



EMA DESIGN AUTOMATION

Component Information Portal™ (CIP-E)

Enterprise Edition

Installation Guide Version 4.2

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Introduction

This document is intended as a guide for installing the Component Information Portal™ - Enterprise Edition (CIP-E). CIP-E complements the Cadence™ OrCAD® Capture CIS product. No separate client tools are required to run CIP-E. Users can simply invoke CIP-E using Microsoft Internet Explorer (Version 7 and higher).

Please refer to the CIP User Guide for information on how to use both CIP and CIP-E.

CIP-E consists of 3 components:

- CIP Web Engine – Web Portal to the CIS database
- CIS Database – Centralized SQL database for CIP/CIS and other users needing access to engineering data
- Libraries and Datasheets – Part Libraries (Schematic Symbols, PCB Footprints) and Files (Technical Datasheets) that are used in the electrical design process

Note: The CIP Web Engine will only work with the installed CIS Database.

Once CIP-E has been installed, it provides an interface for creating, modifying, and removing parts, without the need to access the master CIS database (directly) using native tools. CIP-E enables the general user to view data in the CIS database without consuming a CIS license. CIP-E also facilitates the process of converting temporary parts to formal parts. Users assigned to an administrative role can assign logins and passwords to those who will be using CIP-E.

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.

What's Included?

New Installation

Server Files

- CIP-E Installer – CIP-E.exe
- Starter Library Installer – CIP-E Starter Library.exe
- SAMPLE_CAPTURE.INI – Sample configuration file for viewing the installed CIP-E libraries and database in OrCAD Capture CIS.

Client Files

- CIP-E Client Getting Started Guide.pdf
- SAMPLE_CAPTURE.INI – Sample configuration file used for viewing the installed CIP-E libraries and database in OrCAD Capture CIS.

The **CIP-E Installer** will install the following:

- CIP-E Web Engine
- ODBC connection to the CIP-E SQL database (named CIP-E)
- Blank CIP-E SQL database (named CIP_E)
- Cadence OrCAD Capture CIS Database Configuration Files (.DBC)
- CIP-E User Guide
- End User License Agreement (EULA)

The **Starter Library Installer** will populate the blank CIP-E SQL database with sample parts and parametric data. It will also install Schematic Symbols, Allegro Libraries (PCB Footprints), and Technical Datasheets. A sample CAPTURE.INI file (SAMPLE_CAPTURE.INI) has been provided as a reference, for setting up OrCAD Capture CIS to point a Configuration .DBC File, Schematic Symbols, and PCB Footprints installed by the Starter Library.

Upgrade Installation

The CIP-E 4.2 Installer (CIP-E.exe) can only be used to upgrade 4.001.XXXX installations of CIP-E. If you have an earlier version of CIP-E, you will need to obtain 4.001.XXXX and upgrade to this version first. The Installer performs the following tasks when version 4.001.XXXX of CIP-E is encountered:

- Upgrades the structure of the CIP-E SQL Database (named CIP_E).
- Updates the CIP-E Web Engine to work with the latest database structure and include all of the new features available in version 4.2.
- Provides database configuration (.DBC) files to work with the latest CIP-E database for OrCAD Capture CIS versions 16.2, 16.3 and 16.5.
- Provides new CIP User Guide and End User License Agreement (EULA).

Minimum Requirements for Installing CIP-E

CIP-E requires the following system prerequisites:

Enterprise Edition System Requirements

CIP Web Server:

Compatible Microsoft Operating Systems	- Windows: 7, Vista, XP (SP2 or greater) - Windows Server: 2008 R2, 2008, 2003
Other Microsoft Components (All Required)	- Internet Information Services (IIS) 5.1 or greater .NET Framework 2.0 - ASP.NET AJAX 1.0 - Web Services Enhancements (WSE) 3.0 for Microsoft .NET
Hardware	- Processor - Minimum 500 MHz - Recommended 1GHz or greater - Hard Drive Space - Minimum 512MB - Recommended 1 GB or greater

CIP Database Server:

SQL Server with Database Tools (Management Studio)	- Minimum - Microsoft SQL Server 2005 or later - Email Notifications are not available with SQL Server Express versions
Compatible Microsoft Operating Systems	- Windows: 7, Vista, XP (SP2 or greater) - Windows Server: 2008 R2, 2008, 2003
Hardware	- Processor - Minimum 500 MHz - Recommended 1GHz or greater - Hard Drive Space - Minimum 4 GB Disk space will vary based on number of parts (4 GB should be sufficient)

CIP Client

Internet Browser	Microsoft Internet Explorer 7.0 or later
------------------	--

The libraries and files required by CIP-E do not have any special requirements. Adequate disk space will be required to house the files that the engineers will be storing. This can be sizable based on the number and size of the datasheets acquired from manufacturers.

As with the base OrCAD Capture CIS product, it is strongly recommended that libraries be placed on the same network as the CIS users, to minimize speed issues.

CIP Architecture

CIP Architecture

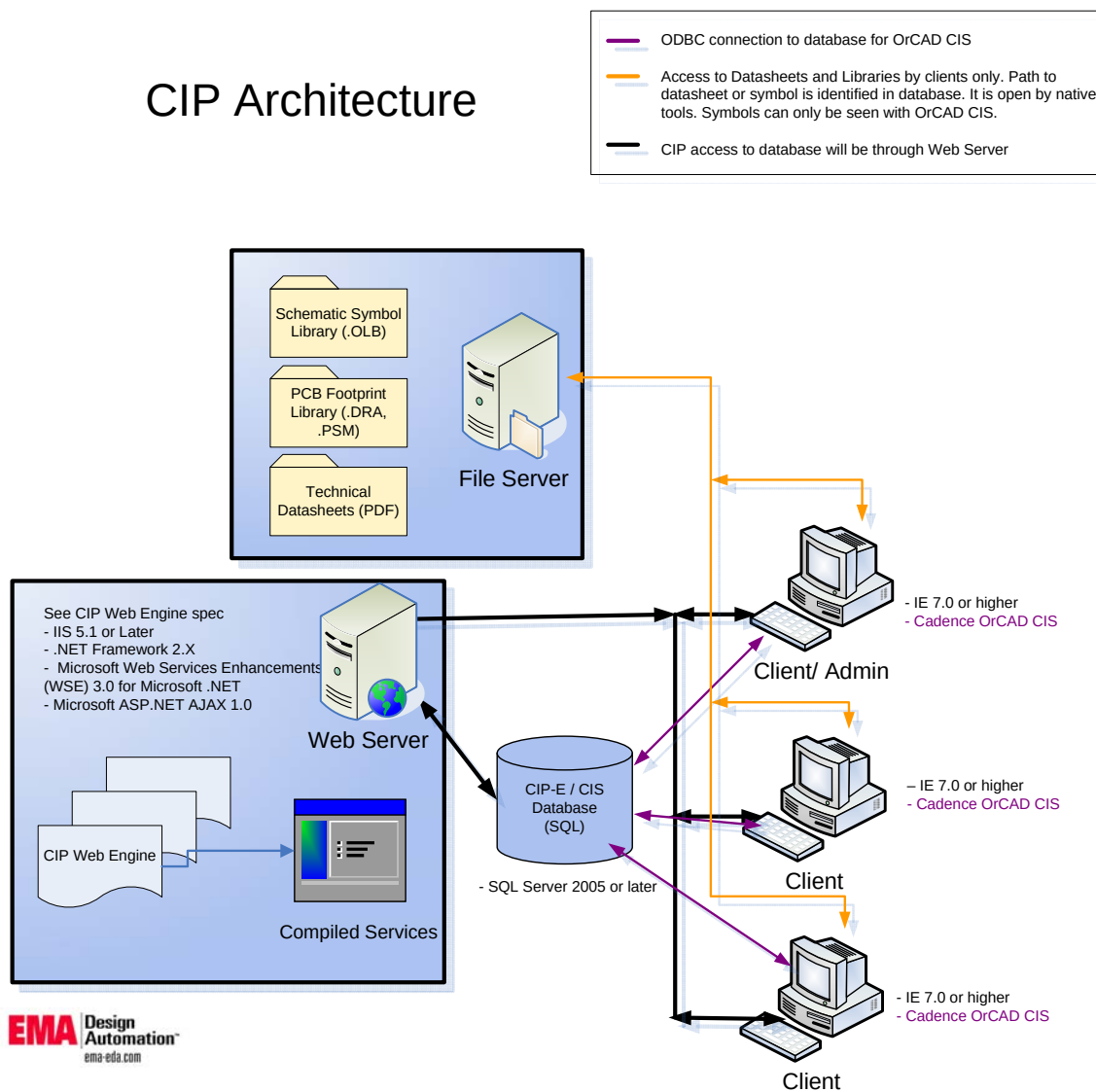


Figure 1: CIP-E Architecture Diagram

Preparing for Install

Before You Begin

You may need to do the following before starting the installation process:

- ☐ Gather required inputs, such as the Database Server name, Web Server name (if not the same as the Database Server), Database User Credentials, and the Centralized Location that will house the Cadence OrCAD Capture Symbols, Allegro PCB Footprints, Technical Datasheets and other essential files)
- ☐ Determine the hardware configuration of the database and web server and ensure the minimum requirements listed in the [Enterprise Edition System Requirements](#) section have been installed.

Note: Microsoft IIS must be installed on the Web Server prior to installing other Microsoft components. If not, you may need to repair the components or re-install all components in the proper order.

Determine if you have .NET Framework 2.0, AJAX Extensions 1.0, and WSE 3.0 Installed on the Web Server

Go to the **Start Menu > Control Panel > Add or Remove Programs**. Scroll through the list until you are able to find the programs below:

- ☐ Microsoft .NET Framework 2.0 (preinstalled by default, but not shown on the list, for Windows 7, Vista, Server 2008, and Server 2008 R2.)
- ☐ Microsoft ASP.NET 2.0 AJAX Extensions 1.0
- ☐ Microsoft WSE 3.0

NOTE: Windows 7, Vista, Server 2008, and Server 2008 R2 users should open **Programs and Features** in place of **Add or Remove Programs**.

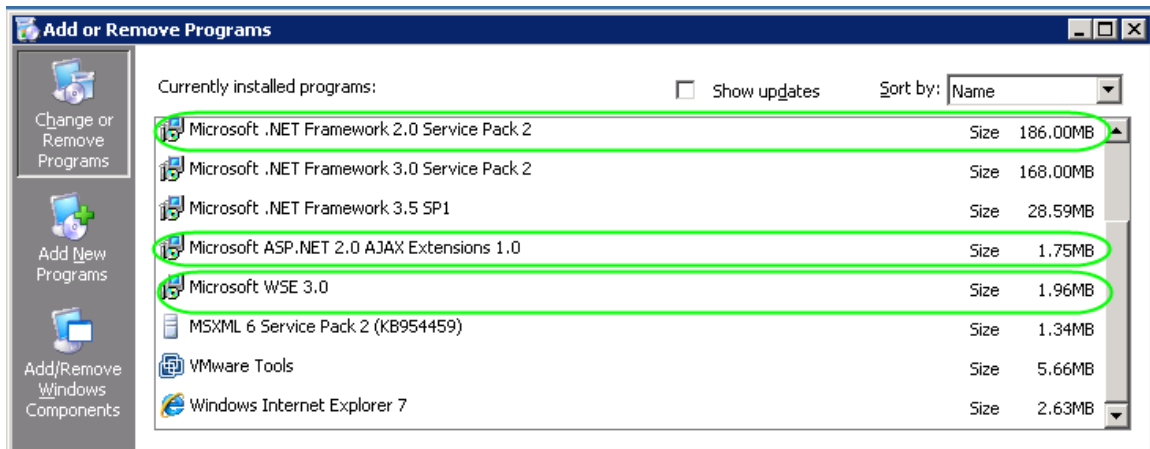


Figure 2: Install Program Check for Windows XP SP3

Name	Publisher	Installed On	Size	Version
Microsoft ASP.NET 2.0 AJAX Extensions 1.0	Microsoft Corporation	11/1/2010	1.74 MB	1.0.61025
Microsoft WSE 3.0	Microsoft Corporation	11/1/2010	3.18 MB	3.0.5305.0

Figure 3: Install Program Check for Windows 7

If these programs are not present on the web server, you will need to make sure they are properly installed in order for CIP-E to work. See the [Appendix](#) for download details.

Once you have downloaded and installed all required Microsoft components, it is necessary to enable and register your .NET v2.0 installation.

Register .NET Framework v2.0 on the Web Server

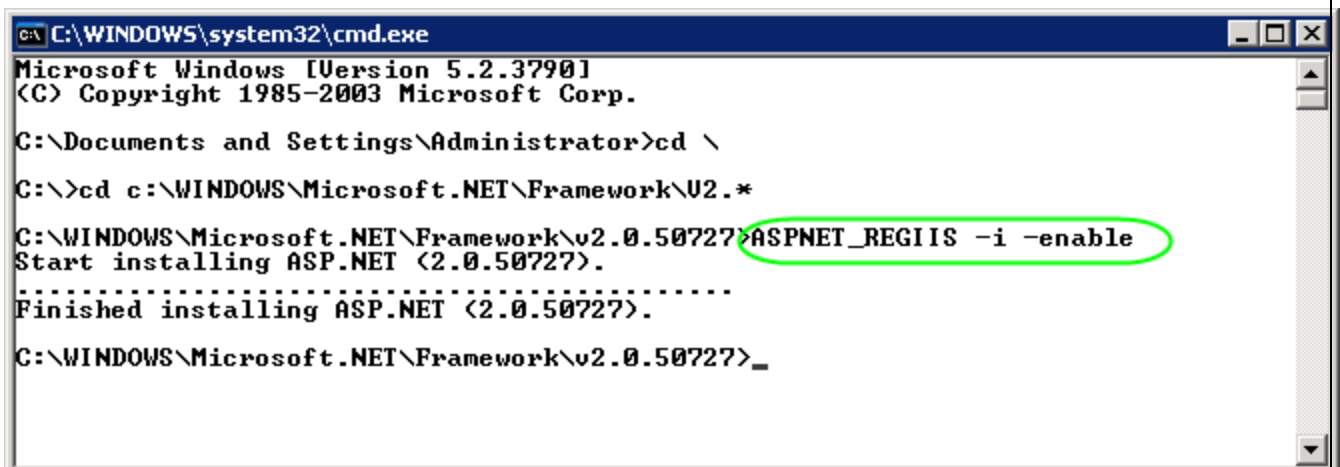
To register .NET v2.0 on 32-bit machines, perform the following steps:

Open a Command prompt and change directory to the Microsoft .NET v2.* directory.
(For example, C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727).

To register .NET v2.0 on 64-bit machines, perform the following steps:

Open a Command prompt and change directory to the Microsoft .NET v2.* directory.
(For example, C:\WINDOWS\Microsoft.NET\Framework64\v2.0.50727).

NOTE: Windows 7, Vista, Server 2008 R2, and Server 2008 users will need to run the Command Prompt as an Administrator.



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.

C:\Documents and Settings\Administrator>cd \
C:\>cd c:\WINDOWS\Microsoft.NET\Framework\v2.*
C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727>ASPNET_REGIIS -i -enable
Start installing ASP.NET (2.0.50727).
.....
Finished installing ASP.NET (2.0.50727).
C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727>
```

Figure 4: Register .NET Framework v2.0

Once you are at that location, enter the following command:

ASPNET_REGIIS -i -enable

Hit the **Enter** key. If the framework was registered successfully, you will be notified in the command prompt that Windows “Finished installing ASP.NET...”

You are now ready to install CIP-E.

Installing CIP-E

Installing the CIP-E Web Engine, Database, and Supporting Documents

- ☐ Close all open applications.

If a previous version of CIP-E is already installed on this machine, please refer to the [Upgrading CIP-E](#) section.

Please follow the steps below to install and use CIP-E. Running the **CIP-E.exe** program will guide you through placing CIP-E on the web server machine, creating the SQL database and installing the supporting documents. The installation of the CIP-E Web Engine must be completed on the Web Server machine.

Double-click on **CIP-E.exe**. The following window will appear:

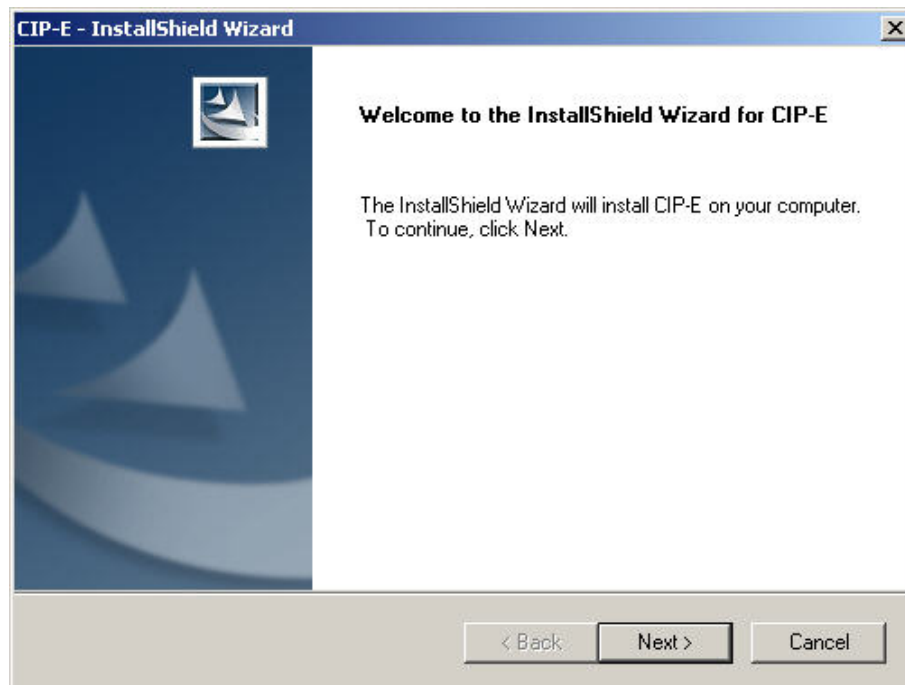


Figure 5: CIP-E Welcome to the Installer Dialog

Click **Next**. The License Agreement Dialog will appear:

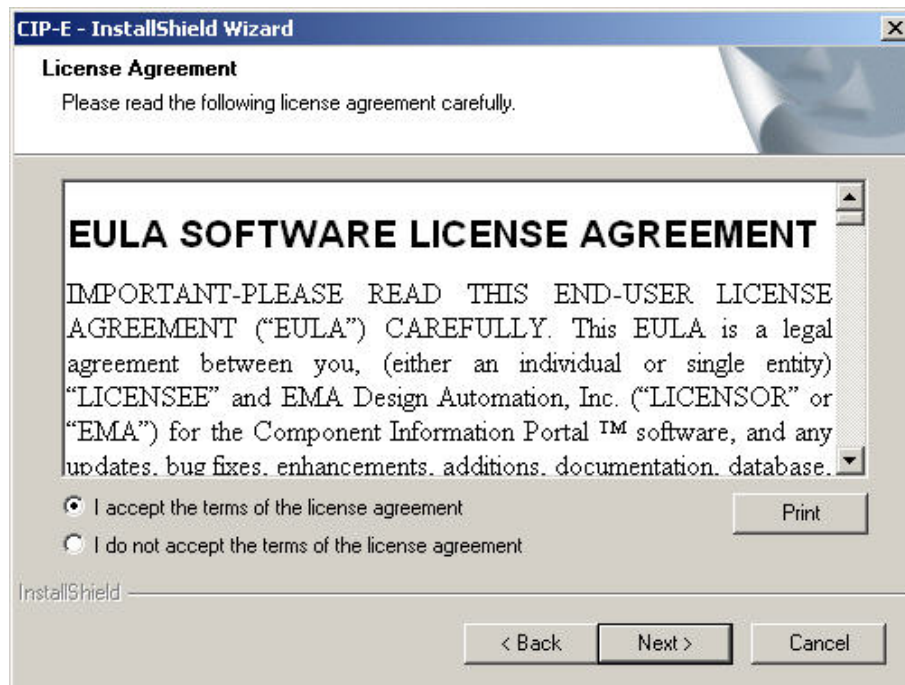


Figure 6: License Agreement Dialog

You will need to read and agree to the End User License Agreement (EULA) before proceeding. After reading the EULA, click on the **"I accept..."** button and click **Next** to continue.

The **Choose License File** Dialog will appear:

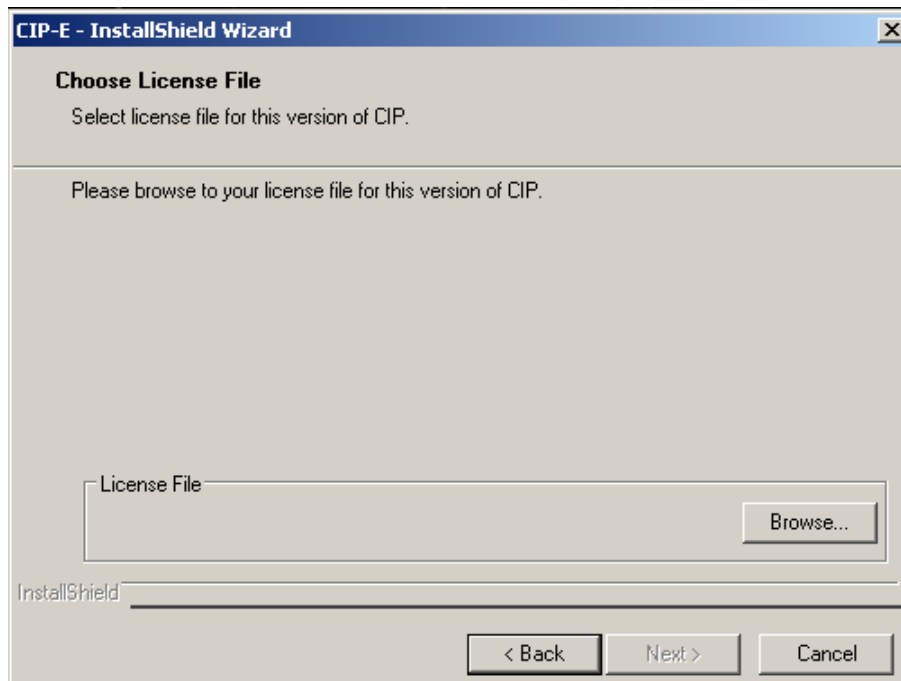


Figure 7: Choose License File Dialog

Click on the **Browse** button and load the license file that was supplied for this installation. Click **Next** to continue.

Note: If an invalid license file is selected, you will not be able to continue the installation. Click on the **Browse** button to reload a correct license file, supplied by EMA, and click **Next** to continue.

The **Select Features** Dialog will appear:

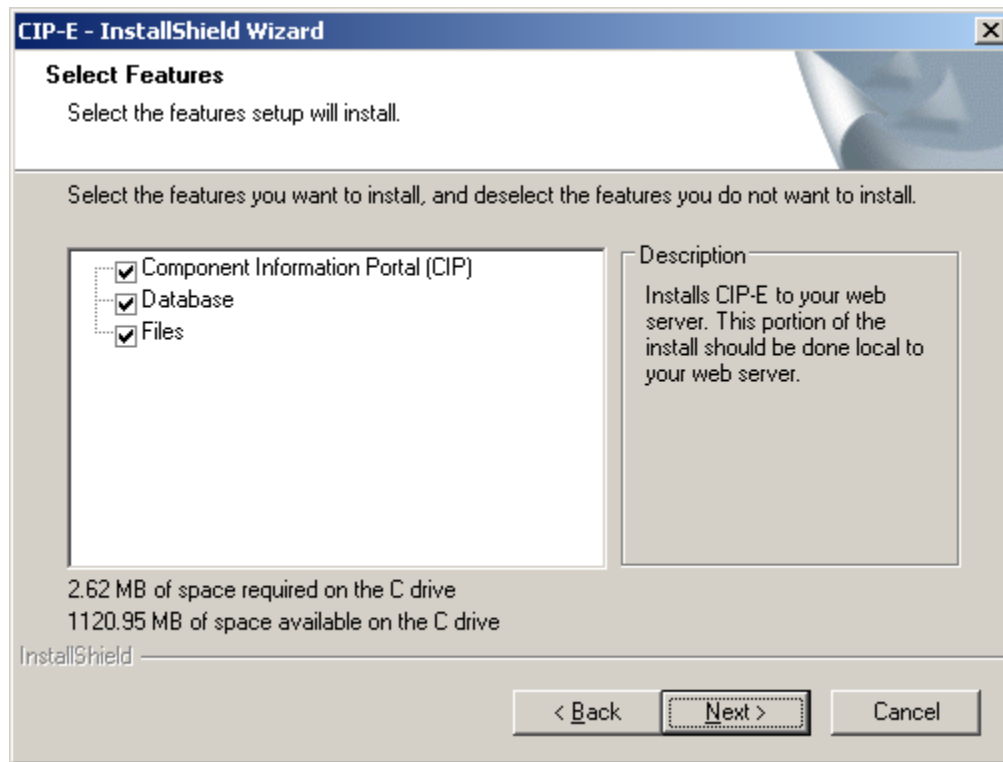


Figure 8: Select Features Dialog

By default, **Component Information Portal (CIP)**, **Database** and **Files** are checked. Click **Next** to continue.

Note: If you plan on using a single Database and Web Server to host the CIP-E Database and CIP Web Engine, leave the default options checked, as shown in the Select Features Dialog. Click **Next** and follow the subsequent steps. When prompted for the Database Server in the Select Database Server Dialog, click on the **Browse** button or type in the instance name or IP address of the local machine.

If you plan on using separate Database and Web Servers to host the CIP-E Database and CIP Web Engine, you can remotely install the Database to a desired SQL Server Instance. Leave the default options checked, as shown in the Select Features Dialog. Click **Next** and follow the subsequent steps. When prompted for the Database Server in the Select Database Server Dialog, click on the **Browse** button or type in the instance name or IP address of the remote database server that will host the CIP-E component database.

If a remote install of the CIP-E Database is not desired, uncheck the Database option, click **Next**, and follow the subsequent steps to install the CIP Web Engine on the Web Server. Afterwards, you may install the CIP-E Database (locally) from the Database Server by running the CIP-E installer and selecting only the **Database** option.

The **CIP Installation Location** Dialog will appear:

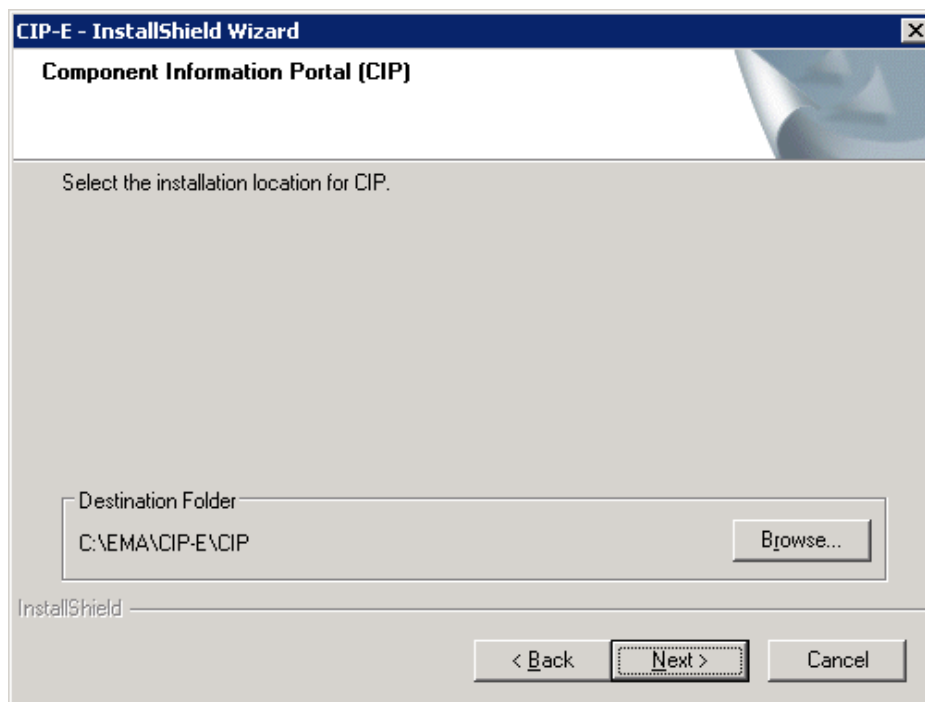


Figure 9: CIP Installation Location Dialog

Select the Destination Folder for the CIP Web Engine files. Click **Next** to continue.

Note: Please record the location of the destination folder containing the web engine files. After this installation, you will need to setup the appropriate permissions on the BOMs folder so that users can access and utilize the Advanced Export feature in CIP-E. Please see the [Setting Folder Permissions on the CIP-E BOMs folder](#) section.

The **Database Server** Dialog will appear:

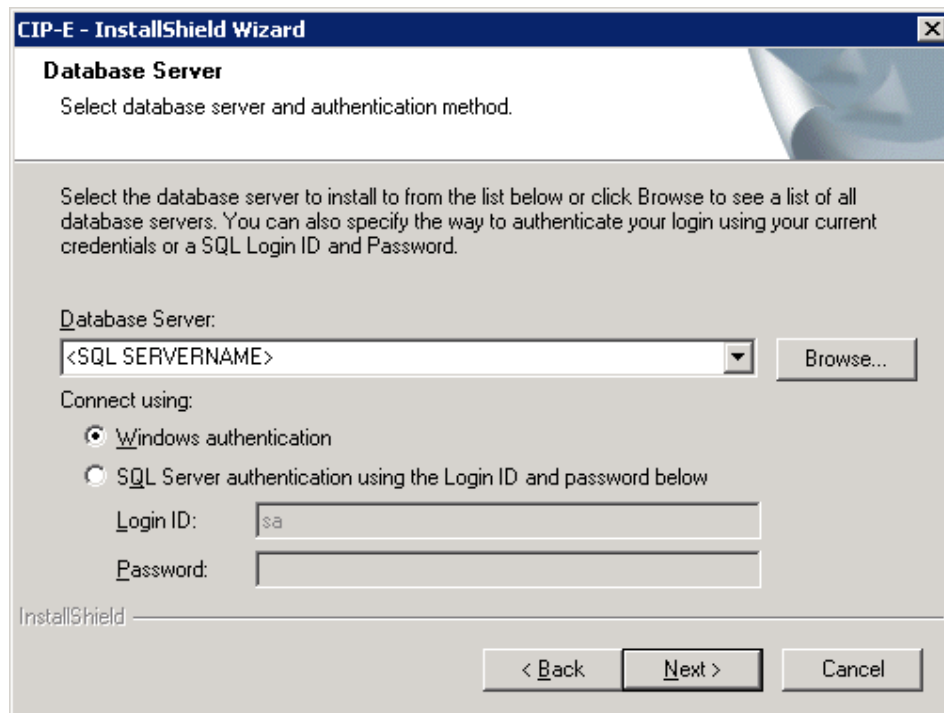


Figure 10: Select Database Server Dialog

Select the **Database Server** from the drop-down list. Click on the **Browse** button or type in the instance name or IP address of the database server that will host the CIP-E component database. Next, select the method of authentication. If **SQL Server authentication** is selected, enter the **Login ID** and **Password** of the SQL login.

Note: For either method of authentication, you will need to ensure the authenticated user has the appropriate rights (e.g. SQL sysadmin Role) to the database server instance, to create the CIP-E database and its associated users. For SQL Express installations, Windows Authentication is generally used for this step, but is your choice based on the configuration.

Click **Next** to continue the installation.

The **Support Documents** Dialog will appear:

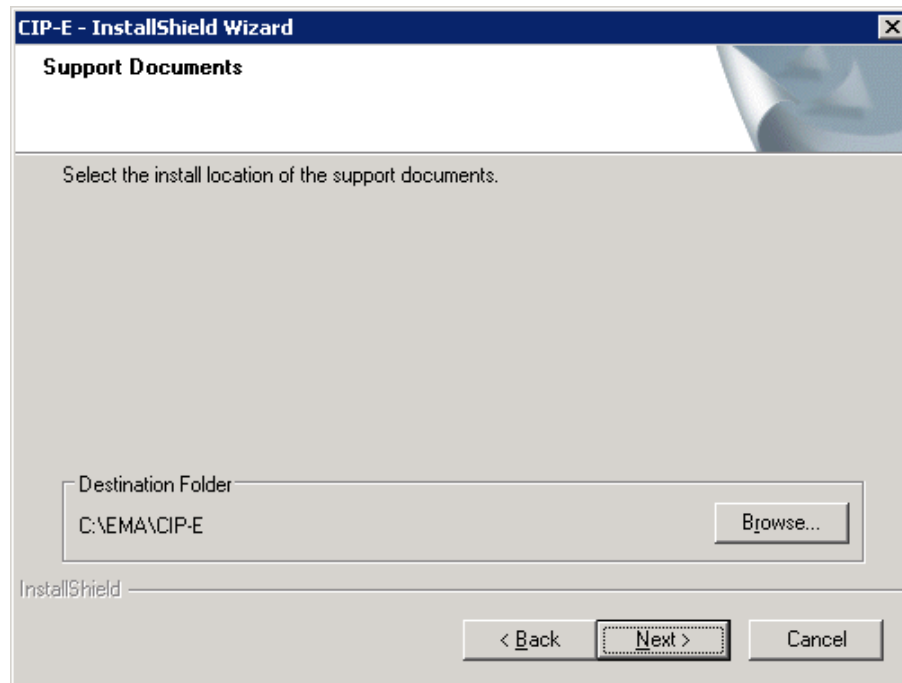


Figure 11: Support Documents Dialog

Specify the folder location that will contain the CIS Configuration files, CIP User Guide and EULA. Click **Next** to continue.

The **Ready to Install the Program** Dialog appears:

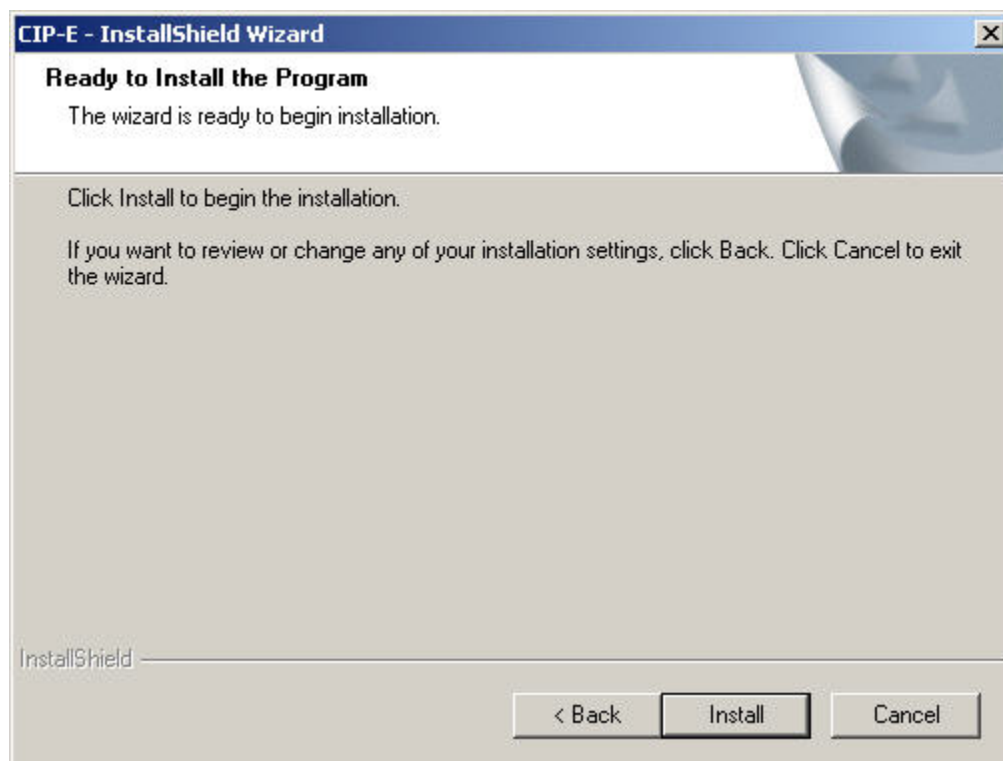


Figure 12: Install the Program Dialog

Click **Install** to complete the installation process. After the CIP-E database has been created, you will receive the following prompt:

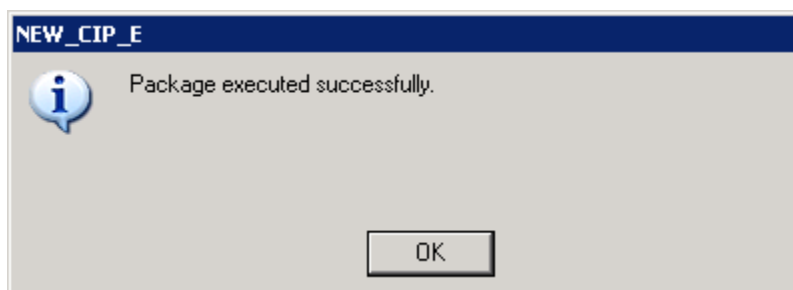


Figure 13: Package Executed Successfully

Click **OK** to continue the installation. Once it has successfully completed, the following window will appear:

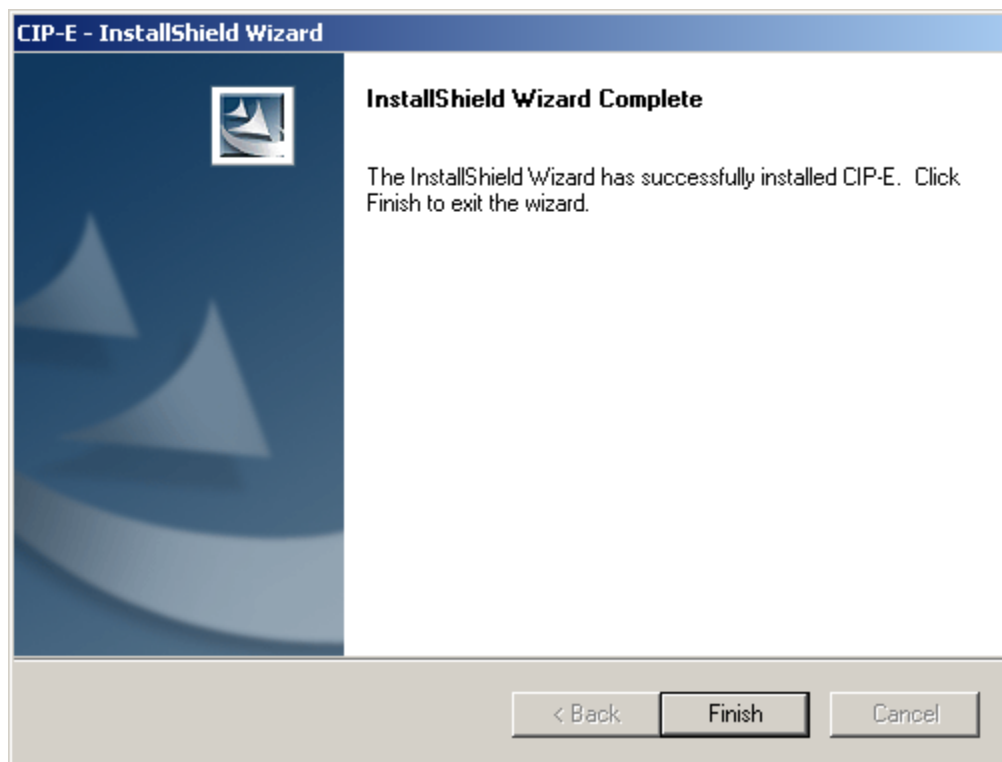


Figure 14: Install Complete

Click **Finish**.

Setting Permissions on the CIP-E BOMs Folder

Perform the steps below to ensure users will be able to successfully use the Advanced Export feature to upload and export BOMs using CIP-E:

Navigate to the CIP-E Web Engine install directory (default directory C:\EMA\CIP-E\CIP) and locate the **BOMs** folder. Right-click on the folder and select **Properties**. The **BOMs Properties** window will appear. Next, click on the **Security** tab.

Verify that the **Authenticated Users** group is present in the list of groups and user names. If that group is not listed. Click on the **Add** button. The **Select Users or Groups** window will appear.

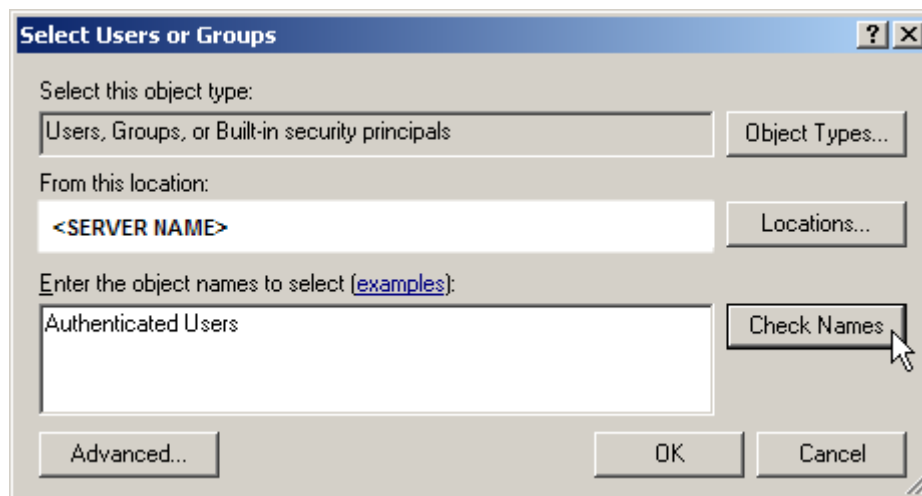


Figure 15: Select Users, Computers, or Groups

Click on the **Locations** button and select the local server name. Click **OK**.

Under **Enter the object names to select (examples):** type in **Authenticated Users**. Click on the **Check Names** button. Click **OK**.

Ensure that **Authenticated Users** group has the following permissions:

- ☐ Read & Execute
- ☐ List Folder Contents
- ☐ Read
- ☐ Write

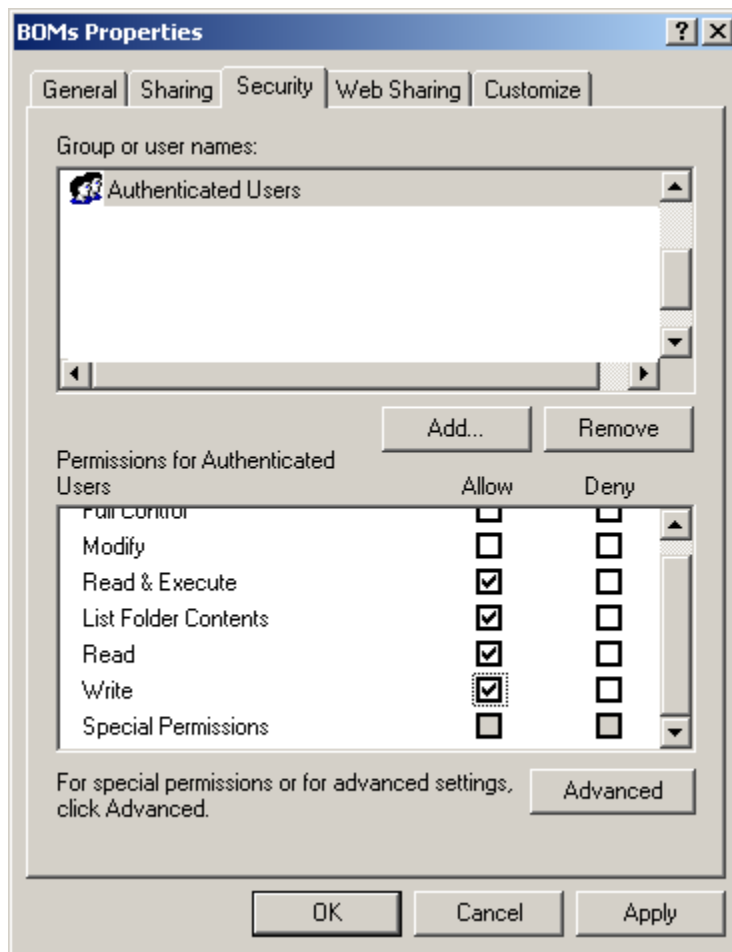


Figure 16: Assigning permissions to the Authenticated Users Group

Click **Apply**. Click **OK**.

Configuring the CIP-E ODBC Data Source

During the CIP-E installation, an ODBC data source was created, which is required for the CIP-E Web Engine. However, for some Operating System environments, you may need to configure the ODBC data source manually.

On the Web Server, Click on **Start Menu > Control Panel > Administrative Tools > Data Sources (ODBC)**. (This is just one of the ways to access Administrative Tools.)

Click on the **System DSN** tab. Next, select **CIP-E** and click on the **Configure** button. The following window will appear.

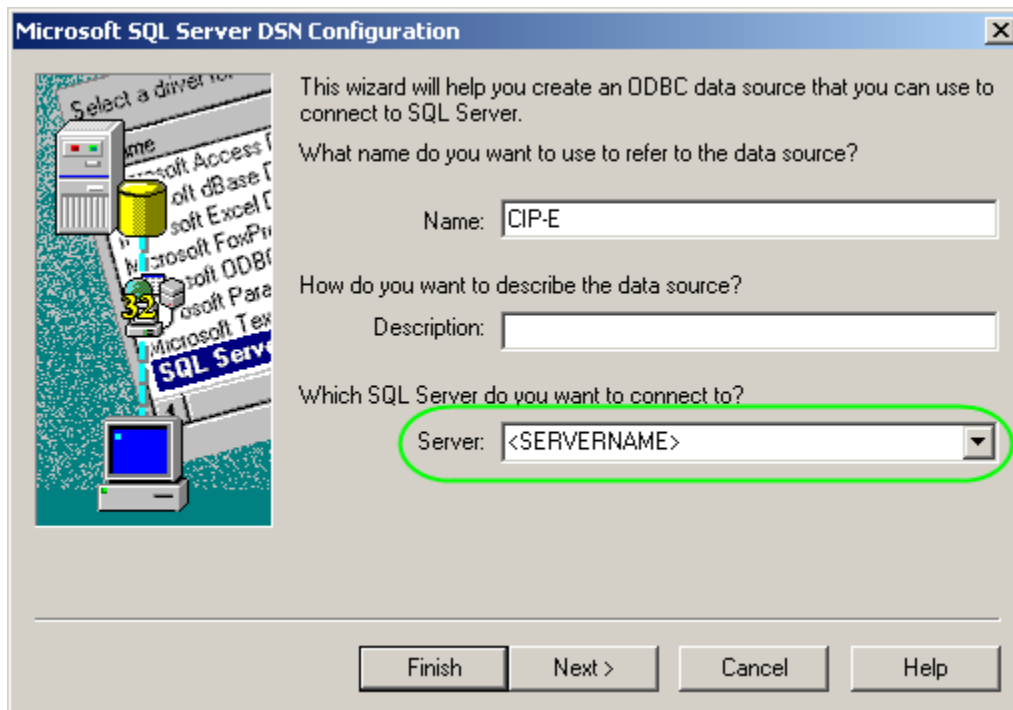


Figure 17: Checking ODBC Settings – Verify SQL Server Name

Check and ensure that the <SERVERNAME> matches the SQL Server instance where the CIP-E database was installed. Click **Next** to continue.

NOTE: SQL Express instances Default to Server: <serverhostname>\sqlexpress, where <serverhostname> is the hostname of your SQL Database Server.

The following window will appear. Make sure that “**With SQL Server authentication...**” is selected.

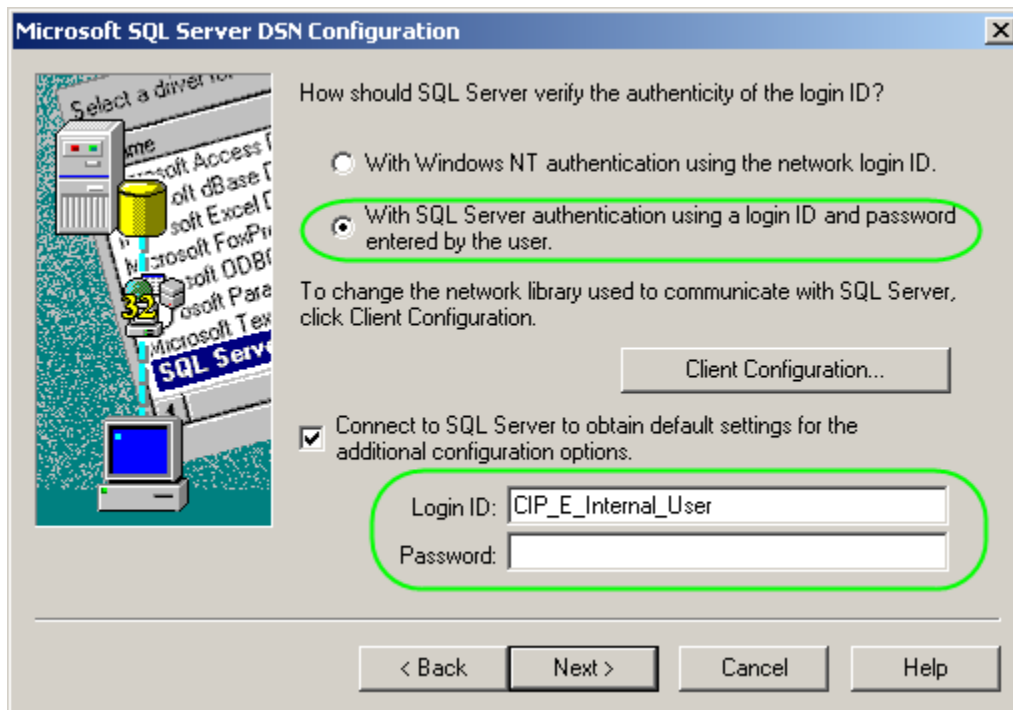


Figure 18: Checking ODBC Settings – Verify Authentication Mode

By default, the **Login ID** will be displayed. You will need to enter the **Password** to proceed to the next step.

Login ID: CIP_E_Internal_User
Password: bra#ru5=phaT

Note: We do not recommend changing the password for the CIP_E_Internal_User.

If you are getting either a connection failure or login failure at this point, make sure that you have typed the password correctly, and that the SQL server has been configured for mixed mode authentication. See [Appendix](#) for details on checking for mixed mode authentication.

Once you have entered the password, Click **Next** to continue.

The following window will appear. Check the “Change the default database...” check box and make sure the **CIP_E** database is selected.

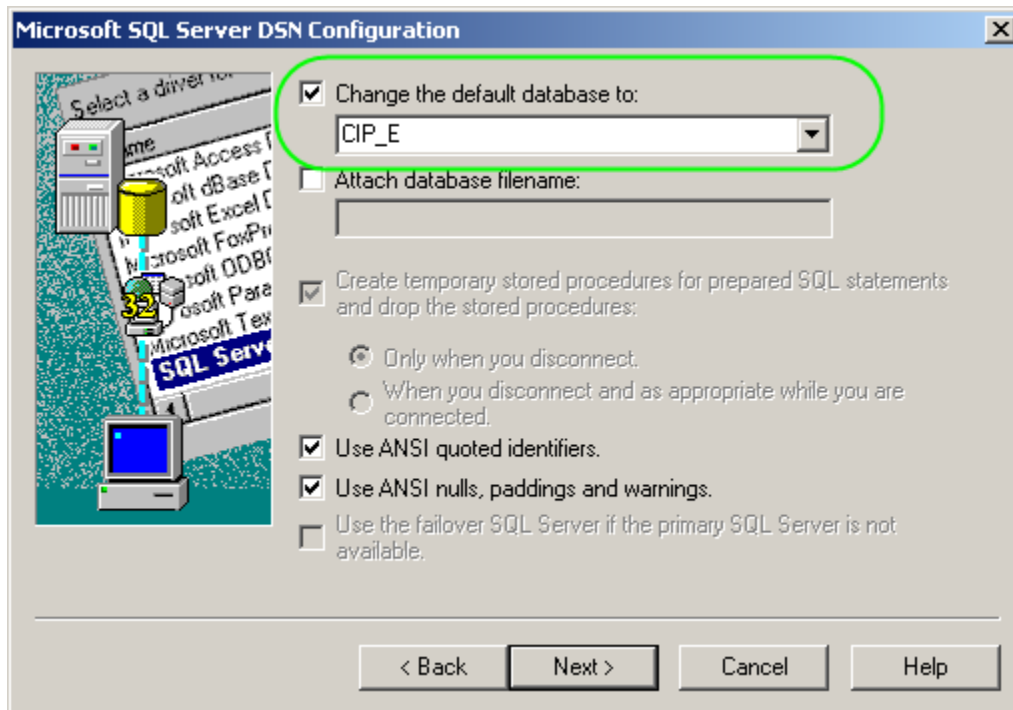


Figure 19: Checking ODBC Settings – Verify Default Database

Click **Next** and then click **Finish**. A new window will appear that gives details about the configuration of the ODBC data source. Click **OK**. You have successfully completed configuring the ODBC data source.

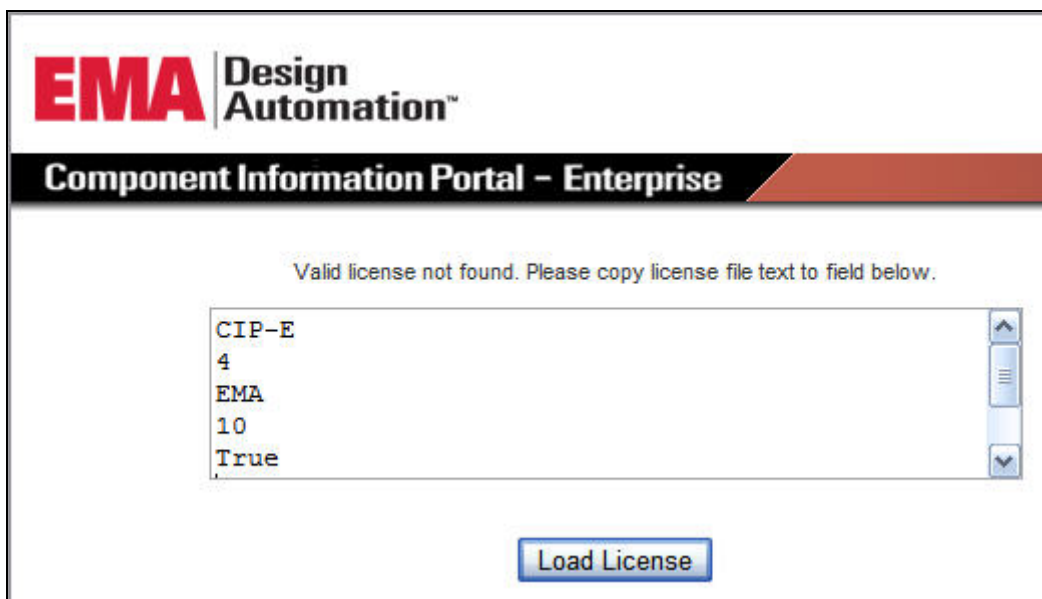
Click **OK** to close the ODBC Data Source Administrator Window.

Installing the License File

To start CIP-E, launch Internet Explorer and type in the address below, where <servername> is the hostname of the Web Server.

`http://<servername>/CIP-E`

You will be prompted to load a valid license. You will need to open the license file that was sent to you and copy the entire text of the file and paste into the box. Do not modify the text.

The screenshot shows the 'Component Information Portal - Enterprise' web interface. At the top is the EMA Design Automation logo. Below the header, a message states: 'Valid license not found. Please copy license file text to field below.' There is a large text input field containing the following text:

```
CIP-E
4
EMA
10
True
```

Below the input field is a blue button labeled 'Load License'.

Figure 20: Load License

Click on the **Load License** button. The Log In page will appear. You are now ready to log into CIP. You will need to log in as the Admin. The **Username** and **Password** for the Administrator are **Admin** and **Admin** respectively. After logging in, you can change the password for Admin, as well as create a new user with the Administrator role. Consult the CIP User Guide for instructions on how to use CIP-E. You can access the CIP User Guide, after logging in, by clicking on **Help**. The User Guide is also located in the CIP-E Web Engine install directory (default directory C:\EMA\CIP-E\CIP).

Installing the Starter Library

Please follow the steps below if you wish to add Starter Library Parts to the CIP_E Database. These steps can also be followed to upgrade parts in your existing CIP-E library. The upgrade will only add the Starter Library Parts to the CIP_E Database. No existing parts will be modified.

Double-click on the “**CIP-E Starter Library.exe**” file. The following window will appear:

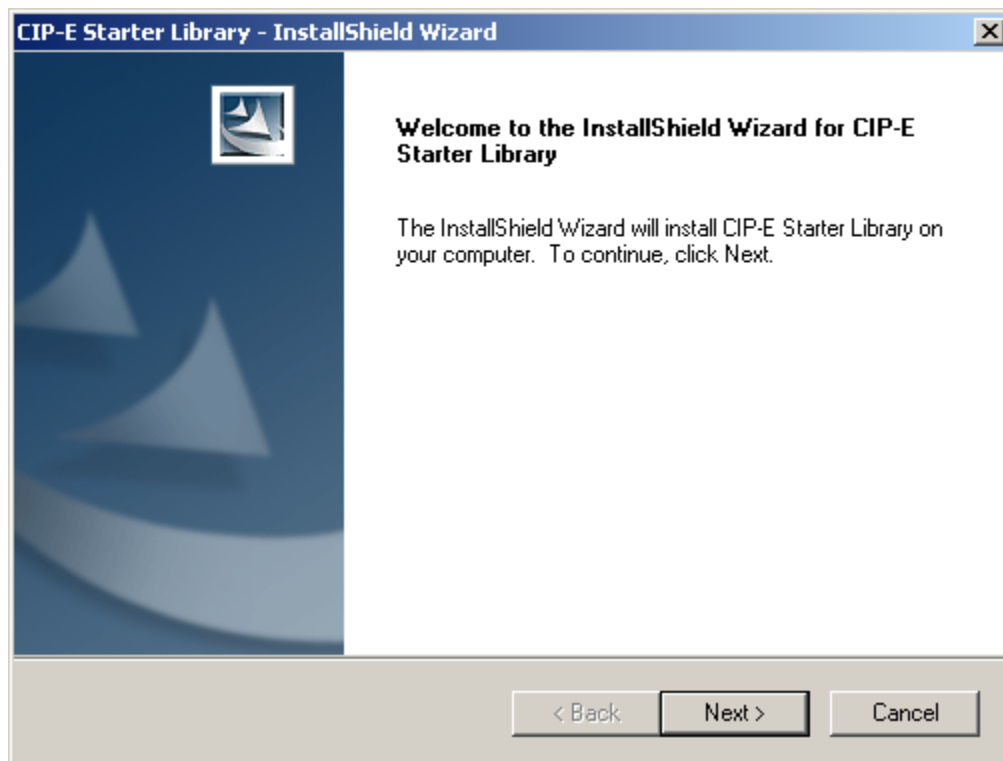


Figure 21: CIP-E Starter Library Installation Window

Click **Next**. The License Agreement Dialog will appear. You will need to read and agree to the licensing agreement before proceeding. After reading the EULA, click on the “**I accept...**” button and click **Next** to continue.

The Choose License File Dialog will appear. Click on the **Browse** button and load the license file that was supplied for this installation. Click **Next** to continue.

Note: If an invalid license file is selected, you will not be able to continue the installation. Click on the **Browse** button to reload a correct license file supplied by EMA and click **Next** to continue.

The Setup Type window will appear:

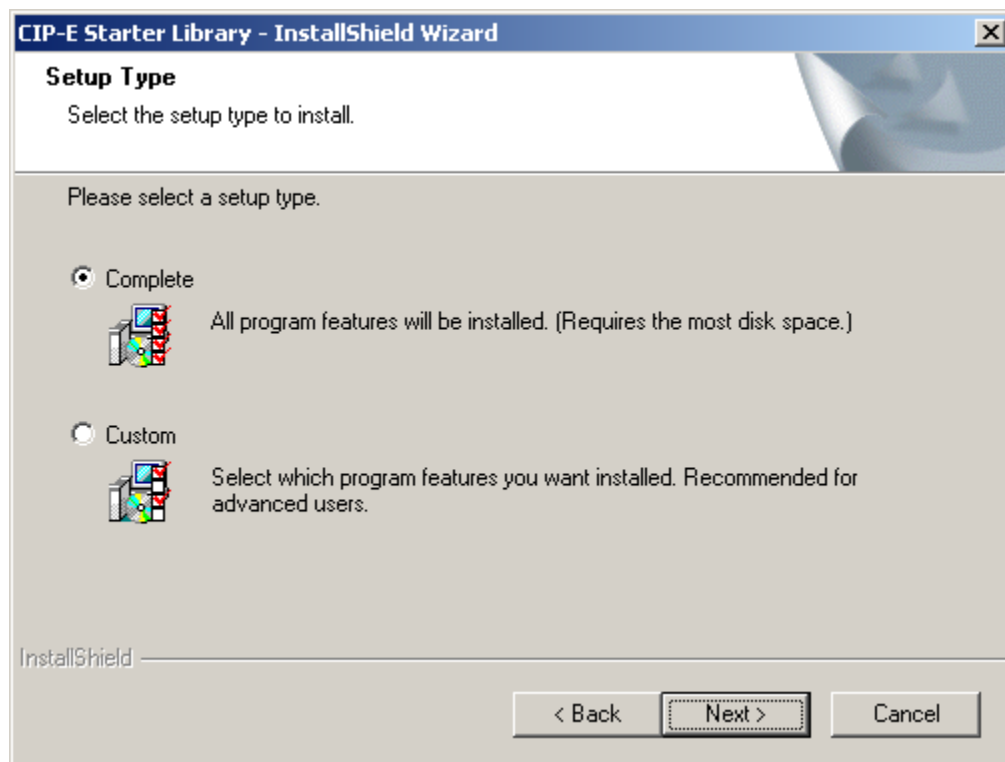


Figure 22: Setup Type Window

If the **Complete** option is selected, all features will be installed to C:\EMA\CIP-E. To install to a different location, select the **Custom** option. After making a selection, click **Next** to continue.

If you selected the **Custom** option, the Choose Destination Location window will appear. Click on the **Change** button to browse to or enter the desired folder location that will contain the Symbols, PCB Footprint, and Technical Datasheets. Click **Next** to continue. The Select Features Window will appear. The **CIS Starter Database** option will be checked by default. Click **Next** to continue.

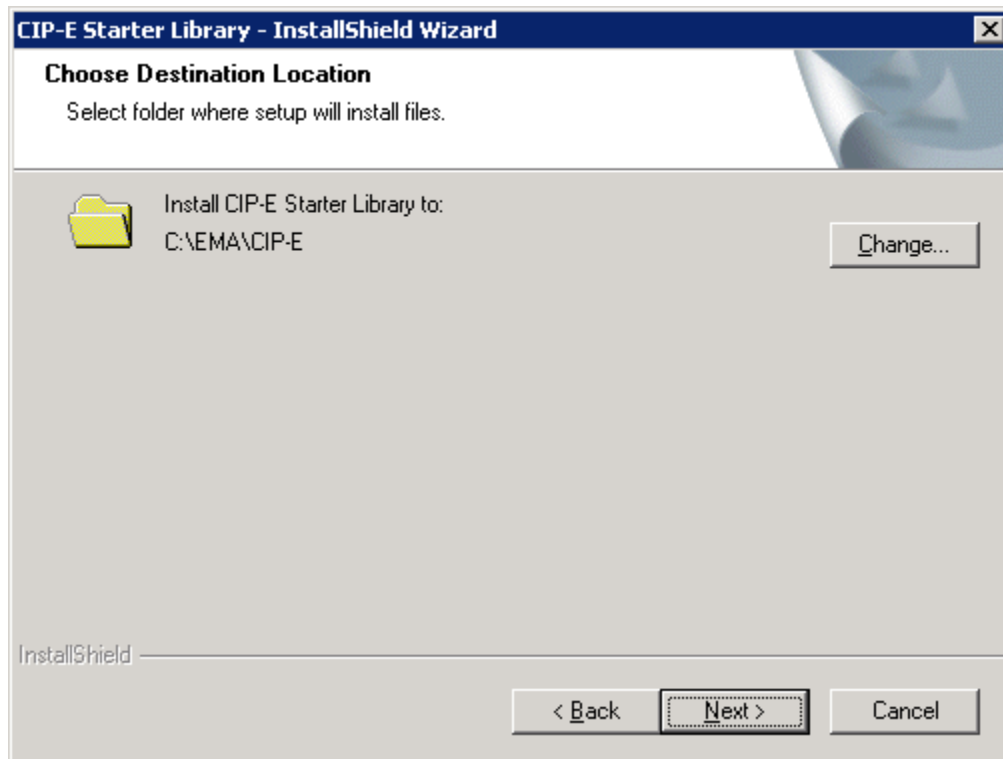


Figure 23: Choose Destination Location Window

The Database Server window will appear. Enter or select the name of the **database server** that contains the **CIP_E** database created during the installation of the CIP-E.

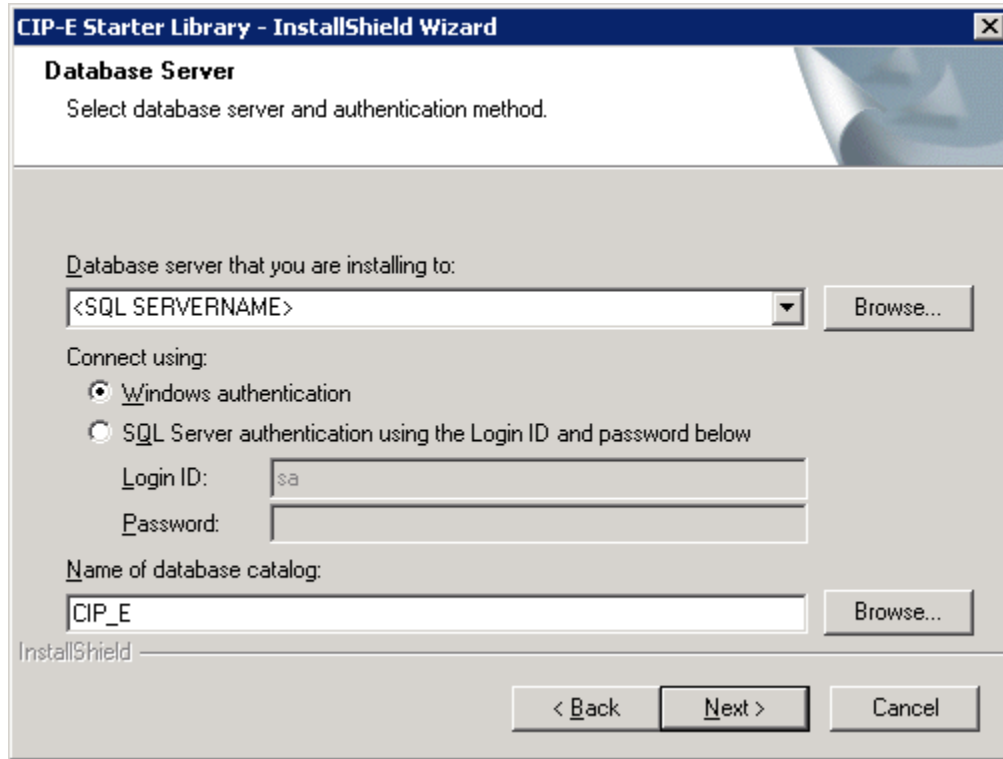
The screenshot shows a Windows-style dialog box titled "CIP-E Starter Library - InstallShield Wizard". The main heading is "Database Server" with the instruction "Select database server and authentication method." Below this, there is a section "Database server that you are installing to:" with a text box containing "<SQL SERVERNAME>" and a "Browse..." button to its right. Underneath is the "Connect using:" section with two radio buttons: "Windows authentication" (which is selected) and "SQL Server authentication using the Login ID and password below". The second option has associated text boxes for "Login ID:" (containing "sa") and "Password:". Below that is the "Name of database catalog:" section with a text box containing "CIP_E" and another "Browse..." button to its right. At the bottom left, the "InstallShield" logo is visible. At the bottom right, there are three buttons: "< Back", "Next >", and "Cancel".

Figure 24: Select Database Server and Database Catalog

Select the method of authentication. Once the correct credentials are entered you can click on **Browse** button and select the database catalog **CIP_E**. You can also type in **CIP_E** in the field.

Click **Next** to continue. The Ready to Install the Program Dialog will appear. Click on the **Install** button to begin the installation. Several messages and prompts will be displayed indicating that the installation is in progress. During the installation of the CIP-E Starter Library, you will receive two prompts indicating that the Package has executed successfully. Click **OK**. When the installation is complete, the InstallShield Wizard Complete Dialog will appear. Click **Finish** to exit the wizard and complete the installation of the starter library.

Updating Datasheet Links

The Repather program will automatically launch once the CIS Starter Library has been successfully installed. The program can also be manually invoked by going to the install directory of the CIS Starter Library, (default directory C:\EMA\CIP-E) and navigating into the Repather folder.

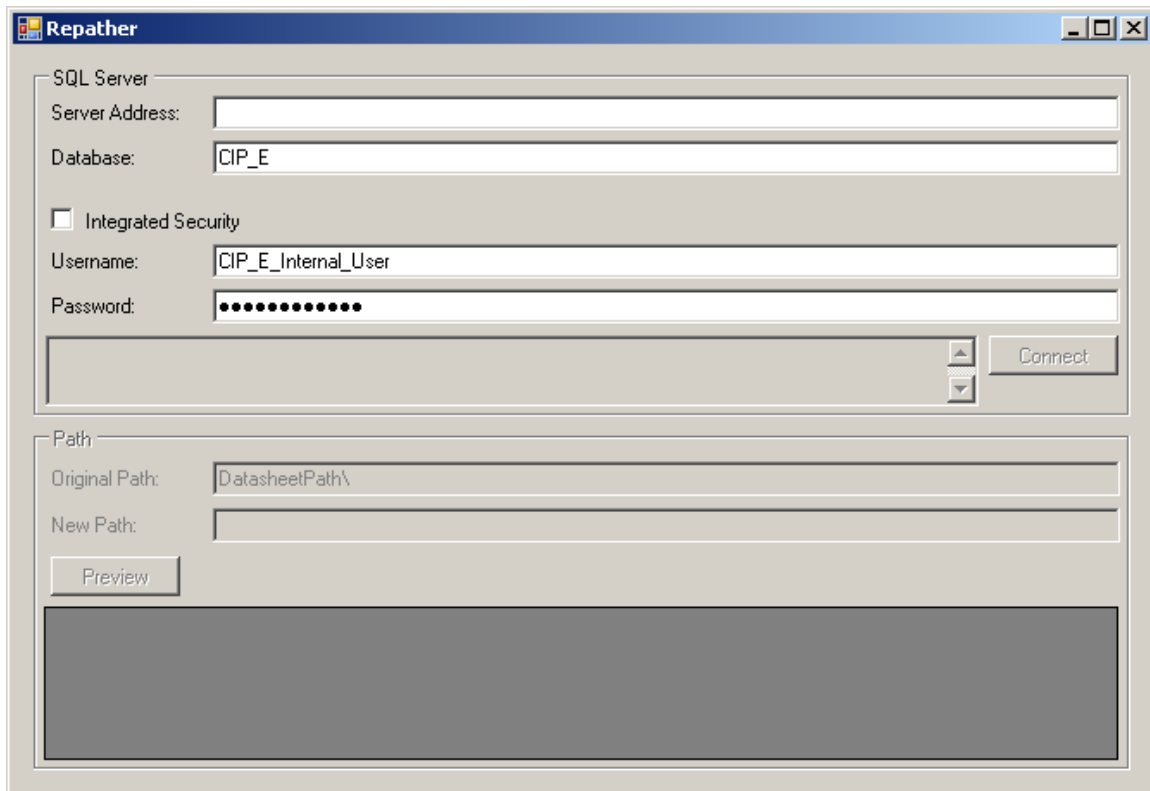


Figure 25: Repather Interface

The path of the technical datasheet links will need to be updated in order to access the datasheets directly from CIP-E. Initially, all of the datasheet links are prefixed with "DatasheetPath\". This must be changed to the path that is accessible to the CIS and CIP-E Users.

Kemet

C0603C103K5RAC

Add Manufacturer Part

Edit

Delete

Manufacturer Part Data	
Manufacturer	Kemet
Digikey PN	
Datasheet	DatasheetPath\Kemet\F3102_C0Gf11.pdf
Always RoHS Compliant	Yes

Figure 26: Datasheet Link

In the “**Server Address**” field, enter the name of the database server hosting the CIP-E SQL database and click **Connect**.

SQL Server

Server Address: <SQL SERVERNAME>

Database: CIP_E

☐ Integrated Security

Username: CIP_E_Internal_User

Password:

Connection Successful

Connect

Figure 27: Repather - SQL Server Settings

Once the connection is successful, you will be able to enter the path to the technical datasheets. Populate the **New Path** field with the location of the Technical_Datasheets folder that was installed with the Starter Library. Next, click on the **Preview** button. This will allow you to preview the new datasheet links.

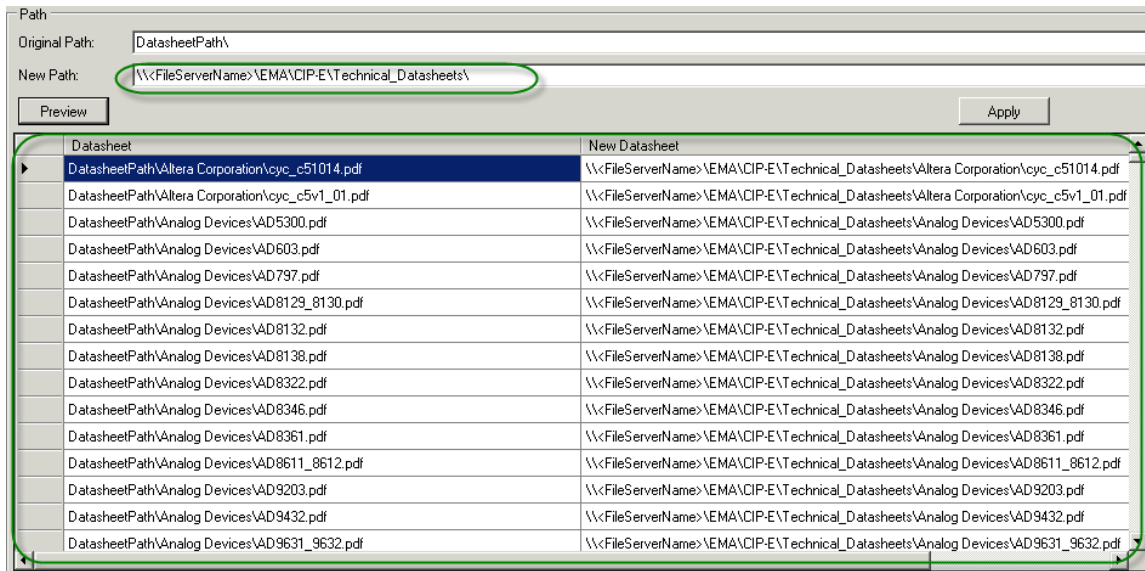


Figure 28: Repather – Updating Datasheet Links

Once you are satisfied with the new datasheet links shown in preview window. Click on the **Apply** button. Close the Repather.exe program. Log into CIP-E and click on one of the datasheet links in the CIP-E engine. Users will now be able to launch the datasheets from both CIP-E and CIS.

Upgrading CIP-E

Upgrading the CIP-E Web Engine, Database and Supporting Documents

Please follow the steps below to upgrade CIP-E. These steps are only valid if CIP-E Version 4.001.XXXX (4.1) was installed on the server machine. Running the **CIP-E.exe** program will guide you through upgrading CIP-E on the server machine, updating the SQL database and installing supporting documentation.

Note: If you have made any modifications to the CIP-E Web Engine or Database, you should not run this upgrade procedure. If you continue with this upgrade it will result in irreparable damages. Please contact Technical Support for further assistance, if you have made any changes.

If you performed two separate installations for the previous version, one on the Web Server and the other on the Database Server, you will need to run the CIP-E installer on both machines to upgrade the CIP-E Web Engine files and Database.

Double-click on **CIP-E.exe**. The following window will appear:

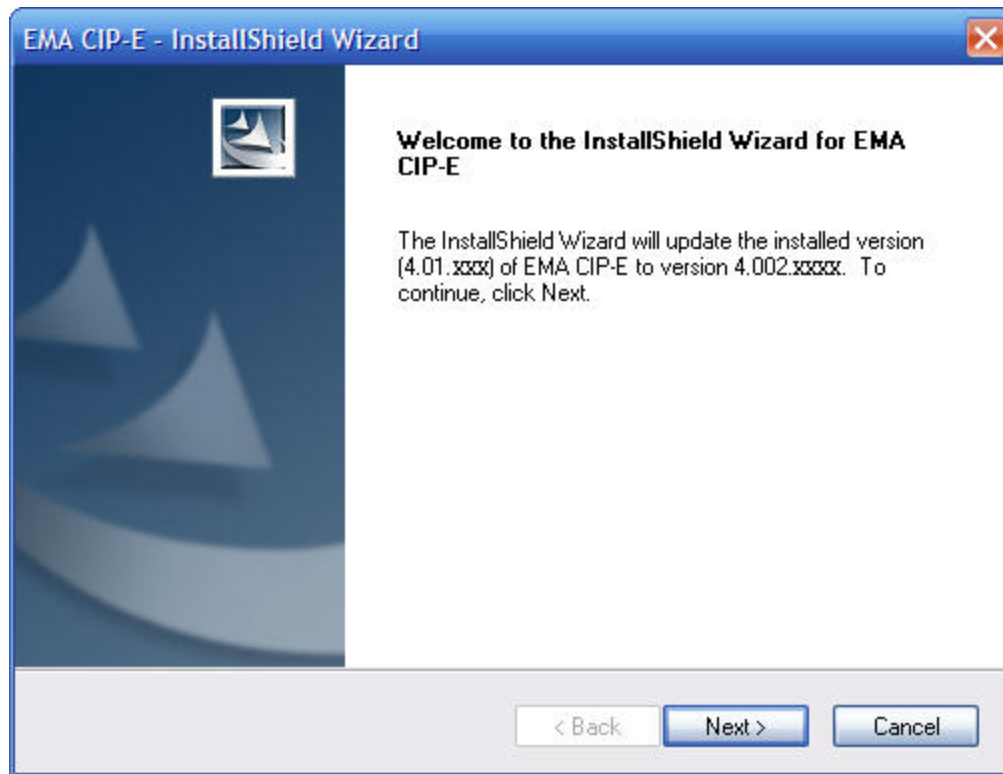


Figure 29: Updating CIP-E – Welcome to the Installer Dialog

Select **Next** and the **License Agreement** Dialog will appear. You will need to read and agree to the licensing agreement before proceeding. After reading the EULA, click on the “**I accept...**” button and click **Next** to continue.

The Choose License File Dialog will appear. Click on the **Browse** button and load the license file that was supplied for this installation. Click **Next** to continue.

Note: If an invalid license file is selected, you will not be able to continue the installation. Click on the **Browse** button to reload a correct license file supplied by EMA and click **Next** to continue.

The following window will appear:

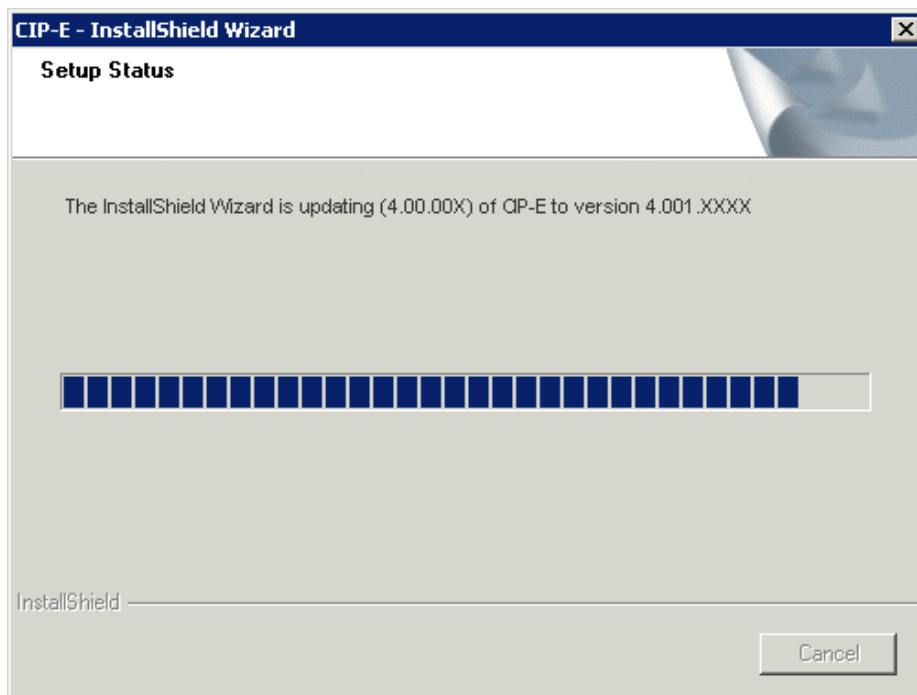


Figure 30: Setup Status Dialog

The update status bar will fill as the update process continues. Next, the following window will appear.

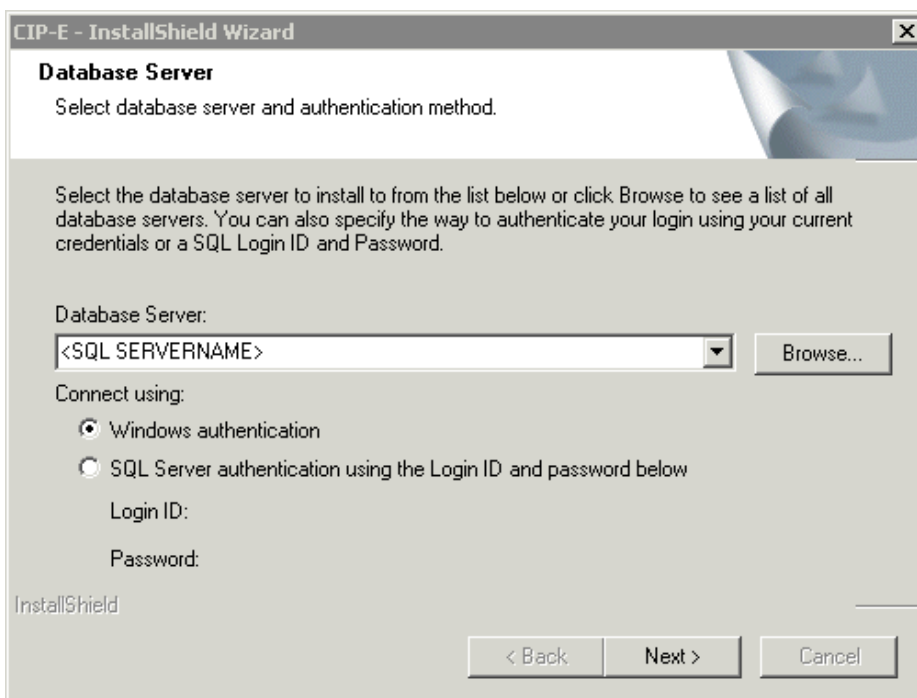


Figure 31: Upgrade - Select Database Server Dialog

Under the Database Server section, select the **Database Server** from the drop-down list or enter the instance name or IP address of the database server currently hosting the CIP-E component database. Next, select the method of authentication. If **SQL Server authentication** is selected, enter the **Login ID** and **Password** of the SQL login.

Click **Next**. The update process will begin. When the component database has been updated successfully, you will receive the following prompt:

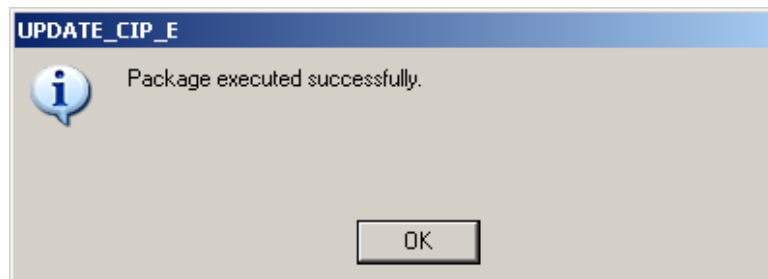


Figure 32: Update - Package Executed Successfully

Click **OK** to continue with the upgrade process. Once the installation has successfully completed, the following window will appear:

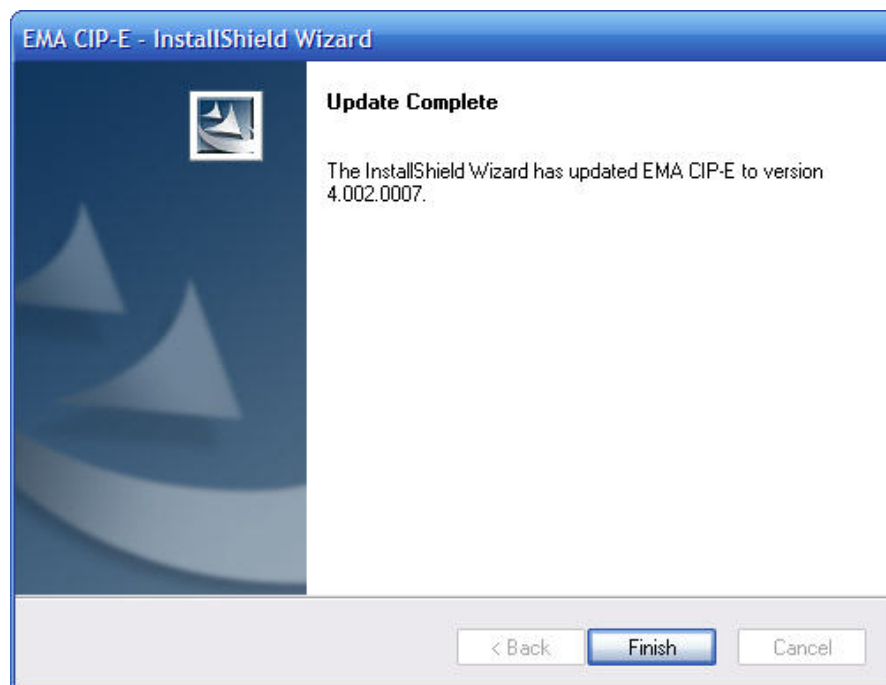


Figure 33: Update Complete

Click **Finish**. You will need to verify that the ODBC data source has been created successfully. Follow the instructions in the [Configuring the CIP-E ODBC Data Source](#) section.

You can add more parts to your existing CIP-E database by installing the EMA Starter Library provide with this package. Follow the instructions in the [Installing the Starter Library](#) section.

Setting up Database Mail

The CIP Email Notification feature allows users to receive emails when parts are added, modified, or deleted from the CIS database. This feature also allows users who create Temp Parts (either through CIS or CIP) to receive emails when their Temp Parts are assigned Formal Part Numbers.

Note: Before users can begin using Email Notifications, the SQL Server Administrator must enable and configure the Database Mail Profile on the database server. This feature is only available in SQL Server versions 2005 and higher. This feature is not available in the MS SQL Express versions. The Mail Profile name created must be called **CIP-E** and the profile should be set to **Public**.

Once the SQL Server Administrator has created and enabled the CIP-E Database Mail Profile, the **Create_Email_SPs_and_Trigger.sql** must be executed. This script will be placed in the Configuration_Files folder of the CIP-E installation directory (default C:\EMA\CIP-E\Configuration_Files)

Client Installation – Connecting CIS to CIP

OrCAD Capture CIS users will need to set up an ODBC data source and the CAPTURE.INI file.

Setting up the Client ODBC Data Source

Users on each of the client machines connecting to CIS will need to perform the steps below:

Click on **Start Menu > Control Panel > Administrative Tools > Data Sources (ODBC)**. (This is just one of the ways to access Administrative Tools.)

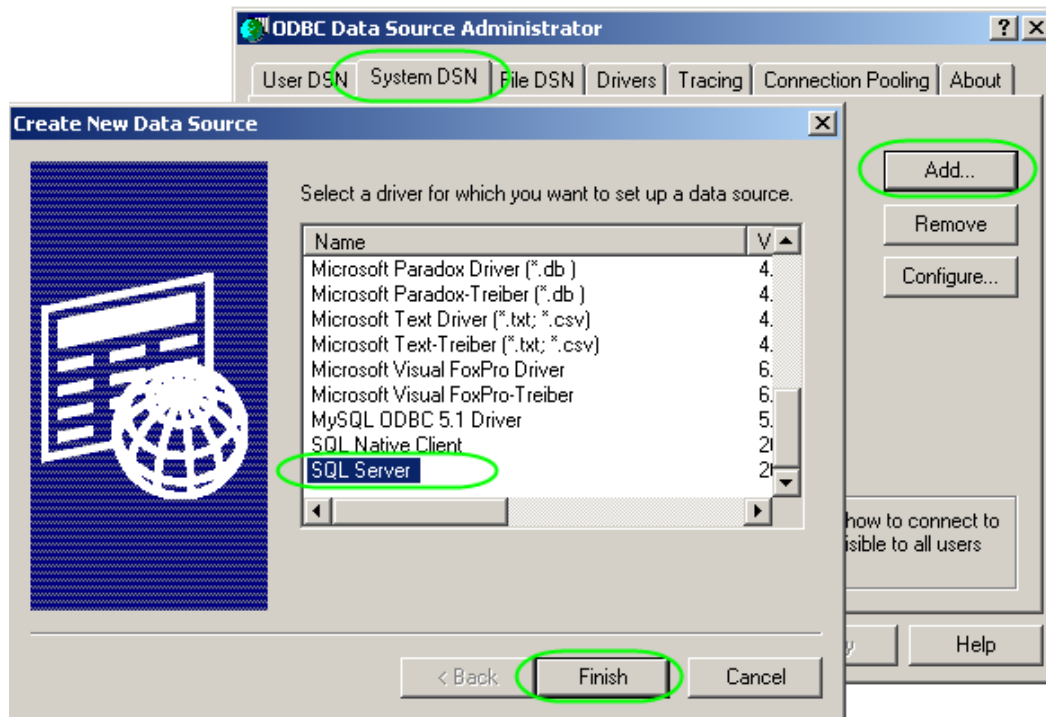


Figure 34: Creating an ODBC Data Source

Click on the **System DSN** tab. Click **Add**. Select **SQL Server** and click **Finish**.

For users with 64-bit Windows, 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**.

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.

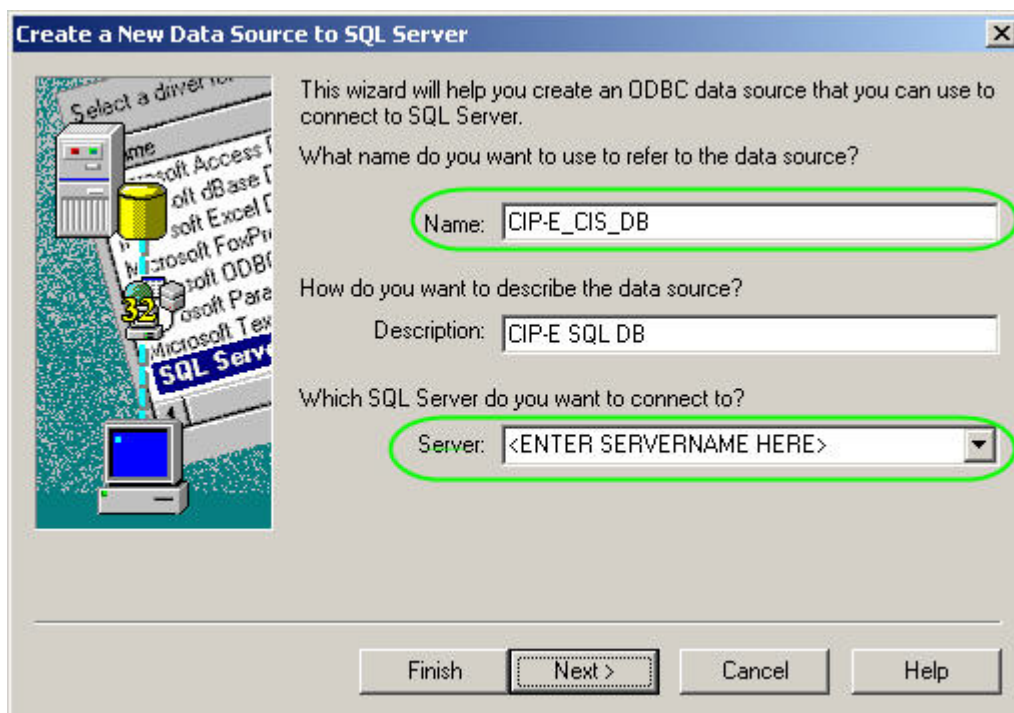


Figure 35: ODBC Name and SQL Server Database Selection

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 Username and Password will be needed to access the CIP-E database from CIS.

Username: CIP_E_CIS_User

Password: Test1234

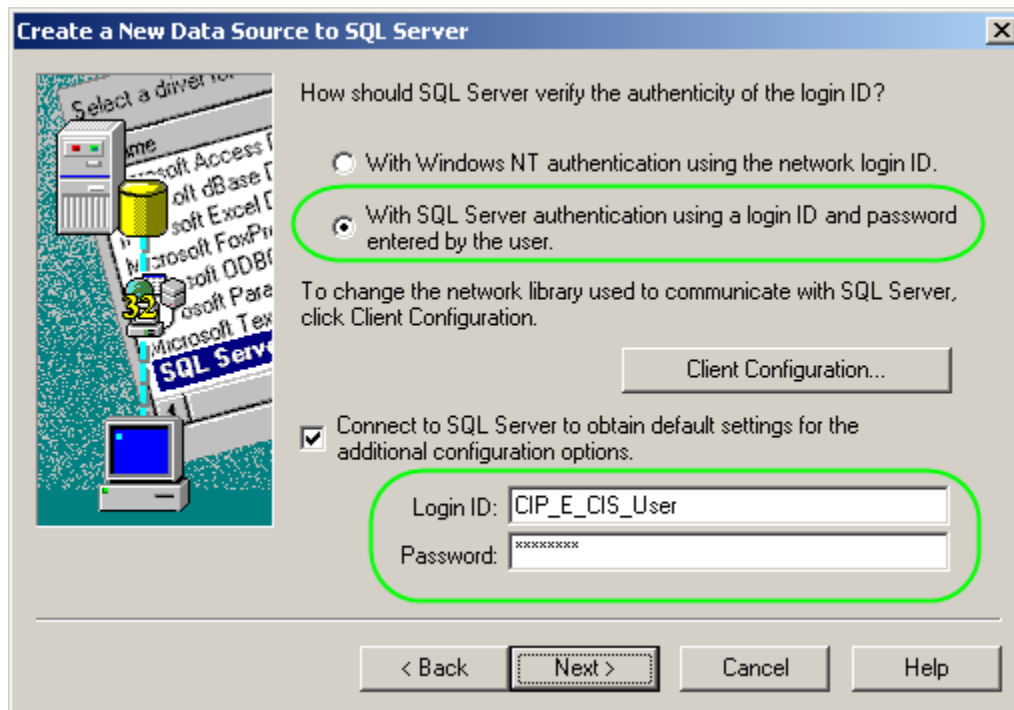


Figure 36: Set Authentication Mode, Login and Password

Click **Next** and make sure that the default database is **CIP_E**.

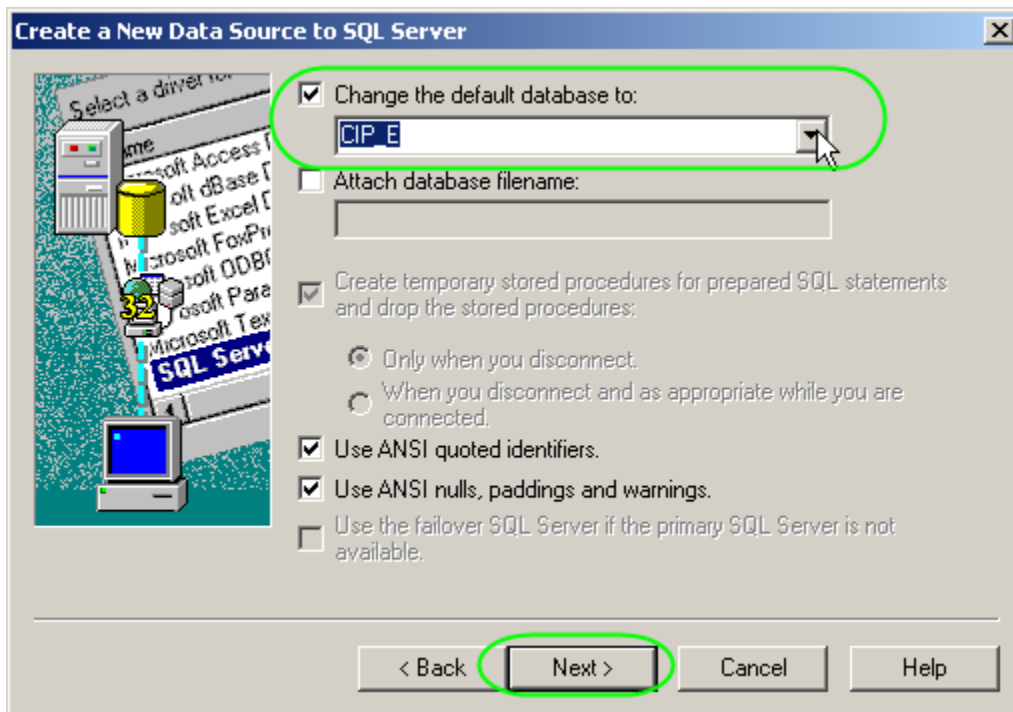


Figure 37: Set Default Database

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.

Updating SAMPLE_CAPTURE.INI File for Users

The SAMPLE_CAPTURE.INI will need to be modified and placed at a location where users will be able reference it. Users can copy lines from the sample file into their own CAPTURE.INI. The highlighted paths in the following example of the SAMPLE_CAPTURE.ini will need to be modified with your UNC path. See highlighted example below.

```
[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
```

Updating the CAPTURE.INI File on a Local Client Machine

CIS users will update their CAPTURE.INI file in order to establish a connection with CIP-E. Users should create a backup copy of the CAPTURE.INI file before proceeding. The CAPTURE.INI file is located in the Cadence Capture CIS install directory. Next, users will need to open the file, find the following sections and replace their paths with the ones shown in the SAMPLE_CAPTURE.INI file.

[Part Management]

[Footprint Viewer Type]

[Part Library Directories]

You will need to enter the appropriate filename for the <NAME OF DBC FILE> in the Part Management section. This will depend on the version of Cadence OrCAD Capture CIS you are using. Three .DBC files come with CIP-E:

- CIP-E V4.2 CIS DB 16.2.DBC
- CIP-E V4.2 CIS DB 16.3.DBC
- CIP-E V4.2 CIS DB 16.5.DBC

If any of sections do not exist, copy the text including the [] and the path to the CAPTURE.INI file. These can be placed anywhere after the line that contains “Version=”. 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.

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-E database.

Appendix

Installing Internet Information Services (IIS)

Below are the required components for IIS to work with CIP/CIP-E. The screen shot below is from Windows 7 (IIS v7.5). Options for other versions of Windows may appear slightly different, based on the version of IIS being installed.

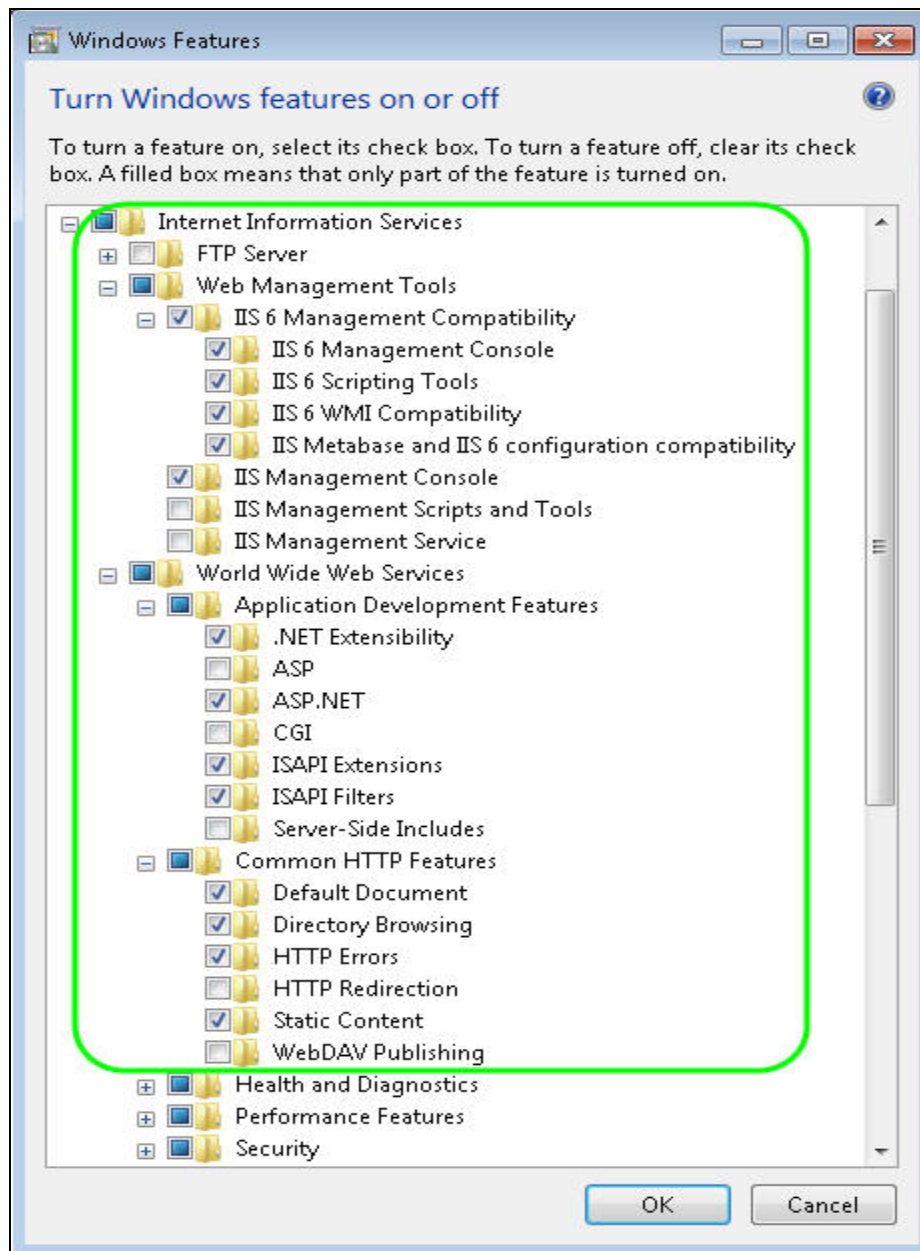


Figure 38: IIS Requirements (Example from Windows 7)

Locating Prerequisites

Microsoft .NET Framework 2.0

NOTE: Microsoft .NET Framework 2.0 is preinstalled by default on Windows 7, Vista, Server 2008, and Server 2008 R2.

Use the following link: <http://www.microsoft.com/download/en/details.aspx?id=1639>

If the link is no longer valid, go to the [Microsoft Download Center](http://www.microsoft.com/downloads/en/default.aspx) (<http://www.microsoft.com/downloads/en/default.aspx>) and search for “**Microsoft .NET Framework 2.0 Service Pack 2.**”

Download and install the executable that corresponds with your system (Itanium x64, x64, or x86). You may wish to download recommended updates afterwards.

Service Pack 2 for .NET Framework 2.0

Quick details

Version: SP2 Date Published: 1/16/2009
Change Language: English

Files in this download

The links in this section correspond to files available for this download. Download the files appropriate for you.

File Name	Size	
NetFx20SP2_ia64.exe	52.0 MB	DOWNLOAD
NetFx20SP2_x64.exe	46.0 MB	DOWNLOAD
NetFx20SP2_x86.exe	23.0 MB	DOWNLOAD

Figure 39: Microsoft .NET Framework 2.0 Service Pack 2 (x64 and x86)

Microsoft ASP.NET AJAX 1.0

Use the following link: <http://www.microsoft.com/download/en/details.aspx?id=883>

If the link is no longer valid, go to the [Microsoft Download Center](http://www.microsoft.com/downloads/en/default.aspx) (<http://www.microsoft.com/downloads/en/default.aspx>) and search for “ASP.NET AJAX 1.0.”

Download and install the executable. You may wish to download recommended updates afterwards.

ASP.NET AJAX is a set of technologies to add AJAX (Asynchronous JavaScript And XML) support to ASP.NET. It consists of a client-side script framework, server controls, and more.

Quick details

Version:	SP1	Date Published:	3/2/2007
Language:	English		

File Name	Size	
ASPAJAXExtSetup.msi	1.0 MB	DOWNLOAD

Figure 40: ASP.NET AJAX 1.0

Web Services Enhancements (WSE) 3.0 for Microsoft .NET

Use the following link: <http://www.microsoft.com/download/en/details.aspx?id=14089>

If the link is no longer valid, go to the [Microsoft Download Center](http://www.microsoft.com/downloads/en/default.aspx) (<http://www.microsoft.com/downloads/en/default.aspx>) and search for “**Web Services Enhancements (WSE) 3.0 for Microsoft .NET.**”

Download and install the executable. You may wish to download recommended updates afterwards.

The Web Services Enhancements (WSE) 3.0 for Microsoft® .NET is an add-on to Microsoft Visual Studio® 2005 and the Microsoft .NET Framework 2.0 that enables developers to build secure Web services based on the latest Web services protocol specifications.

Quick details

Version:	1	Date Published:	11/7/2005
Language:	English		

File Name	Size	
Microsoft WSE 3.0.msi	11.0 MB	DOWNLOAD

Figure 41: Web Services Enhancements (WSE) 3.0 for Microsoft .NET

Microsoft SQL with Tools/Management Studio

Use the following link: <http://www.microsoft.com/download/en/details.aspx?id=26729>

If the link is no longer valid, go to the [Microsoft Download Center](http://www.microsoft.com/downloads/en/default.aspx) (<http://www.microsoft.com/downloads/en/default.aspx>) and search for “**Microsoft SQL Server 2008 R2 SP1 - Express Edition.**”

- Read the descriptions of each executable, then download and install the appropriate file. Both **SQL Server 20XX with Tools and SQL Server 20XX with Advanced Services** include **Management Studio** in the installer.

You may wish to download recommended updates afterwards.

NOTE: If SQL Server is already installed, and you are just looking for SQL **Management Studio**, search for and download the version that corresponds to **your** SQL Server Instance.

Configuring Microsoft SQL Express

To ensure that OrCAD Capture CIS users will be able to connect to the database, you will need to open **SQL Server Configuration Manager**, then configure two options (also configurable during the SQL install). Go to the **Start Menu > All Programs > Microsoft SQL Server 20XX > Configuration Tools > Open SQL Server Configuration Manager**.

- **Enable TCP/IP:** In the upper left-hand corner, expand **SQL Server Network Configuration > Protocols for <SQLInstanceName>**. Double-click **TCIP/IP** and set **Enabled** to **Yes**, then click **OK**. Leave SQL Server Configuration Manager open.
- **Enable SQL Server Browser:** In the upper left-hand corner, click **SQL Server Services**. Double-click **SQL Server Browser**, click the **Service** tab, set **Start Mode** to **Automatic**, then click **OK**. Leave SQL Server Configuration Manager open.

To enable/verify Mixed Mode Authentication, bring up Microsoft SQL Server Management Studio Express. Go to the **Start Menu > All Programs > Microsoft SQL Server 20XX > SQL Server Management Studio**. SQL Server Management Studio can be downloaded directly from the [Microsoft Download Center](#) if you do not see this in your start menu.

Connect to your SQL Server Instance, right-click the Server Instance Name (e.g. <myserver>\SQLEXPRESS), then click **Properties**.

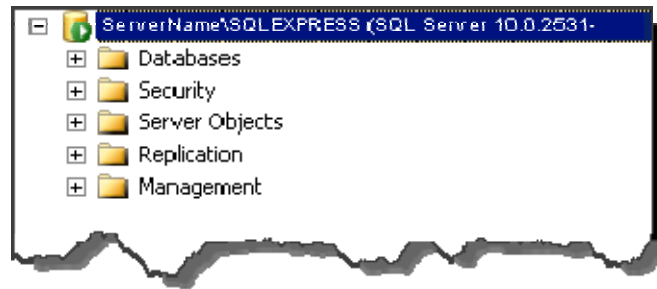


Figure 42: Open SQL Instance Properties

Next, click on **Security** and click **SQL Server and Windows Authentication mode**. Click **OK**.

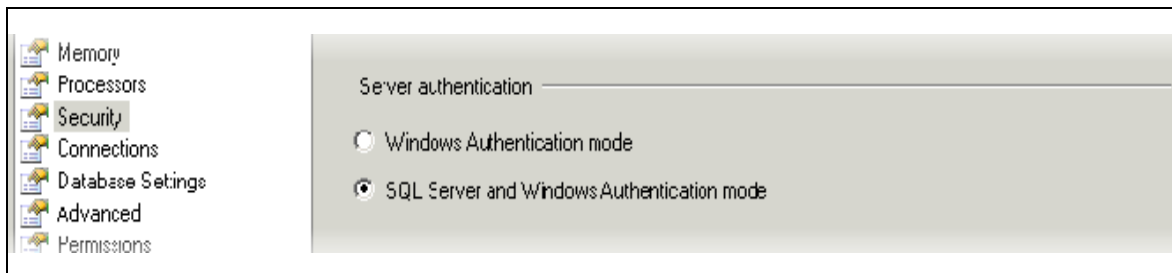


Figure 43: Enable Mixed Mode (SQL and Windows) Authentication

You are now required to Restart the SQL Instance. Right-click the Server Instance Name (e.g. <myserver>\SQLEXPRESS), click **Restart**, then (say **Yes** if you receive a SQL Agent warning and) click **Yes** to confirm.

Proxy Server

If proxy servers are used for internet access, you will need to modify the web.config file. To find this file, open IIS and navigate to Default Web Site - CIP-E. Open the file with Notepad and locate the Proxy Server section. The section of the code will look as follows. You will also need to replace **http://address:port** with your proxy address and port. The `<!--` and `-->` (flagged in red text) should be removed to uncomment the proxy settings.

```
<!-- Uncomment the following section and update the proxyaddress if a proxy is used at
your location -->
<!--<system.net>
  <defaultProxy>
    <proxy usesystemdefault="False"
      proxyaddress="http://address:port" bypassonlocal="True"
      autoDetect="False" />
  </defaultProxy>
</system.net>-->
```

Application Pool

For Windows 7, Vista, Server 2008, and Server 2008 R2, you will need to make sure that the web site Application Pool is configured to use .NET Framework version 2.0.

CIP User Guide

The CIP User Guide can be accessed directly from the CIP-E web interface, by clicking on one of the embedded Help links. Each link is tied to a section in the CIP User Guide.