIP URL](#) after installation is complete.

7. Click to place a check mark in the check box, **Open CIP when Capture opens**, if you want CIP to automatically start when you open Capture.
8. Click **Next** to continue.

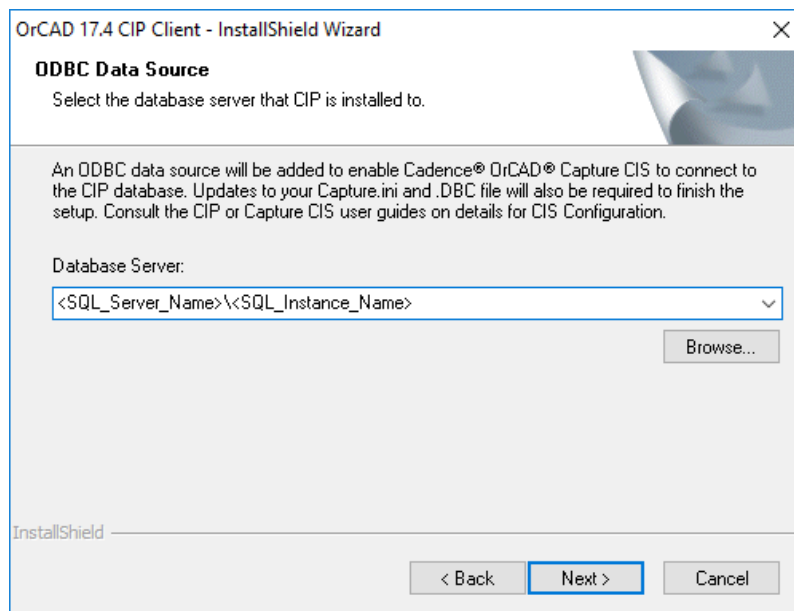
At the Library Builder Executable Path screen, add the path to your Library Builder executable. If you don't have Library Builder installed, skip this step. If you install Library Builder after this installation, you can [add the Library Builder executable location](#) at that point.



Set up Library Builder Executable Path with Installer

9. Click **Next** to continue.

The ODBC Data Source screen sets up your data source for the CIP database. If you already have the CIP-E_CIS_DB data source set up, leave the input field blank. If this is your first time connecting your Capture CIS to CIP, enter the SQL Server Name into the input field. If the SQL Server Name is either unavailable or you need to change this later, see the section regarding [manual set up of client ODBC data source](#) to change or set this up.



10. Click **Next** and then click **Install** to finish the installation.

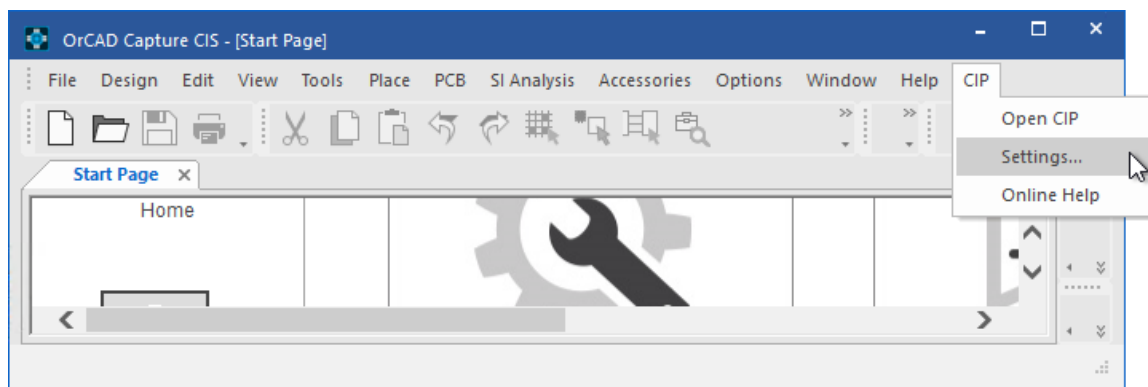
You can validate the creation of the ODBC data source by following the instructions for [manual setup of Client ODBC Data Source](#).

2.3 Updating CIP URL and Settings

To change the CIP URL

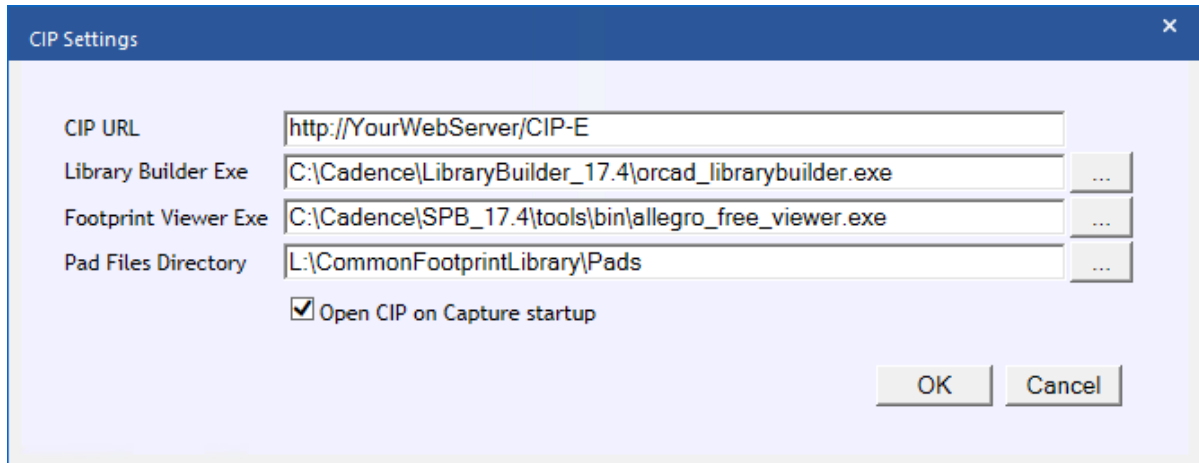
1. Open OrCAD Capture.
2. Select **CIP** from the top menu bar and then click **Settings....**

If **CIP** is unavailable from the top menu bar, see the [Troubleshooting Installation](#) section.



The CIP Settings pop-up opens as shown in the following figure.

3. Enter the web address of your company's CIP. If you want CIP to automatically open when you open Capture, select the check box, **Open CIP on Capture startup**.



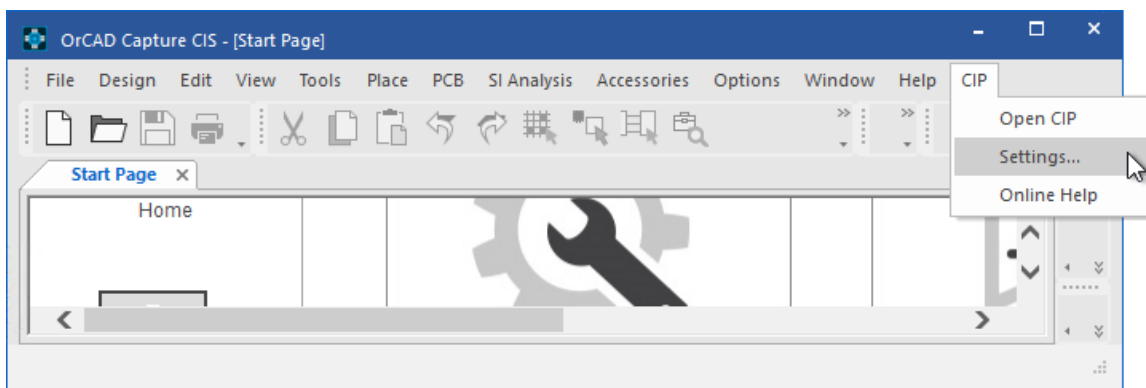
4. Click **OK** to save the settings.
5. To open CIP, select **CIP** from the top menu bar and then click **Open CIP**.

2.4 Updating Library Builder Executable Location

To change the Library Builder executable

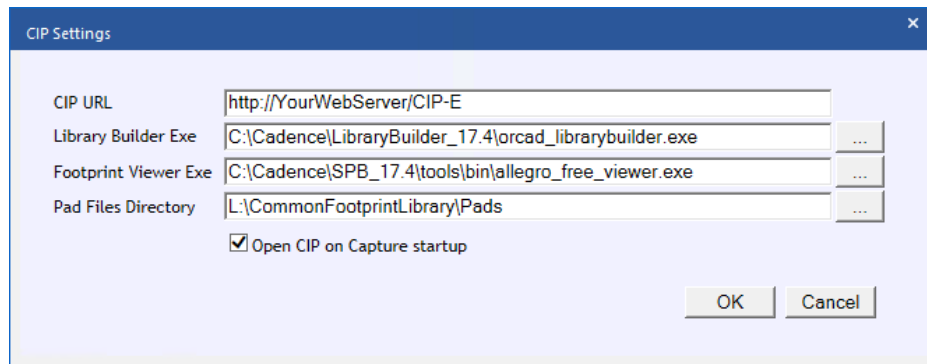
1. Open OrCAD Capture.
2. Select **CIP** from the top menu bar and then click **Settings....**

If **CIP** is unavailable from the top menu bar, see the [Troubleshooting Installation](#) section.



The CIP Settings pop-up opens, as shown in the next figure that follows.

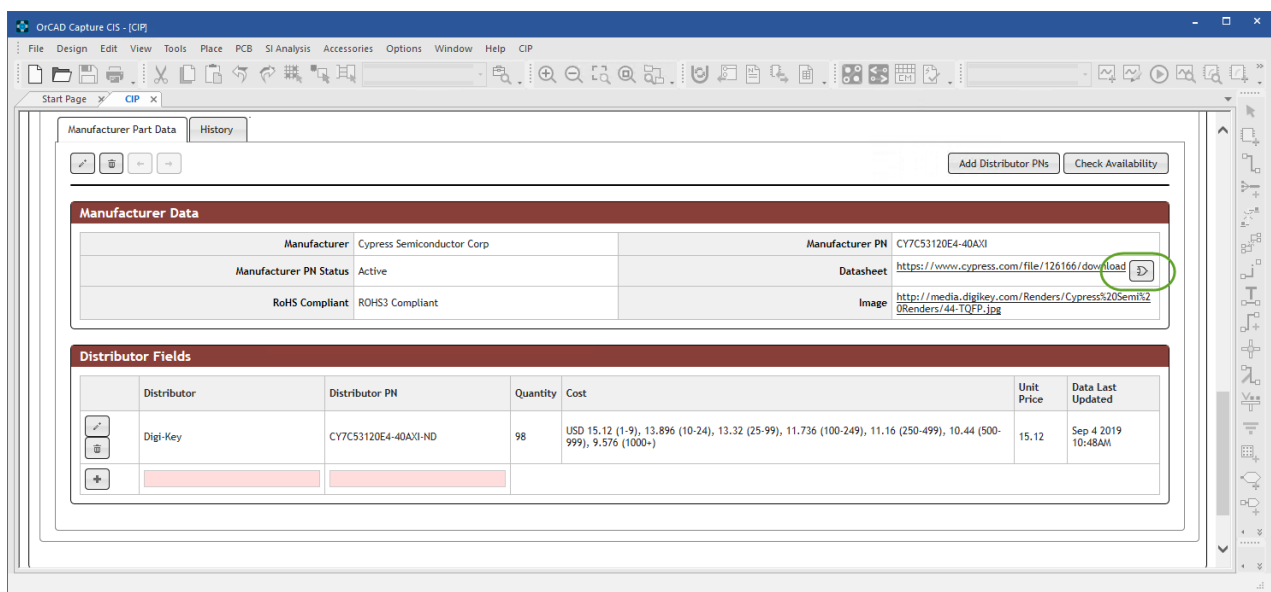
3. Enter the path of your Library Builder executable or select the ellipsis button to navigate to your Library Builder executable.
4. Enter the path to the executable file for your Footprint Viewer if you want to setup footprint previewing.
5. If you are creating footprints using Library Builder, enter the Pad Files Directory.
6. Click **OK** to save the settings.



CIP Set Up Screen

7. To open CIP, select **CIP** from the top menu bar and then click **Open CIP**.

The Library Builder executable will be open when you select the Library Builder button, as shown in the following figure.



Library Builder Button Shown Inside CIP

2.5 Manual Setup of Client ODBC Data Source

The instructions that follow guide you through the creation of the Client ODBC data source. These instructions can also validate the data source as well.

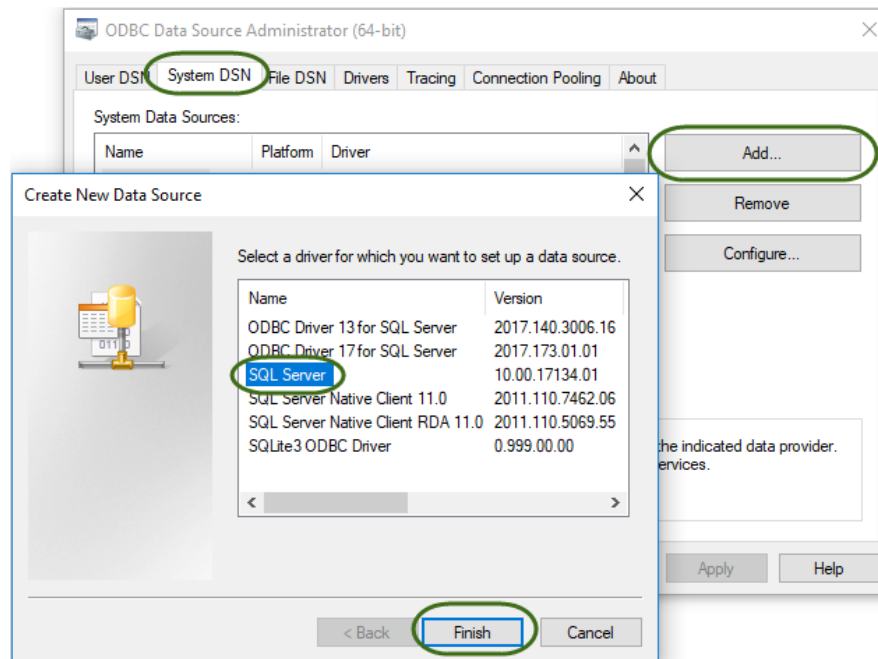
If users are unable to complete this procedure, verify the user has local administrative permissions on the client machine.

To open the ODBC Data Source Administrator

1. Select the menu items, **Start > Control Panel > Administrative Tools > Data Source (ODBC)**.

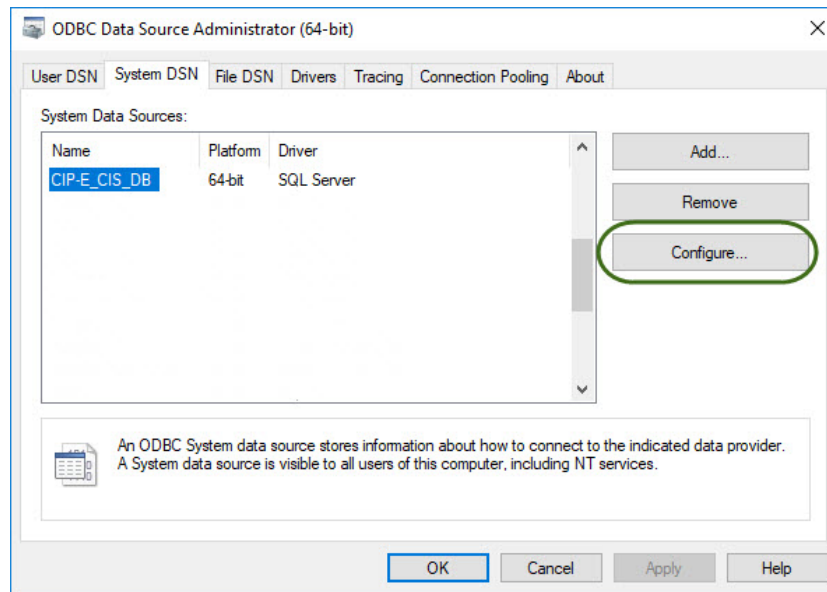
Note: Use the 64 bit ODBC data source.

2. If not configured with the CIP Client installer, click on the **System DSN** tab.
3. Click **Add**.
4. Select **SQL Server** and click **Finish**, as shown in the following figure.



Creating an ODBC Data Source

5. If you already have CIP-E_CIS_DB created, select **CIP-E_CIS_DB** and then click the **Configure...** button.
6. Follow the rest of the instructions in this section to verify that the ODBC data source is correct.

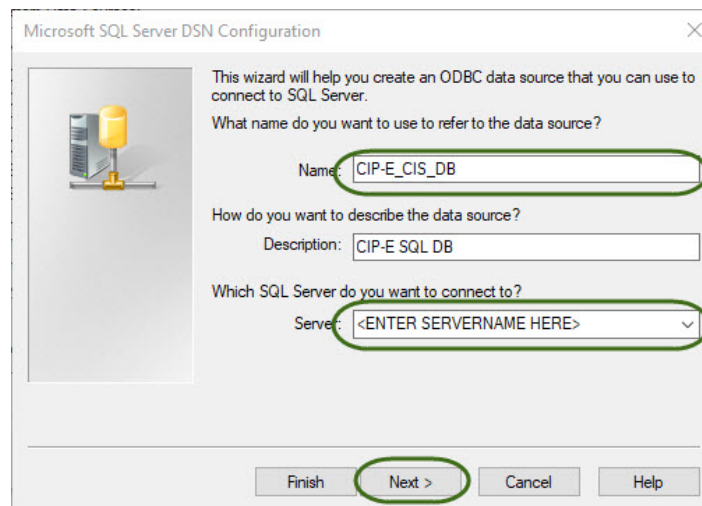
**Configure ODBC Data Source**

7. Enter the following information:

Data Source Name: CIP-E_CIS_DB

Note: All CIS Users must use the same data source name.

- Description (Optional)
- The name of the SQL Server hosting the CIP-E SQL Database.

**ODBC Name and SQL Server Database Selection**

8. Click **Next** to continue.

You will next need to authenticate to the CIP-E SQL database.

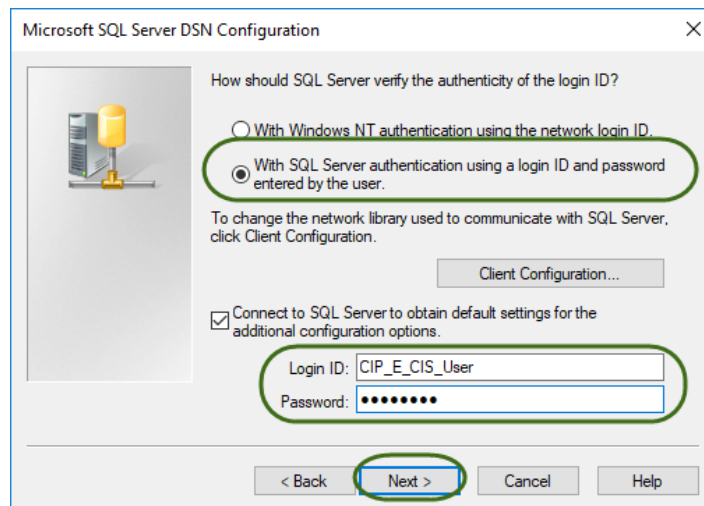
9. Select **With SQL Server Authentication...** and enter the username and password shown below. This username and password will be needed to access the CIP_E database from CIS.

If the password has been changed after installation, you will need to obtain the new password your database administrator. The password that comes pre-installed with the software is as follows:

Username: CIP_E_CIS_User

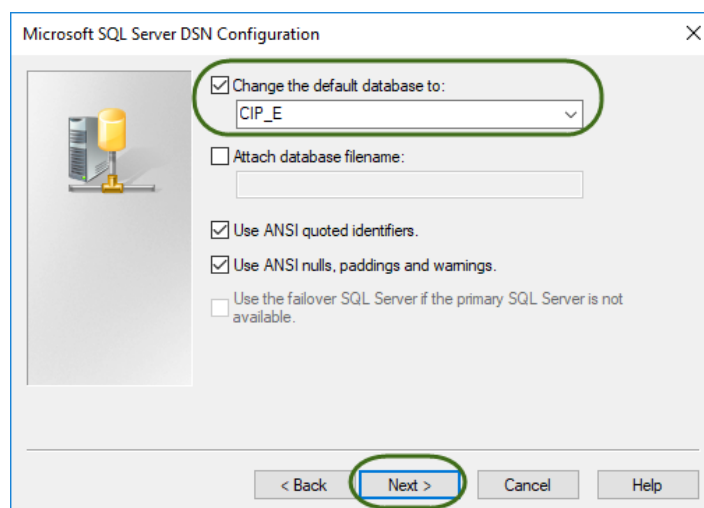
Password: Test1234

Note: The CIP_E_CIS_User account does not have full access to the CIP_E database. Access to the SQL server and any database is normally controlled by a company's IT or DBA. Users needing to import data should contact the IT or DBA for access.



Set Authentication Mode, Login and Password

10. Click **Next** and ensure that the default database is CIP_E.



Set Default Database

11. Click **Next**, then click **Finish**. Click **OK**.

You will now see your new connection in the **System DSN** tab. Click **OK** to close the ODBC Data Source Administrator.

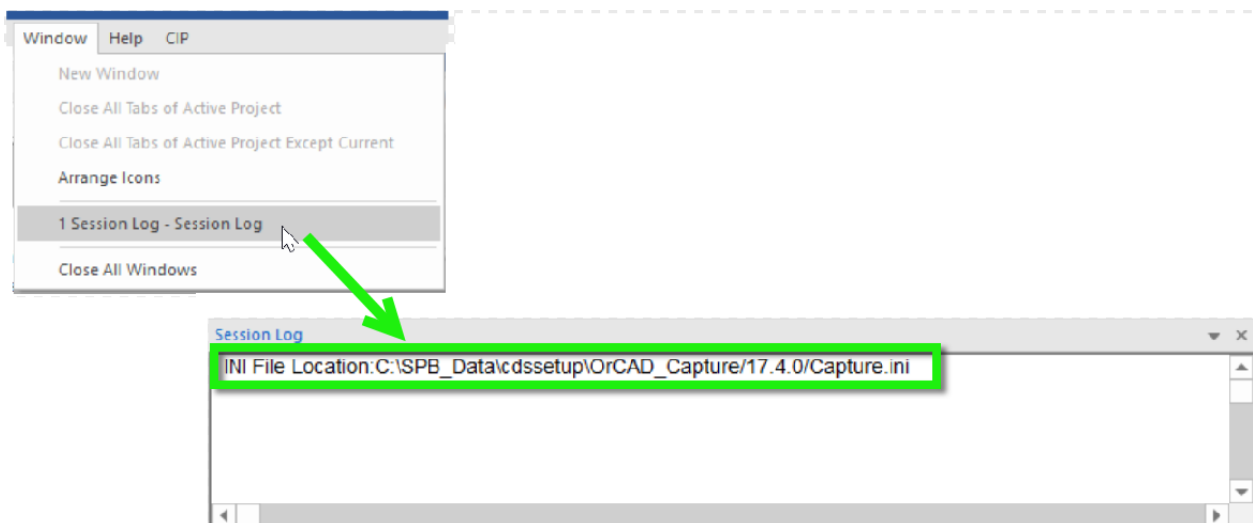
2.6 Updating the CAPTURE.INI File on a Local Client machine

OrCAD Capture CIS uses the CAPTURE.INI each time it opens. The CAPTURE.INI file needs to correctly identify the path to your DBC file and library directories, or you need to edit the file. Each time you place a part from either CIS Explorer or CIP, Capture uses the DBC file and library directory identified in your CAPTURE.INI file.

Before you update the CAPTURE.INI file, be sure to create a backup copy of the CAPTURE.INI.

To update the CAPTURE.INI file

1. Identify the exact CAPTURE.INI file used by OrCAD Capture by starting Capture and selecting **Windows > Session log** to open the session log.



2. Create a backup copy of your CAPTURE.INI file.
3. Close Capture.
4. Open the CAPTURE.INI file. A SampleCapture.ini may be downloaded using the CIP web help.
5. Find the corresponding sections in your CAPTURE.INI file that identify path directories.

For example: The highlighted paths in the following example need to be modified with your UNC path. If any of these do not exist in your CAPTURE.INI file, you may add them anywhere after the line that contains "Version=".

```
[Part Management]
Configuration File=\\<SERVER NAME>\CIP-E\Configuration_Files\<NAME OF DBC FILE>
TABLES OPTION=TABLE,VIEW
[Footprint Viewer Type]
Type=Allegro
[Allegro Footprints]
Dir0=\\<SERVER NAME>\CIP-E\Starter_Library\Allegro_Library\symbols
[Part Library Directories]
```

```
Dir0=\\<SERVER NAME>\CIP-E\Starter_Library\Schematic_Symbols
```

6. Enter the appropriate file name for the <NAME OF DBC FILE> of the Part Management entry. The following four .DBC files are included with the CIP Web application installation:

- CIP-E V7.1 CIS DB.DBC

This DBC file is configured with out-of-the-box settings for CIP that includes distributor part information in the manufacturer display. Each distributor part information is shown on a separate line along with the corresponding manufacturer part information. If any of the user fields or other fields have an alias to another name, you will need to update the DBC file using CIS configuration option in Capture CIS.

- CIP-E V7.1 CIS DB_NODISTRIB.DBC

This DBC file is configured with out-of-the-box settings for CIP that does not include distributor part information in the manufacturer display.

- CIP-E V7.1 CIS DB_WITHCOMPLIANCE.DBC

This DBC file is configured with out-of-the-box settings for CIP with Compliance Module log in enabled. The DBC file configuration includes distributor part information in the manufacturer display.

- CIP-E V7.1 CIS DB_NORELATIONAL.DBC

This DBC file is configured with out-of-the-box settings for CIP without any relational table settings.

Note: If any of the user fields or other fields have an alias to another name, you will need to update the DBC file using the CIS configuration option in Capture CIS. Instructions that explain how to create and change .DBC files are located in the Capture CIS help for OrCAD CIS User Guide, in the Setting Database Table Property Options section.

As mentioned above, the .DBC files listed above are installed with the CIP Web Application. Contact your Web Server system administrator to obtain copies of these files.

7. Save the CAPTURE.INI file and open OrCAD Capture CIS.

Note: The first time a user opens the CIS Explorer Window, password entry for the CIP_E_CIS_User is required. The default username and password for the CIS Explorer Window are as follows:

```
Username: CIP_E_CIS_User  
Password: Test1234
```

After typing in the password, the user will be able to retrieve parts that are in the common CIP database.

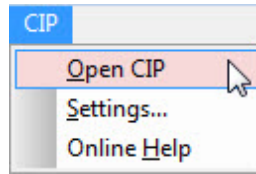
Contact your Admin if this password has changed.

3 Troubleshooting Installation Problems

The troubleshooting instructions that follow help you debug typical installation problems that are associated with the CIP Client installer. Please contact your Cadence channel partner if you have any questions or continue to have an installation issue.

Menu Item is Not Available or Not Correct

After you open Capture, the menu option to **Open CIP** is missing from the menu bar:

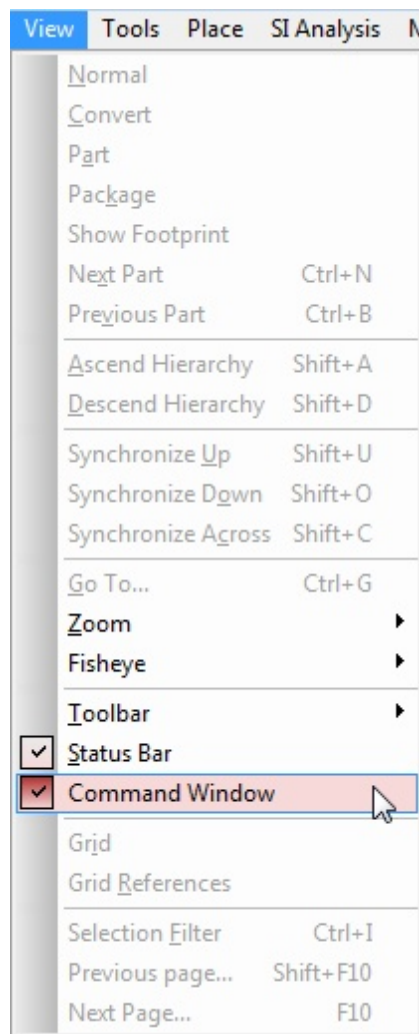


The version of CIP you are installing needs to match the version of Capture you are running. For example, if you are installing CIP client version 17.4 verify you are running OrCAD Capture 17.4.

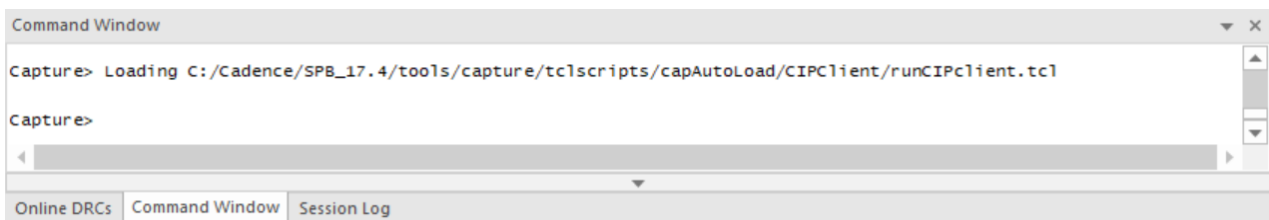
If you see CIP but the rest of the menus options are incorrect, make sure that you did not move any of the files after installation. If you did, remove all files and re-install. (Moving files can cause Capture to do partial loading of CIP Client files. Making copies of the files and putting them in various Cadence directories may also cause problems as you upgrade, since Capture will load TCL files from various locations.)

CIP Client must be installed to CDSROOT or Cadence installation folder.

If you are unsure whether the CIP client files loaded without errors, open your command window. While in Capture, select **View -> Command Window** (see figure below).



Locate where `runCipClient.tcl` is loading. The command window should look similar to what is shown in the following figure. If you don't see the following lines in your command window, then CIP client most likely did not install in a location where Capture loads TCL files from. If there are errors with this load file in the command window, you will need to follow the error message to see the source of the problem. You can try removing the installation and all files and install the files again, or contact your Cadence channel partner.



3.1 Technical Support

Please contact your Cadence channel partner with any questions you may have.

