

Component Information Portal

Client Installation Guide

Version 6.0

CIP Client

Installation Guide
Version 6.0

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1 CIP Client Getting Started Guide

The CIP Client is an application that is loaded by Cadence OrCAD Capture CIS that enables a user to be able to open CIP from inside Capture. Users will be able to preview parts from their libraries, place parts onto a schematic page and open Library Builder tool.

Click on this link to open or download this CIP Client Installation Guide as a [PDF](#).

1.1 Introduction

The CIP Client installation installs files that will be loaded by Cadence® OrCAD® Capture CIS and runs inside the Capture environment. This document will guide you through the installation and set up of your client machine to work with Capture and CIP. The setup will cover EDABuilder® if you already have this installed.

If you do not use or have Cadence OrCAD Capture installed on your PC, you will not need to install or configure the CIP client. You only need to bring up a Internet Browser to start using CIP.

The installation of Capture or EDABuilder will not be cover in this document. Please refer to each of their respective installation guides. The functionality described in the CIP User Guide which require these tools will not work. CIP functionality requires that CIP be pre-installed on a Web and SQL server. Please refer to the CIP Installation guide on installation and architecture information.

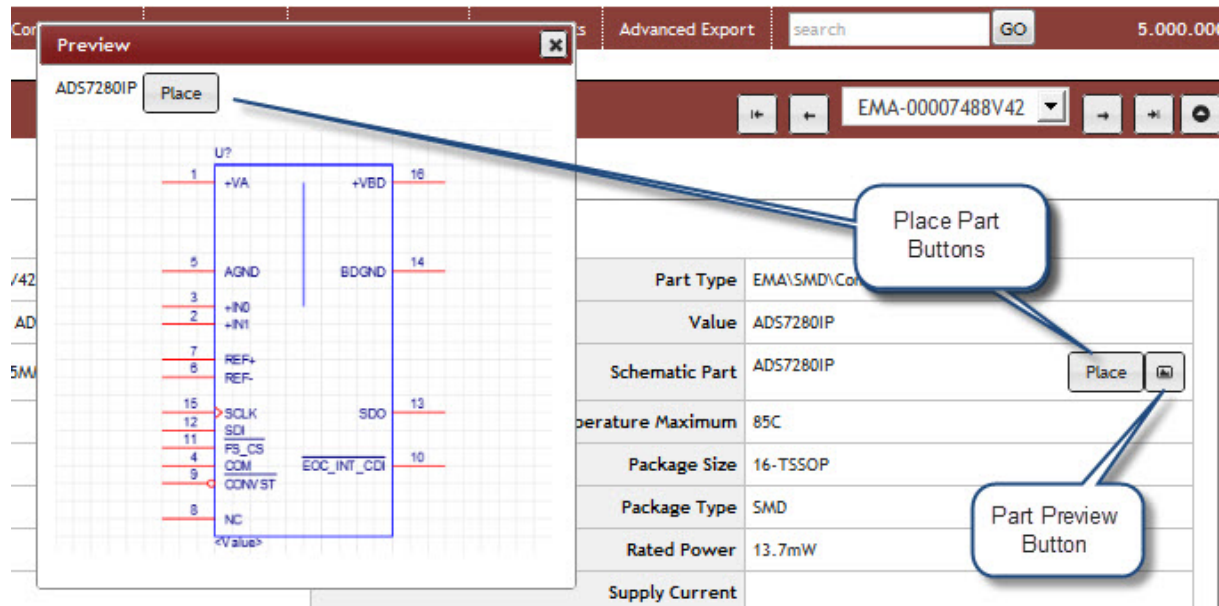
1.1.1 What is CIP Client

What is CIP Client and why do I need it?

CIP Client provides added functionality to CIP when it is opened in OrCAD Capture. If you don't use OrCAD Capture, you will not need this installation. The CIP Client works with the CIP server and will not install the CIP server application, which is a separate installation.

The functionality added by the CIP Client includes 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. See CIP User Guide for detail information on this feature. 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. See CIP User Guide for detail information on this feature. The symbol libraries used for place part 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. See CIP user guide for detail information on this feature. Footprint libraries used for footprint preview come from your Capture.ini file.
- **Build symbols and footprints using EDABuilder** - EDABuilder will open automatically to the manufacturer datasheet. See CIP User Guide for detail information on this feature.



CIP Place Part and Part Preview

1.1.2 Technical Support

If you need to contact EMA with any questions or issues, you may send emails to:

Techsupport@ema-eda.com

Or call the Hotline at: 1-585-334-6001 option 5.

1.1.3 Information you need before proceeding –

Before you proceed, you will need the following information:

➤ CIP Client installer

➤ Server name for the SQL Database Server

This will be required for Capture CIS to connect to the CIP database. The data from the CIP database will be viewable through the CIS Explorer or in CIP.

➤ Server name where the configuration files are stored

The full path to the configuration file including the filename will be added to your Capture.ini file

➤ **Location of the Schematic Symbols and Allegro Libraries**

The full path to the Schematic Symbols and Allegro Libraries will be added to your Capture.ini file. This will enable Capture CIS to use the symbols and footprints from the central library location.

Prerequisites

- To take advantage of the capabilities offered with the integration of CIP, Cadence OrCAD Capture CIS and EMA EDABuilder, you will need to have the following configuration:
- Cadence OrCAD Capture CIS 16.6 ISR 52 or higher
 - EMA EDABuilder 16.6.62 or higher
 - Windows 7, Vista, Windows 8, Windows 8.1, Windows 10
 - Allegro Free Viewer

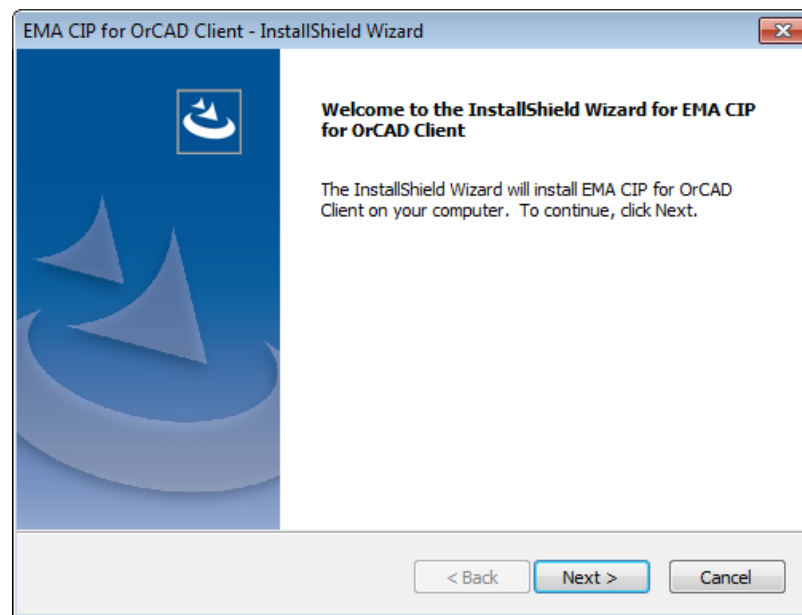
1.2 Client Installation and Setup

You will be guided through the following step as part of installation and setup:

1. [Installing client](#) files
2. Set up [CIP URL](#) within CIP client installer or updating manually
3. Set up [EDABuilder.exe](#) path within CIP client installer or manually
4. Set up footprint viewer path
5. Set up and validate [ODBC data source](#)
6. [Updating your Capture.ini](#)

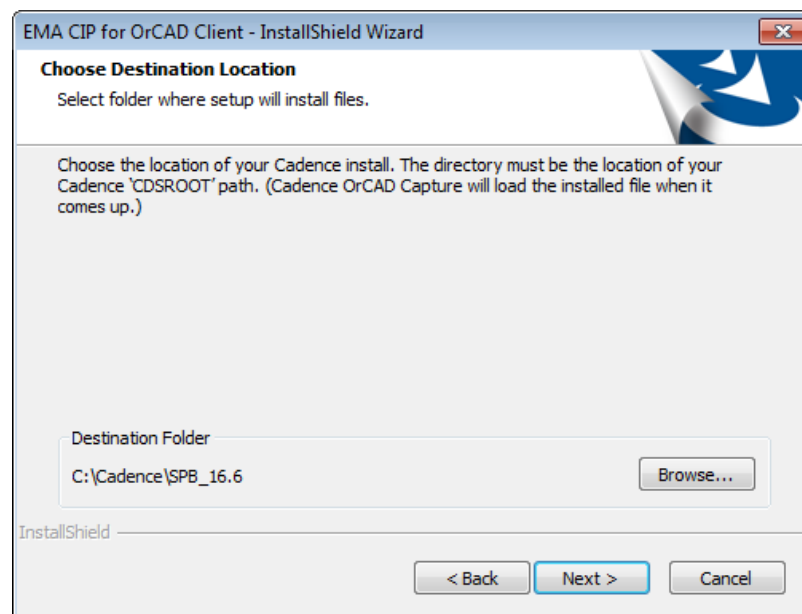
1.2.1 Installing the CIP Client

To start the client installation, run the **EMA CIP for OrCAD Client Setup.exe**.



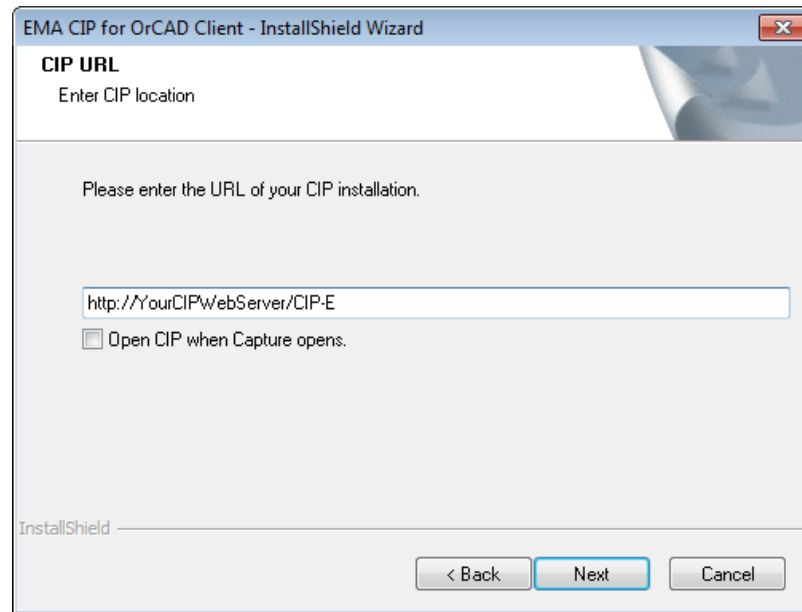
CIP Client Install Welcome

Click **Next >** to continue. You will need to read the license agreement and click "I accept" before continuing with the rest of the installation.



CIP Client Install Location

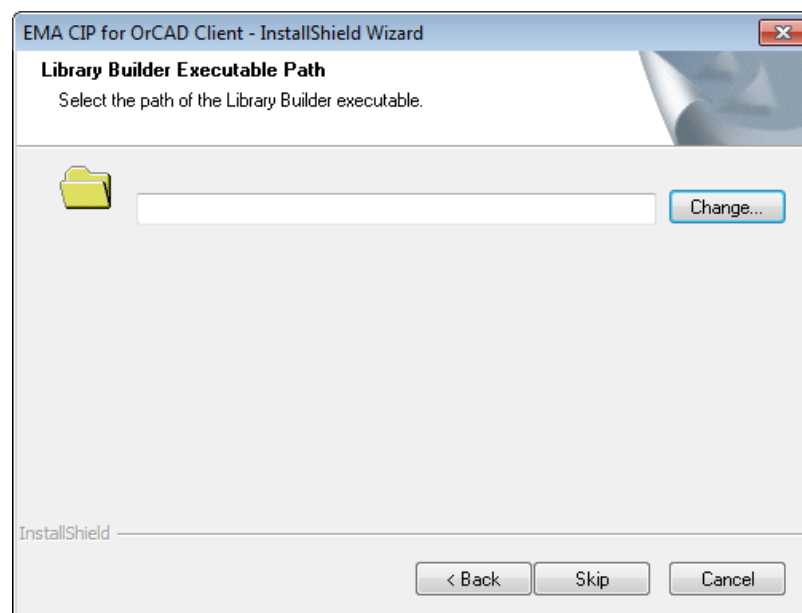
You will need to select the location in which files are to be installed. The selected location **must** be one of the locations that OrCAD Capture loads TCL files from. Click Browse to navigate to the folder. To verify that you have a valid location, open a Windows Explorer and navigate to the same location. You should see a folder named cdssetup that Capture is already using. If the path turns out to be incorrect, you can uninstall the CIP Client and reinstall to the correct path. See section on [Troubleshooting Installation](#) for problems you may have. Click **Next >** to continue to set up your company CIP web address.



Configure CIP URL with Installer

Enter the web address to your company's CIP at this popup. If you would like CIP to automatically open in Capture, you can select the checkbox and then Click **Next** to continue. If you do not know the URL at the time of install, you can **Skip** this step and [configure the CIP URL](#) after the installation CIP Client.

At the EDABuilder Executable Path screen, you can add the path to your EDABuilder executable. If you don't have EDABuilder installed, you can Skip this step. If you install EDABuilder after this installation, you can [add the EDABuilder executable location](#) after the installation of CIP Client.

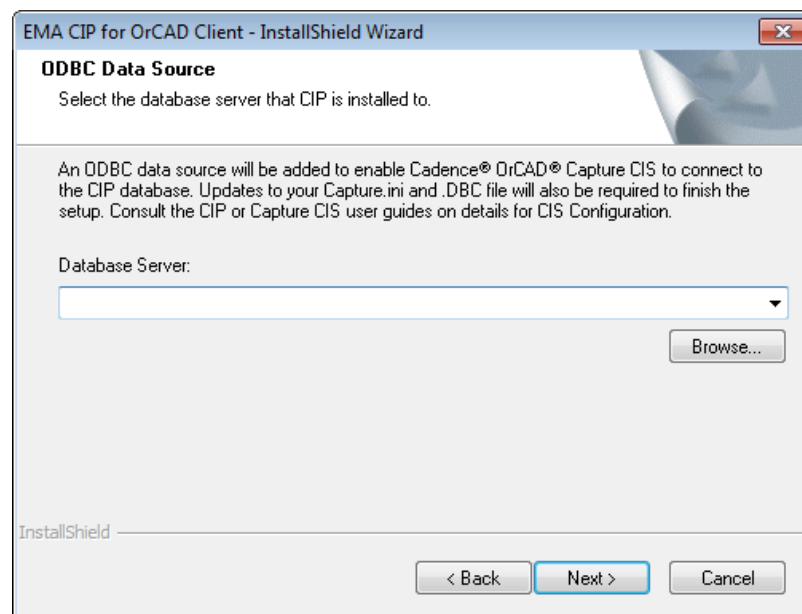


Set up EDABuilder Executable Path with Installer

Click **Change...** to select the EDABuilder app and then click **Next** or **Skip** if you haven't entered the path.

Click **Change...** to select the OrCAD Library Builder app and then click **Next** or **Skip** if you haven't entered the path.

The next popup sets up your data source to the CIP database. If you already have the CIP-E_CIS_DB data source set up, do not enter anything. If this is your first time connecting your Capture CIS to CIP, enter the *SQL Server Name* at this time. If you don't have the SQL Server Name or need to change this later, see section on [manual set up of client ODBC data source](#) to change or set this up.



ODBC Data Source Setup with Installer

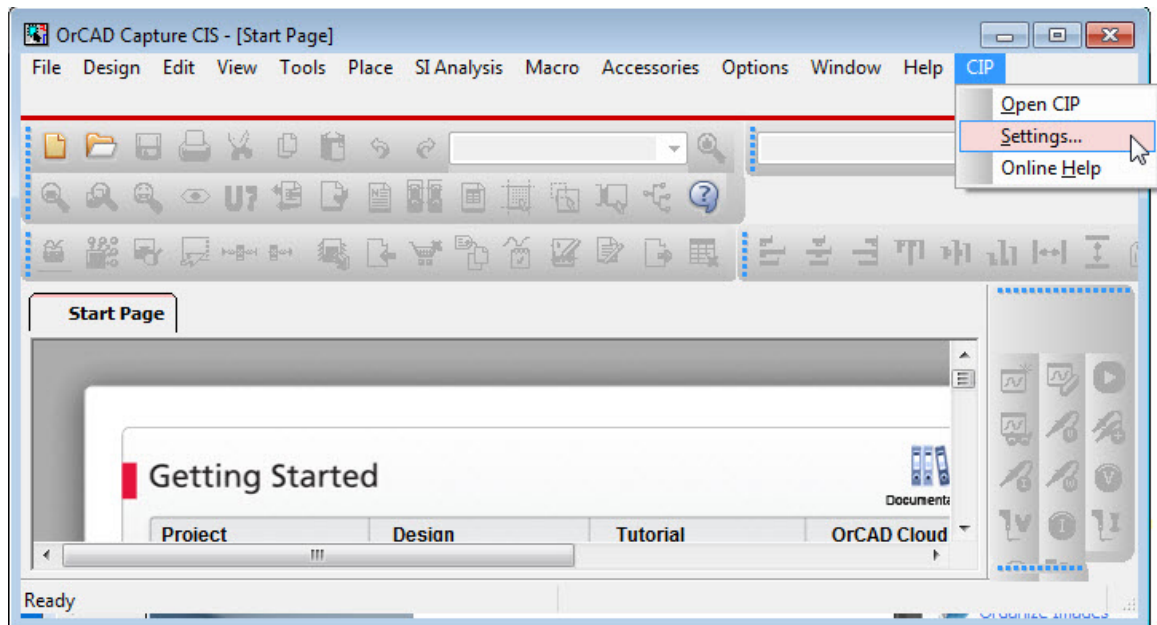
Click **Next** and then Click **Install** to finish the installation.

You can valid the creation of the ODBC data source by following instruction on [manual setup of Client ODBC Data Source](#).

1.2.2 Updating CIP URL and Settings

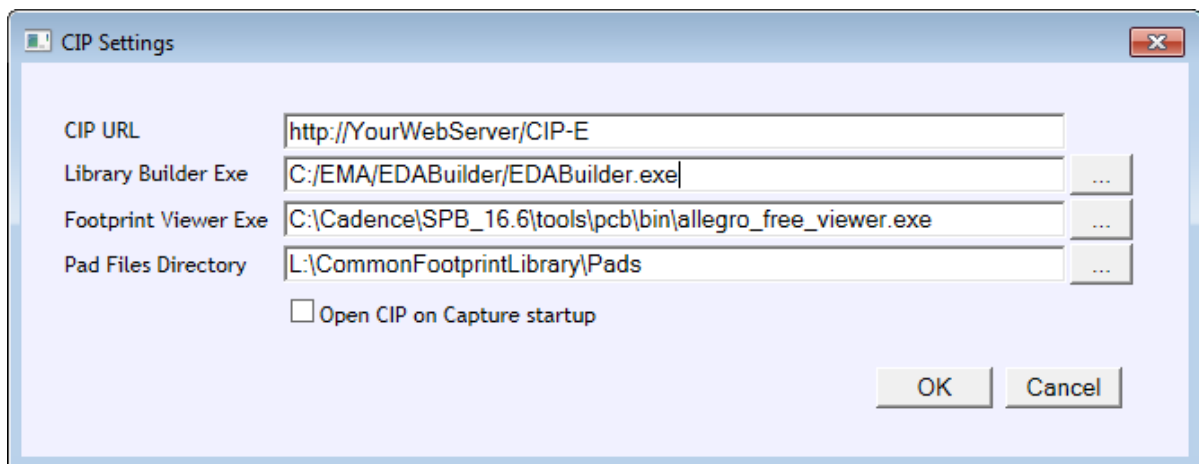
To change the CIP URL, you will need to bring up OrCAD Capture first.

Select **CIP** from the top menu bar and then select **Settings...** If you do not see **CIP** on the top menu bar, see section on [Troubleshooting Installation](#).



Capture Menu Bar with CIP

The CIP Settings pop up will appear as shown in the following figure. Enter the web address to your company's CIP. If you would like CIP to automatically open in Capture, you can select the checkbox and then Click **OK** to save the settings.



CIP Set Up screen

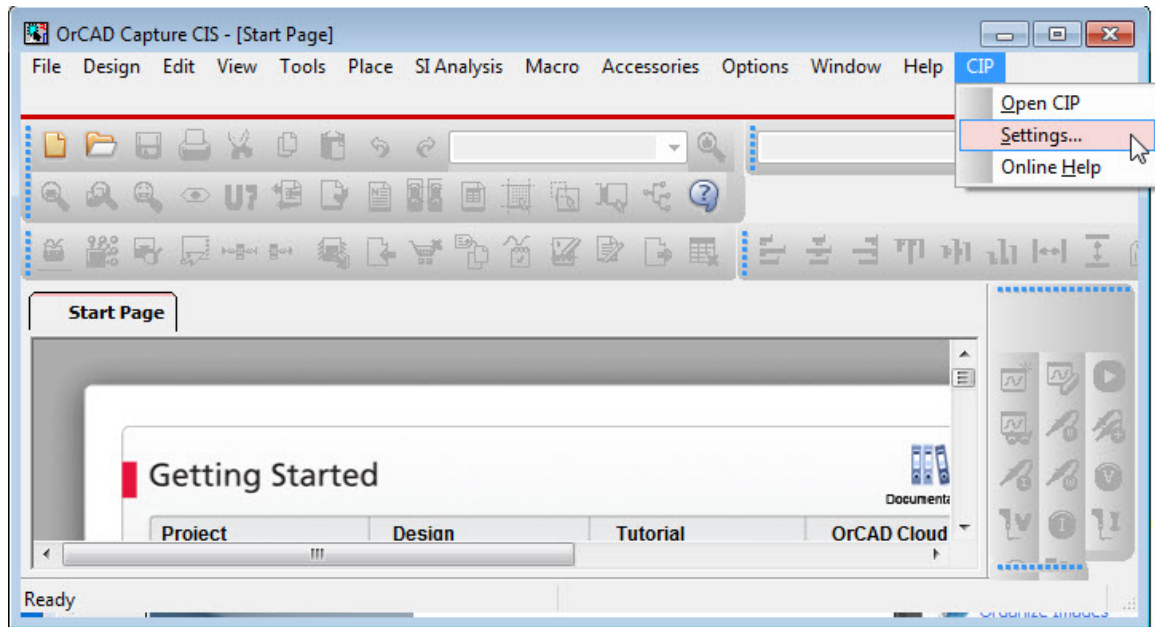
Setting for Library builder

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

1.2.3 Updating EDABuilder Executable location

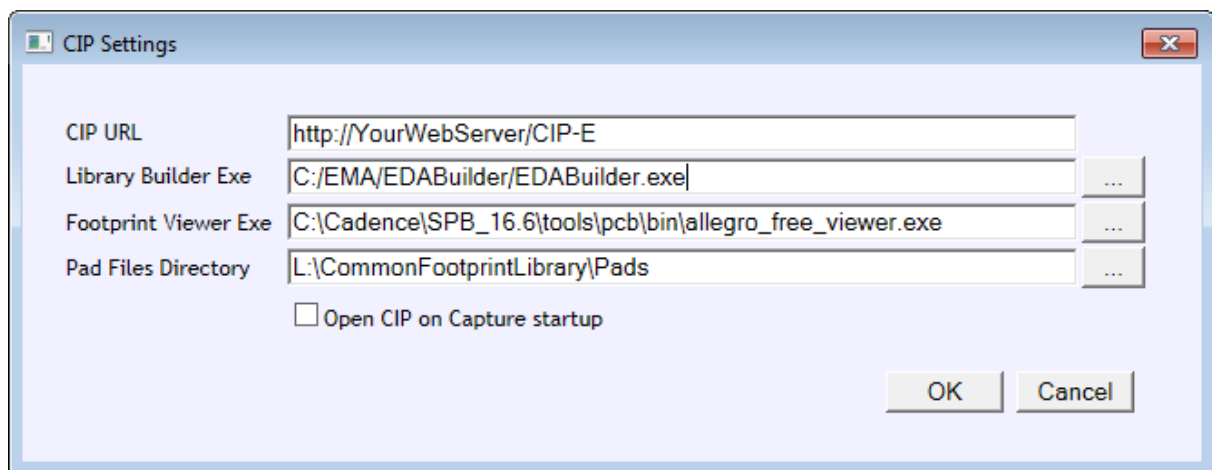
To change the EDABuilder executable, you will need to bring up OrCAD Capture first.

Select **CIP** from the top menu bar and then select **Settings....** If you do not see **CIP** on the top menu bar, see section on [Troubleshooting Installation](#).



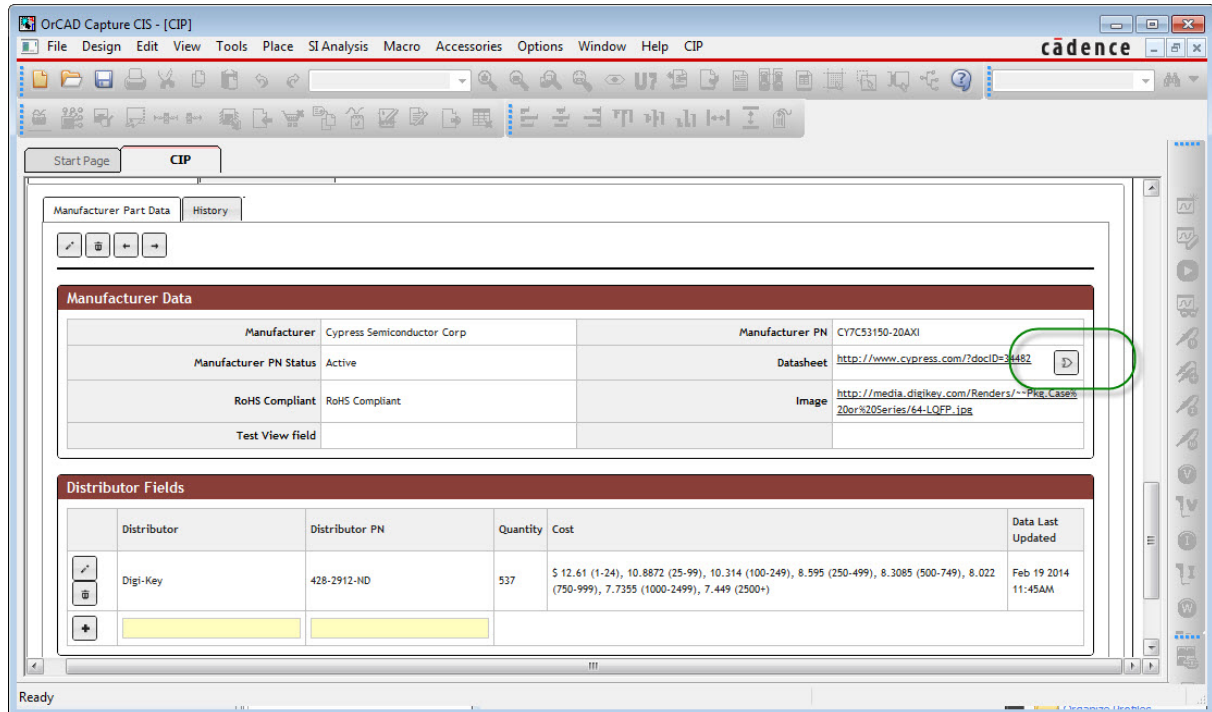
Capture Menu Bar with CIP

The CIP Settings pop up will appear as shown in the following figure. Enter the path to your EDABuilder executable or select the ... button to navigate to the path of your EDABuilder executable. Enter the Footprint Viewer executable path if you will be previewing footprints. If you are creating footprints using Library Builder, you should enter the and Pad Files Directory. Click **OK** to save the settings.



CIP Set Up screen

To open CIP, select **CIP** from the top menu bar and then select **Open CIP**. The EDABuilder executable will be open when you select the EDABuilder button as shown in the following figure.



EDABuilder Button Shown inside CIP

1.2.4 Manual Set up of Client ODBC Data Source

The following instructions will guide you through the creation of the Client ODBC data source. These instructions should be used for validating the data source as well. These steps will need to be performed on each of the client machines.

To bring up the ODBC Data Source Administrator,

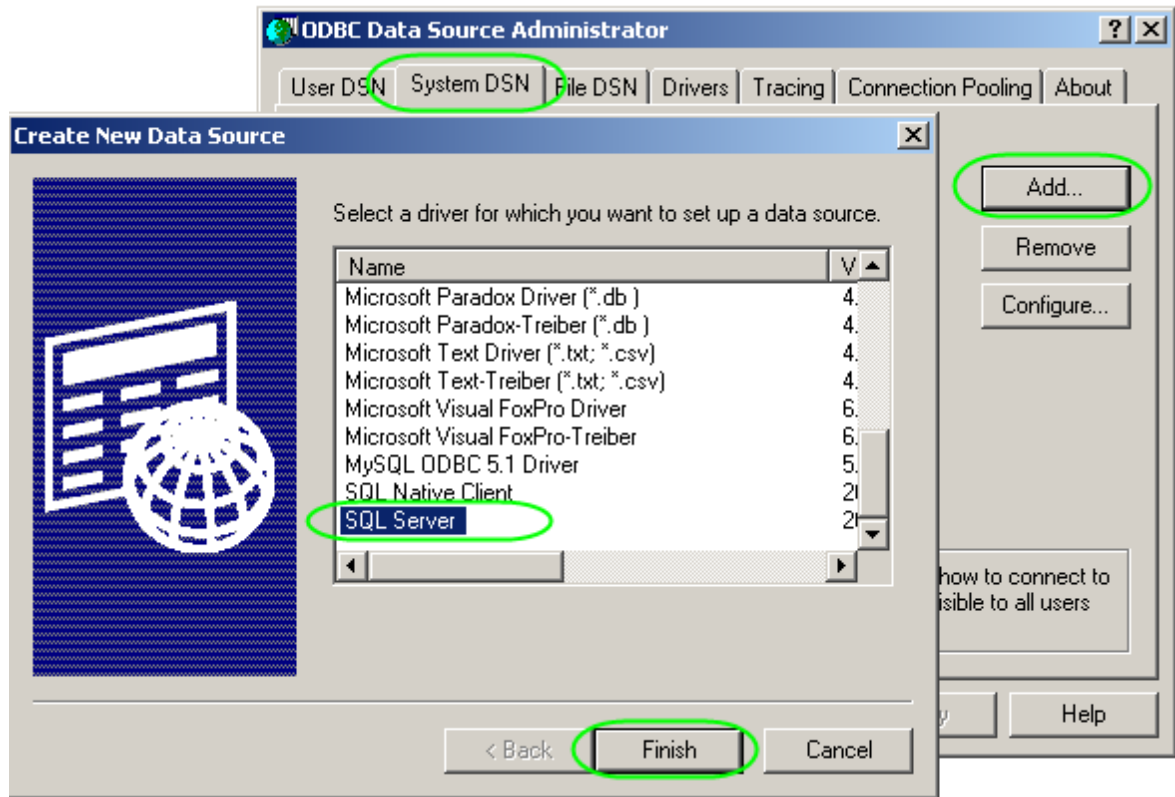
click on **Start -> Control Panel -> Administrative Tools -> Data Source (ODBC)**.

For users with 64 bit windows operating system, you will need to launch the data source administrator for Windows on Windows 64 bit. You will need to navigate to

`C:\Windows\SysWOW64`

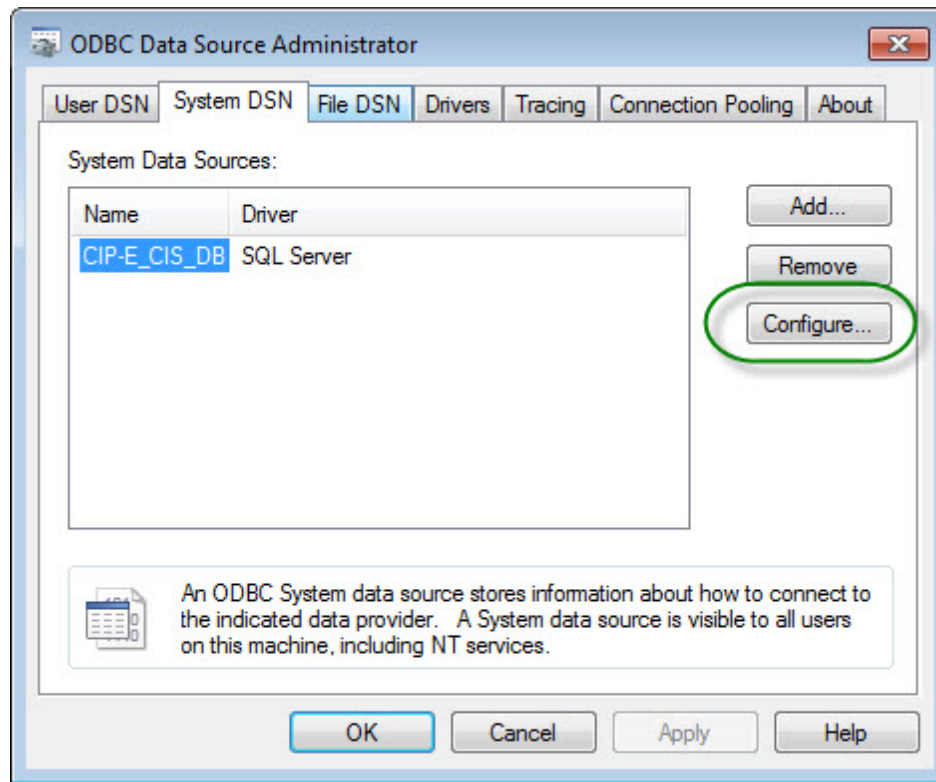
and launch `odbcad32.exe`.

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



Creating an ODBC Data Source

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



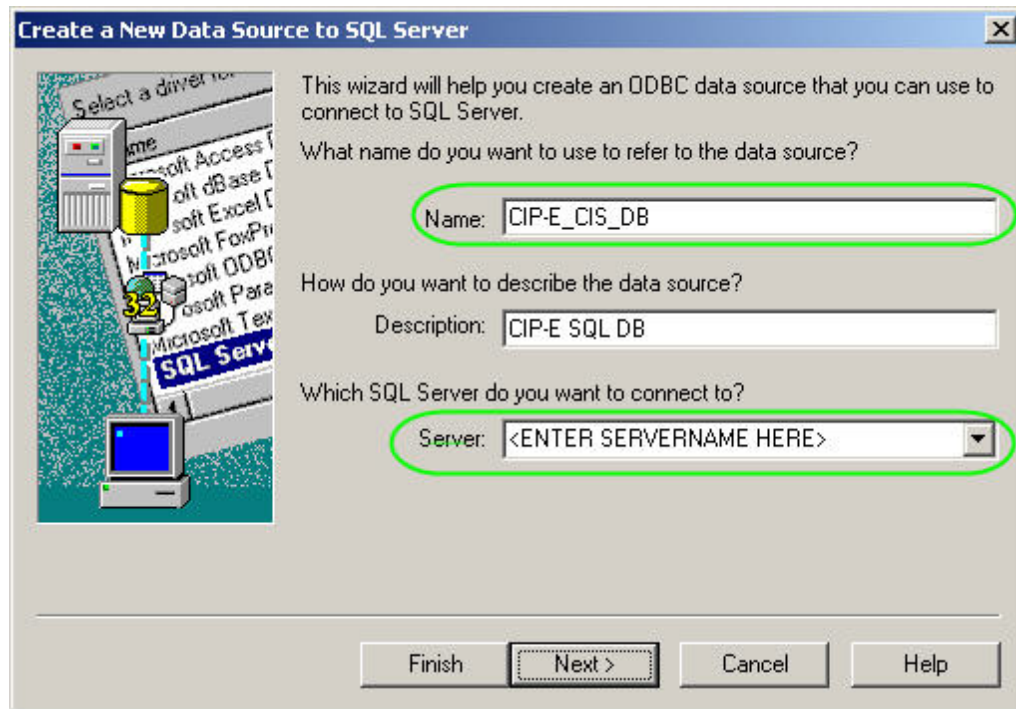
Configure ODBC Data Source

Enter the Data Source Name: **CIP-E_CIS_DB**

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

Enter a Description (Optional)

Enter the name of the SQL Server hosting the CIP-E SQL Database.



ODBC Name and SQL Server Database Selection

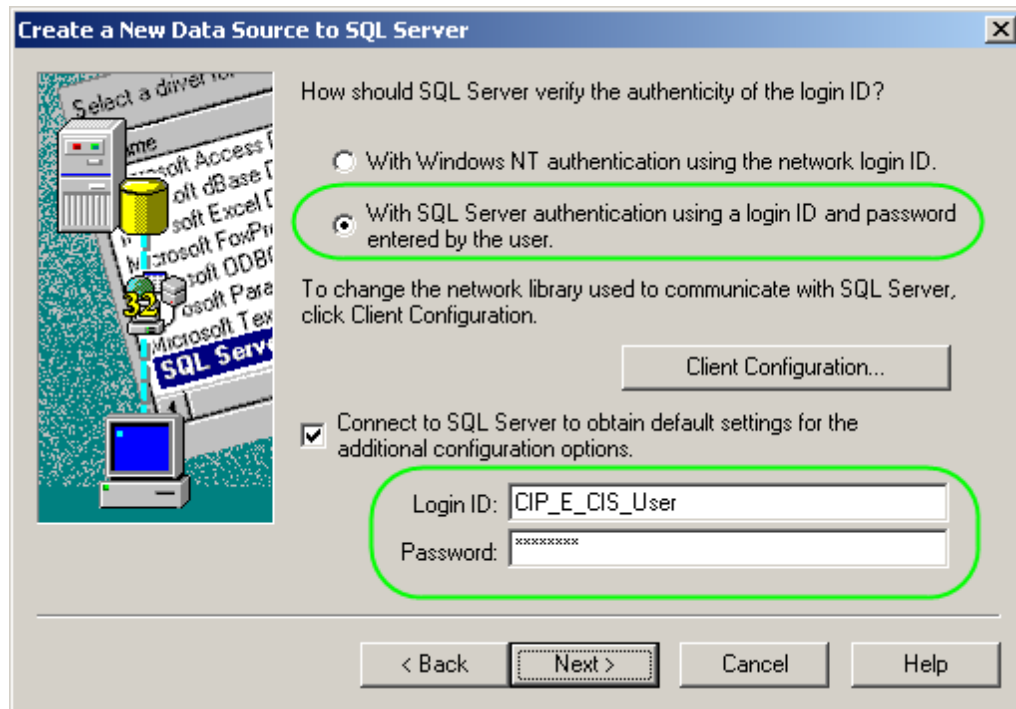
Click **Next >** to continue.

You will then need to authenticate to the CIP-E SQL database. Select "With SQL Server Authentication..." and enter the username and password shown below. This User Name and Password will be needed to access the CIP-E database from CIS.

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

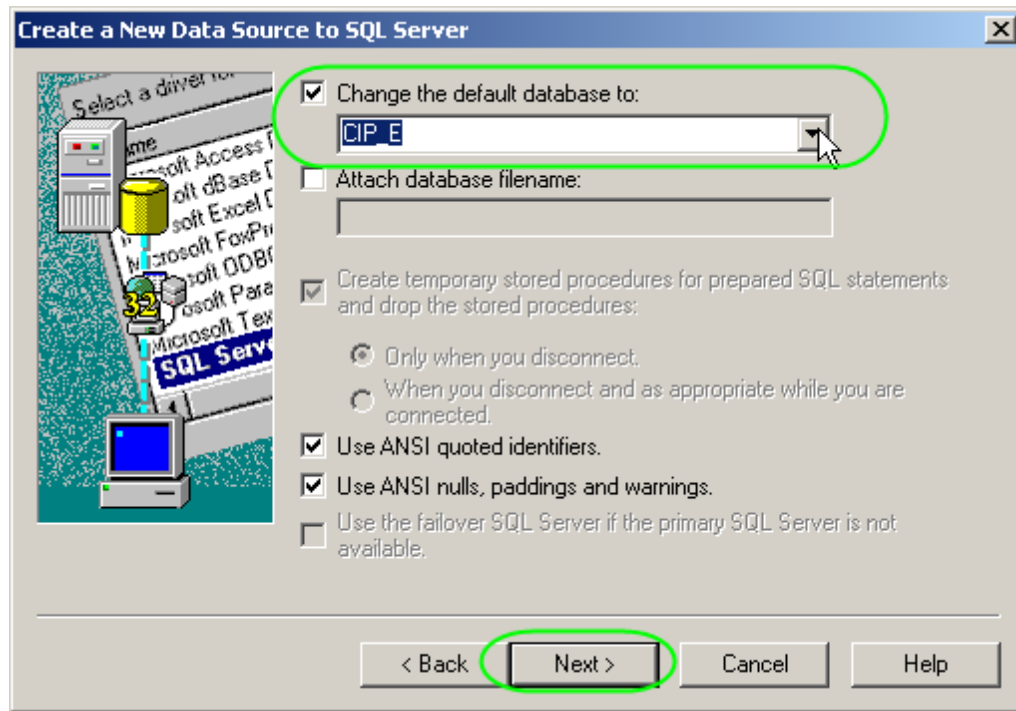
Username: CIP_E_CIS_User

Password: Test1234



Set Authentication Mode, Login and Password

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



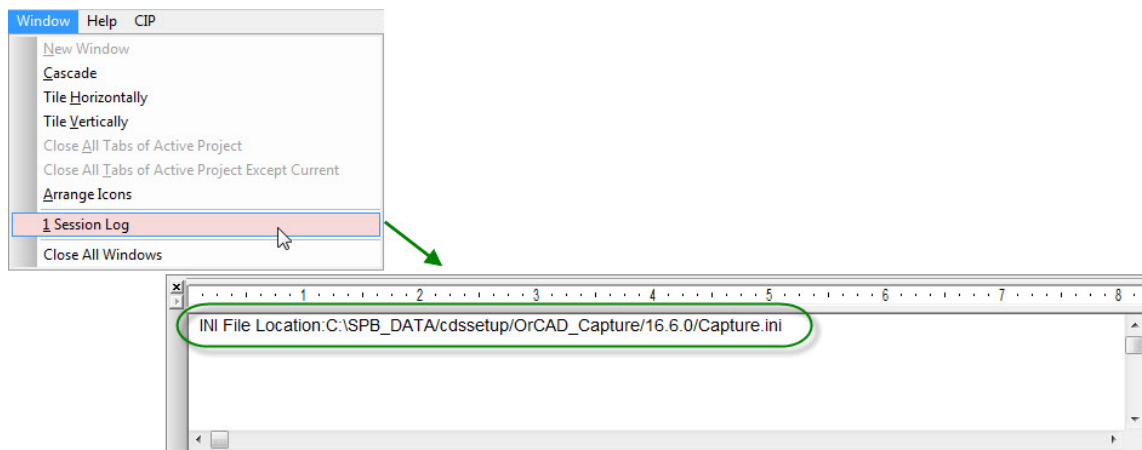
Set Default Database

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.

1.2.5 Updating the CAPTURE.INI file on a local client machine

The CAPTURE.INI is used by OrCAD Capture CIS each time it is opened. Information that is relevant pertaining to CIP are shown below. Whether you are placing part from CIS Explorer or from CIP, the DBC file and library directories identified in your CAPTURE.INI file are used.

You will need to update their CAPTURE.INI file. First, you should create a backup copy of the CAPTURE.INI file before proceeding. You can find the exact CAPTURE.INI file used by OrCAD Capture by starting Capture and open the session log by selecting **Windows > Session log**.



Opening Capture Session Log

You will need to close Capture before modifying your CAPTURE.INI file. Next, you will need to open the file, find the corresponding sections in your Capture.ini. The highlighted paths in the following example will need to be modified with your UNC path. See highlighted example below. If any these do not exists in your Capture.in, 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>
[Footprint Viewer Type]
Type=Allegro
[Allegro Footprints]
Dir0=\\<SERVER NAME>\CIP-E\Allegro_Library\symbols
[Part Library Directories]
Dir0=\\<SERVER NAME>\CIP-E\Schematic_Symbols
```

You will need to enter the appropriate filename for the <NAME OF DBC FILE> of the Part Management entry. Two .DBC files comes with this installation:

- ❖ CIP-E V6.0 CIS DB.DBC (
 - This DBC file is configured with out of box configuration of 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 userfields or other fields have been alias to another name, you will need to update the DBC file using CIS configuration option in Capture CIS.
- ❖ CIP-E V6.0 CIS DB_NODISTRIB.DBC
 - This DBC file is configured with out of box configuration of CIP that does not include distributor part information in the manufacturer display.

Note: If any of the userfields or other fields have been alias to another name, you will need to update the DBC file using CIS configuration option in Capture CIS. Documentation on how to create and change DBC files are located in the Capture CIS help for OrCAD CIS User Guide > Setting database table property options.

These files are installed with the CIP Web Application. Contact your Web Server system administrator to obtain copies of these files.

Save the CAPTURE.INI file and launch OrCAD Capture CIS.

The first time that a user brings up the CIS Explorer Window, the password for the CIP_E_CIS_User will be required. Consult your Admin if password has been changed.

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

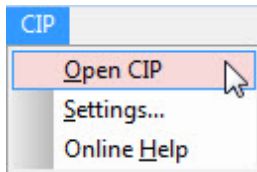
After typing in the password, the user will be able to bring up parts that are in the common CIP database.

1.3 Troubleshooting Installation Problems

These troubleshooting instructions will guide you to debug typical installation problems related to the CIP Client installer. Please contact techsupport@ema-edu.com if you are still having problems or have any questions.

1. Menu Item is not available or not correct

After bringing up Capture, you do not see the following menu as part of your menu bar.

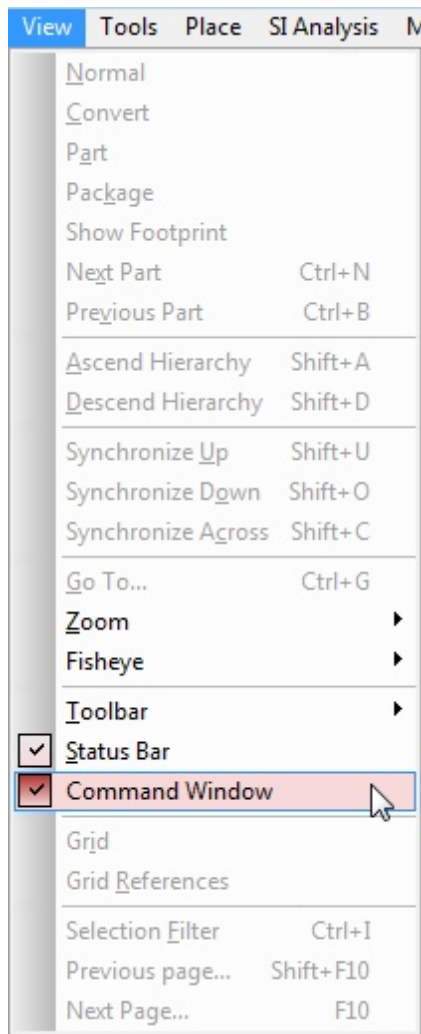


Check to make sure that you are running OrCAD Capture 16.6 ISR 52 or higher.

If you see CIP but the rest of the menus 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 since it requires files from the Cadence installation.

If you are not sure whether files have been loaded without errors, bring up the 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 EMA Technical Support.

