



**EMA DESIGN AUTOMATION**

**Component Information Portal™ (CIP)**

**Installation Guide Version 5.0**

Updated 7/17/2014

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# Introduction

This document is intended as a guide for installing the Component Information Portal™. CIP complements the Cadence™ OrCAD® Capture CIS product. A CIP Client is also included that provides additional functionality when CIP is opened inside Capture CIS. To use CIP standalone, users can simply invoke CIP using Microsoft Internet Explorer (Version 9 and higher).

Please refer to the CIP User Guide for information on how to use CIP.

CIP consists of 4 components:

- CIP Web Engine – Web Portal to the installed 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
- CIP Client - Client application the enables users to preview and place parts directly from CIP onto a Capture schematic design

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

Once CIP 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 enables the general user to view data in the CIS database without consuming a CIS license. CIP 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.

## Technical Support

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

[Techsupport@ema-eda.com](mailto:Techsupport@ema-eda.com)

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

## What's Included?

The files included with this installation can be used for new or upgrade installation. Follow the instructions for the corresponding sections based on your specific need.

### *Server Files*

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

## New Installation

For a new installation, the **CIP Installer** will install the following:

- CIP Web Engine
- ODBC connection to the CIP SQL database (named CIP-E)
- Blank CIP SQL database (named CIP\_E)
- Cadence OrCAD Capture CIS Database Configuration Files (.DBC)
- CIP User Guide
- End User License Agreement (EULA)
- CIP Client Installer (for download by client)

The **Starter Library Installer** will populate the blank CIP 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 5.0 Installer (CIP-E.exe) can only be used to upgrade 4.003.XXXX installations of CIP. If you have an earlier version of CIP, you will need to obtain 4.003.XXXX and upgrade to this version first. The Installer performs the following tasks when version 4.003.XXXX of CIP is encountered:

- Upgrades the configuration of the CIP SQL Database (named CIP\_E).
- Updates the CIP Web Engine to work with the latest database structure and include all of the new features available in version 5.0.
- Provides database configuration (.DBC) files to work with the latest CIP database for OrCAD Capture CIS versions 16.3, 16.5 and 16.6.
- Provides new CIP User Guide and End User License Agreement (EULA).
- Add CIP Client Installer to the CIP installed location (for download by client)
- Add CIP\_AppPool to IIS

## Minimum Requirements for Installing CIP

CIP requires the following system prerequisites:

### System Requirements

#### CIP Web Server:

|                                           |                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Compatible Microsoft Operating Systems    | <ul style="list-style-type: none"> <li>Windows: 7 SP1, 8.0, 8.1</li> <li>Windows Vista SP2</li> <li>Windows Server: 2008, 2008R2, 2012, 2012R2</li> </ul>                                                                                                                                                                        |
| Other Microsoft Components (All Required) | <ul style="list-style-type: none"> <li>Internet Information Services (IIS) 7.0 or greater</li> <li>.NET Framework 4.0 or 4.5.1</li> </ul>                                                                                                                                                                                        |
| Hardware                                  | <ul style="list-style-type: none"> <li>Processor <ul style="list-style-type: none"> <li>Recommended Dual-Core 2GHz or higher</li> </ul> </li> <li>Memory <ul style="list-style-type: none"> <li>Recommended 1 GB or greater</li> </ul> </li> </ul> <p>Disk space will vary based on usage of Web Server for data sheet files</p> |

#### CIP Database Server:

|                                                    |                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SQL Server with Database Tools (Management Studio) | <ul style="list-style-type: none"> <li>Minimum <ul style="list-style-type: none"> <li>Microsoft SQL Server 2008 or later</li> <li>Email Notifications are not available with SQL Server Express versions</li> </ul> </li> </ul>                                                                                             |
| Compatible Microsoft Operating Systems             | <ul style="list-style-type: none"> <li>Windows: 7 SP1, 8.0, 8.1</li> <li>Windows Vista SP2</li> <li>Windows Server: 2008, 2008R2, 2012, 2012R2</li> </ul>                                                                                                                                                                   |
| Hardware                                           | <ul style="list-style-type: none"> <li>Processor <ul style="list-style-type: none"> <li>Recommended Dual-Core 2GHz or higher</li> </ul> </li> <li>Memory <ul style="list-style-type: none"> <li>Recommended 4 GB or greater</li> </ul> </li> </ul> <p>Disk space will vary based on number of parts – Recommended 10 GB</p> |

#### CIP Client

|                             |                                                                                                                                                                                                                   |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Internet Browsers Supported | <ul style="list-style-type: none"> <li>Microsoft Internet Explorer 9.0 or later (Required when opening CIP in CIS)</li> <li>Mozilla Firefox (web access only)</li> <li>Google Chrome (web access only)</li> </ul> |
| Cadence OrCAD Capture CIS   | <ul style="list-style-type: none"> <li>16.6 ISR 28 or higher</li> </ul>                                                                                                                                           |

The libraries and files required by CIP 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

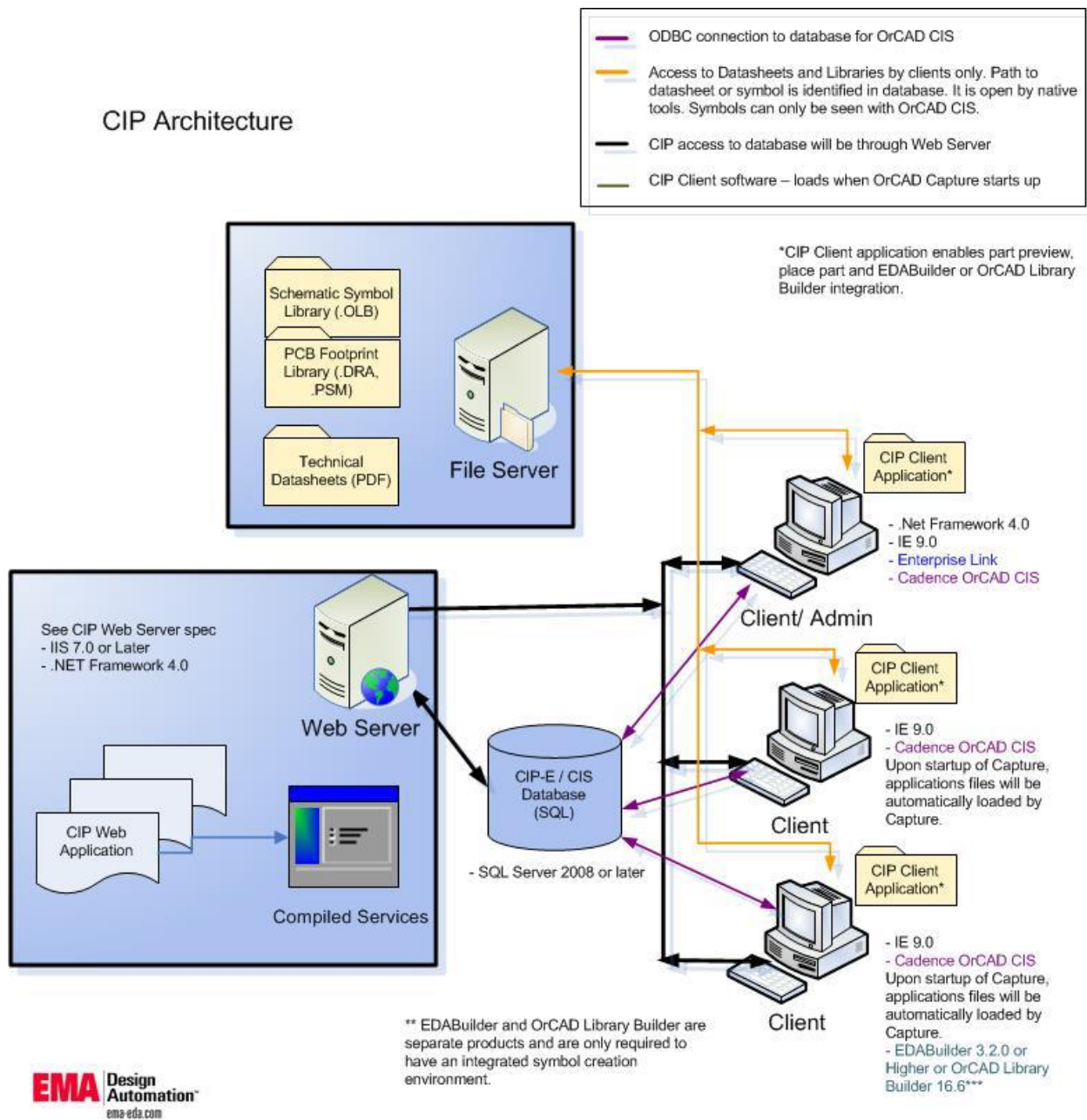


Figure 1: CIP Architecture Diagram

## 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. Setup of IIS required for CIP is shown in the appendix section on [Installing Internet Information Services](#).

### *Determine if you have .NET Framework 4.0 or 4.5*

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



| Organize ▾                     |                       | Uninstall/Change |         |           |  |
|--------------------------------|-----------------------|------------------|---------|-----------|--|
| Name ▴                         | Publisher             | Install...       | Size    | Version   |  |
| Microsoft .NET Framework 4.5.1 | Microsoft Corporation | 11/27/2013       | 38.8 MB | 4.5.50938 |  |

If you already have .NET 4.5.1 installed, then you will not see 4.0 in your list of installed programs. If either .NET Framework 4.0 or 4.5 are not present on the web server, you will need to make sure they are properly installed in order for CIP to work. A reboot of your web server may be required. Depending on order enabling IIS and installing .NET Framework 4.0/4.5, you may need to register .NET framework with IIS. To register .NET 4.0, open command prompt as an Administrator. Navigate to the following folder and type the following.

```
C:\windows\Microsoft.NET\Framework64\v4.0.30319> aspnet_regiis.exe -i -enable
```

See the [Appendix](#) for download details.

## Installing CIP

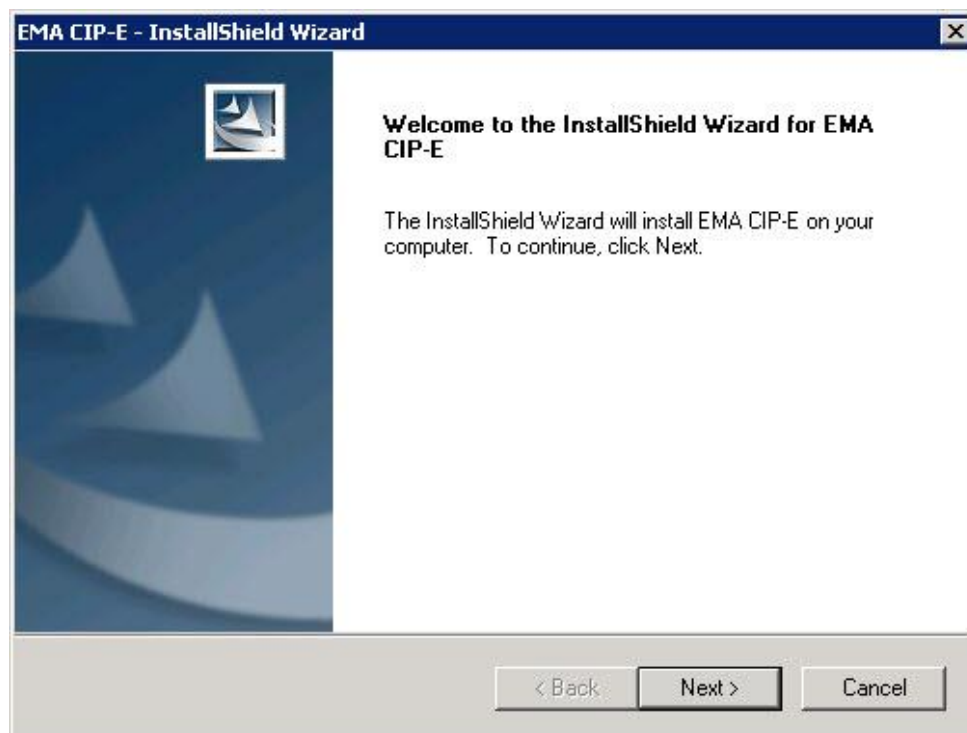
### *Installing the CIP Web Engine, Database, and Supporting Documents*

- ☐ Close all open applications.

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

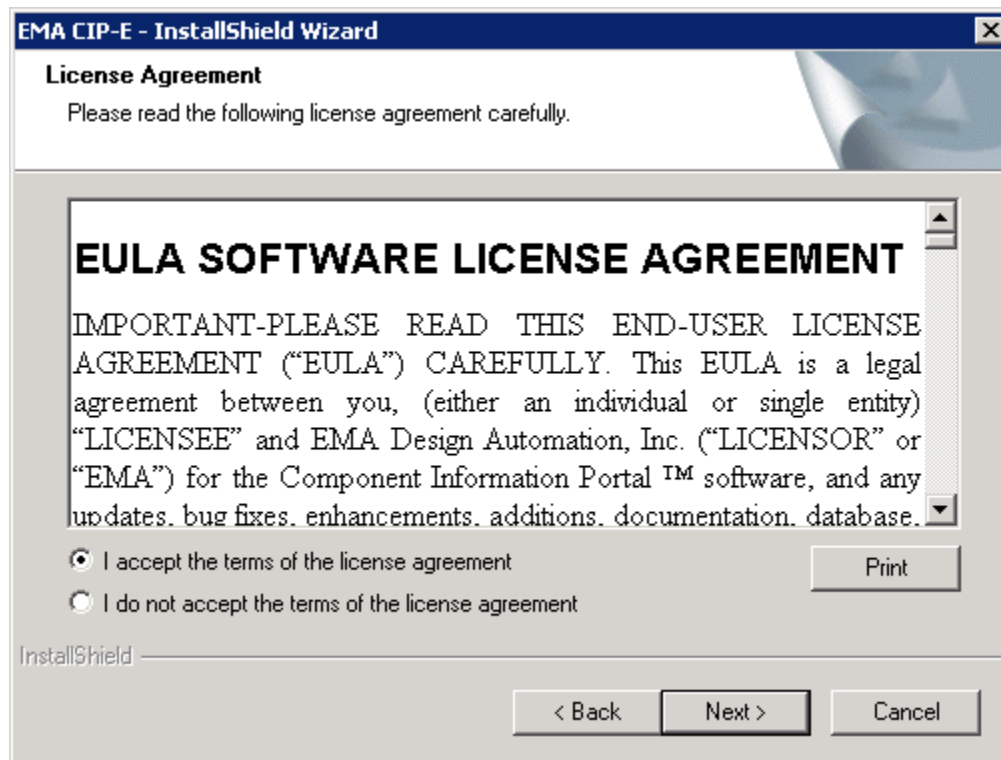
Please follow the steps below to install and use CIP. Running the **CIP-E.exe** program will guide you through placing CIP on the web server machine, creating the SQL database and installing the supporting documents. The installation of the CIP Web Engine must be completed on the Web Server machine.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

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



**Figure 2: CIP-E Welcome to the Installer Dialog**

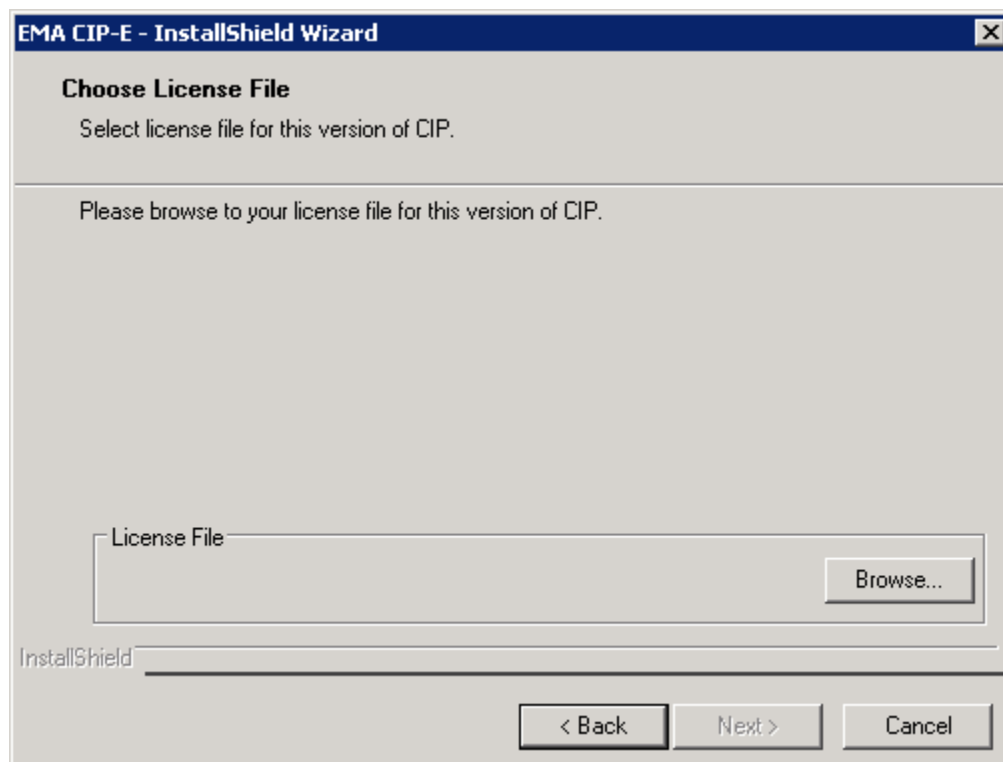
Click **Next**. The License Agreement Dialog will appear:



**Figure 3: 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:

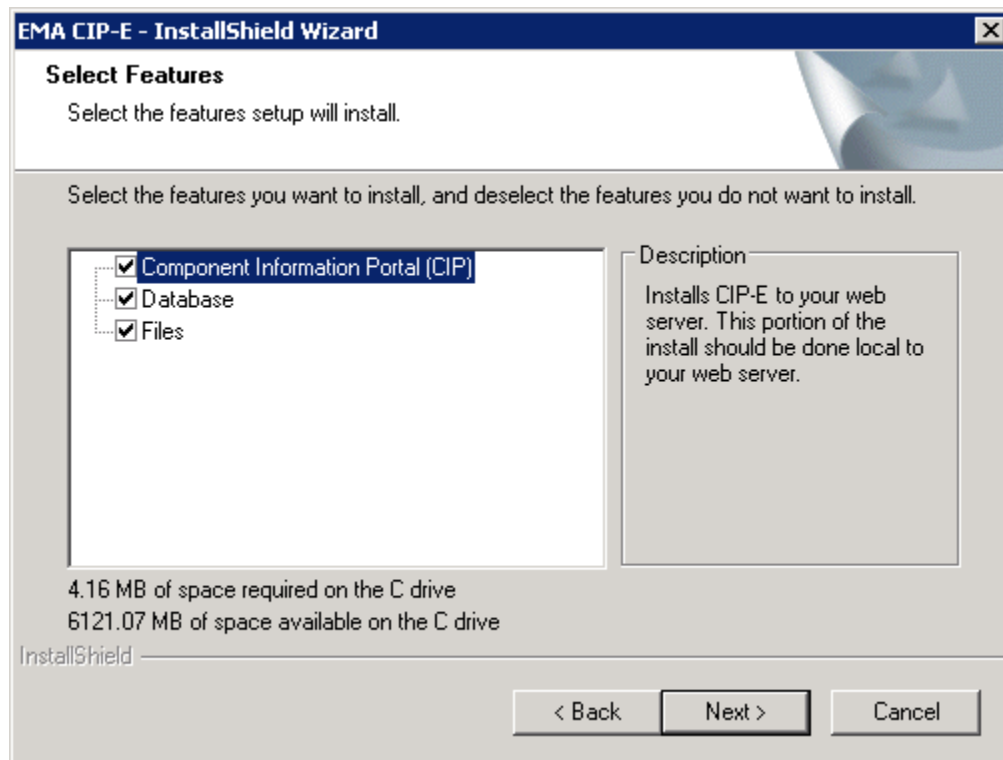


**Figure 4: Choose License File Dialog**

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 5: Select Features Dialog**

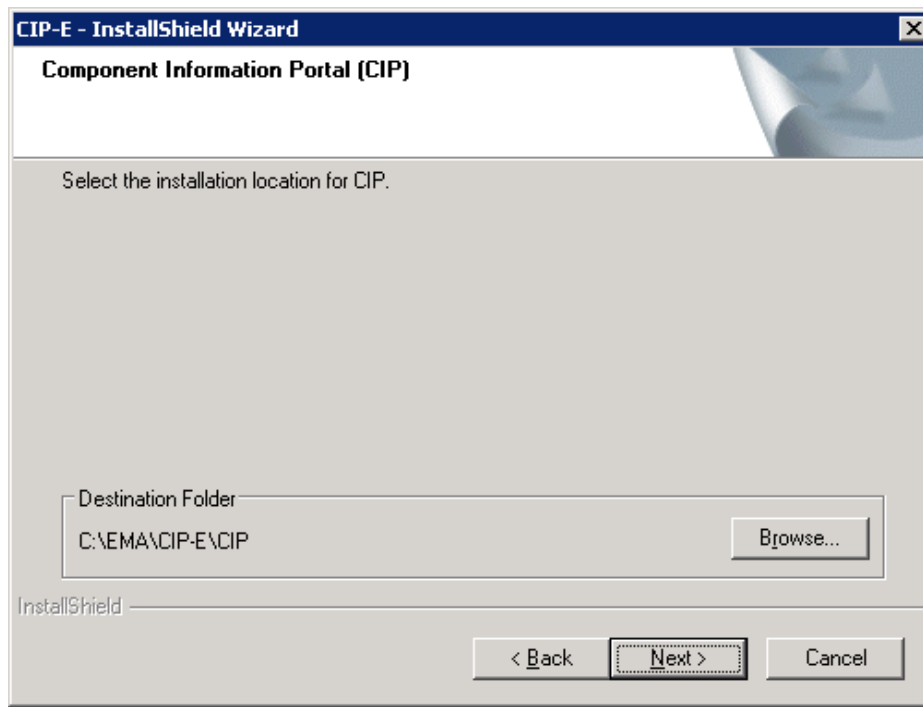
By default, **Component Information Portal (CIP)**, **Database** and **Files** are checked. Click **Next** to continue.

Note: If you plan on using a single Database and Web Server to host the CIP 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 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 component database.

If a remote install of the CIP 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 Database (locally) from the Database Server by running the CIP installer and selecting only the **Database** option.

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

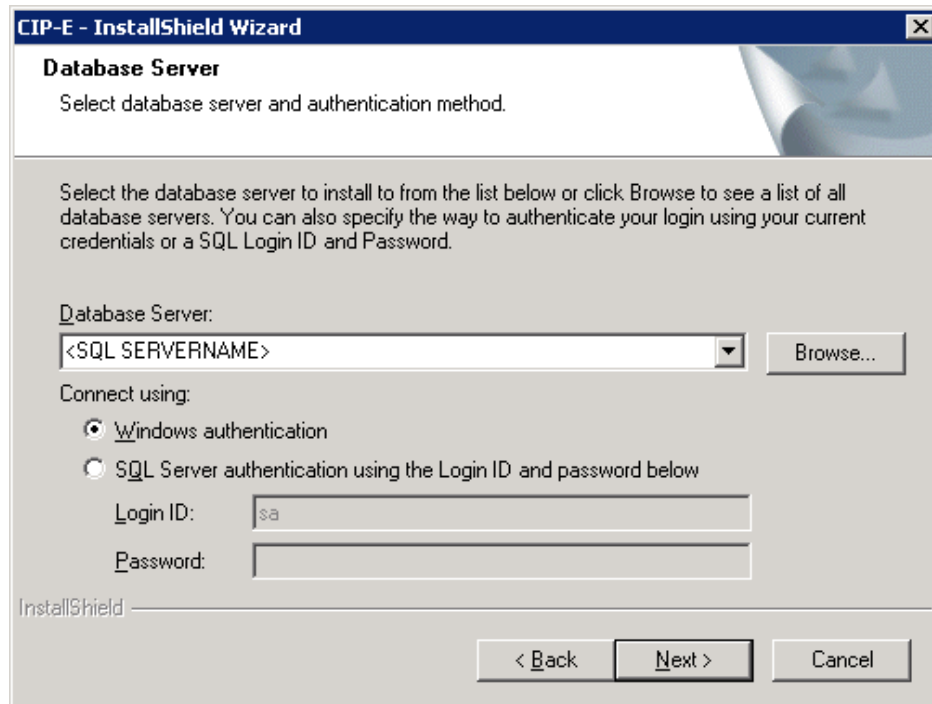


**Figure 6: CIP Installation Location Dialog**

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. Please see the [Setting Folder Permissions on the CIP BOMs folder](#) section.

The **Database Server** Dialog will appear:



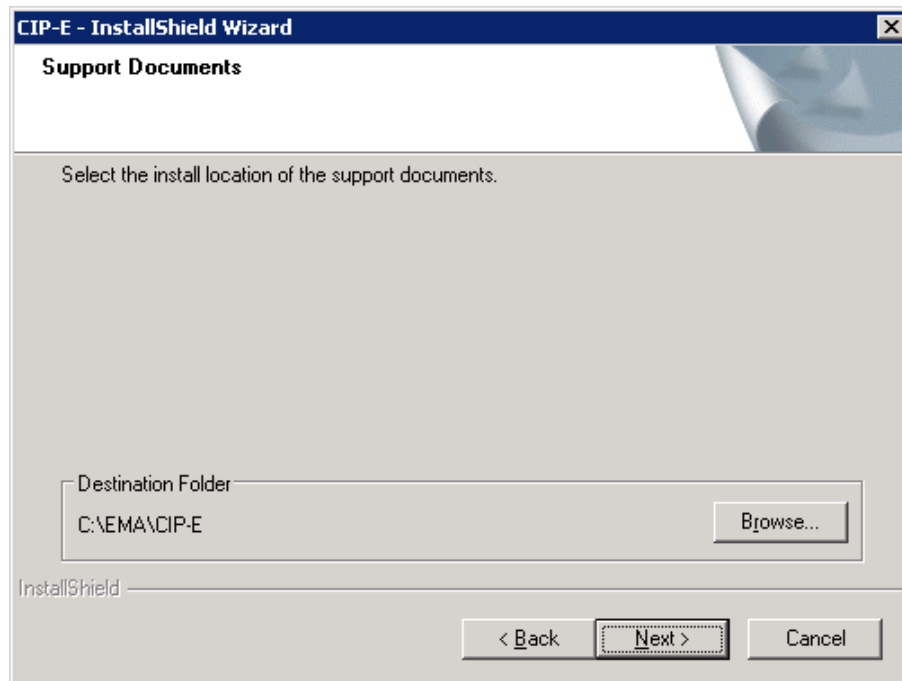
**Figure 7: Select Database Server Dialog**

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 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 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.

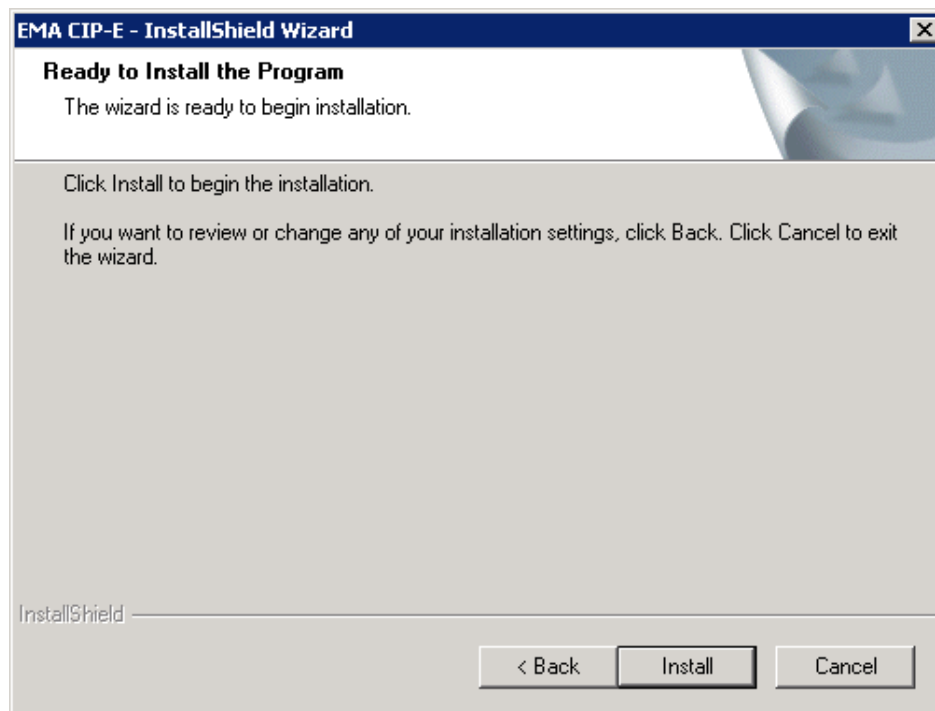
The **Support Documents** Dialog will appear:



**Figure 8: Support Documents Dialog**

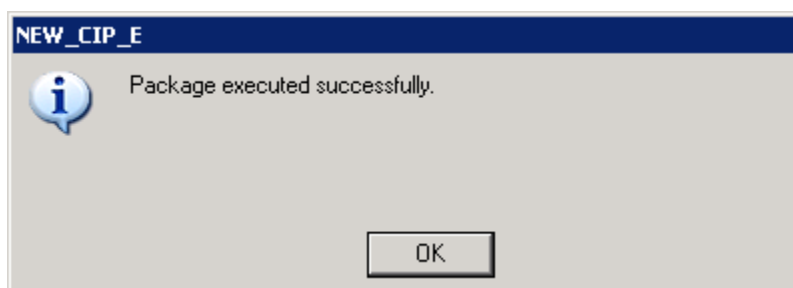
Specify the folder location that will contain the CIS Configuration files, CIP User Guide and EULA. Click **Next** to continue.

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



**Figure 9: Install the Program Dialog**

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



**Figure 10: Package Executed Successfully**

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

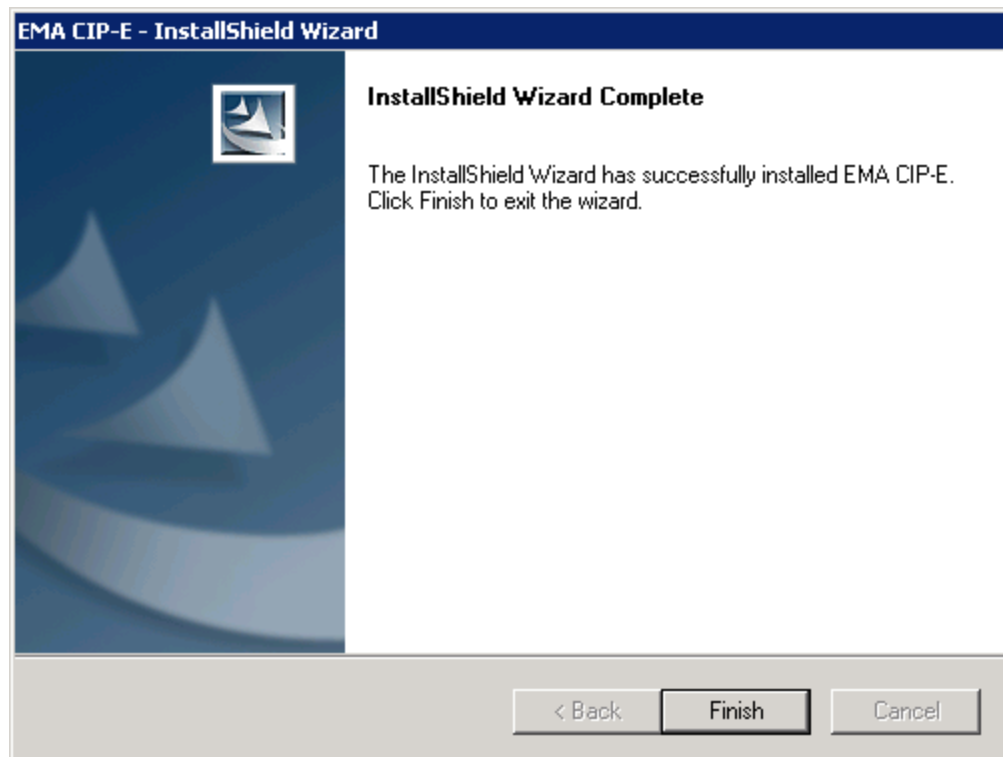


Figure 11: Install Complete

Click **Finish**.

## Setting Permissions on the CIP 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:

Navigate to the CIP 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.

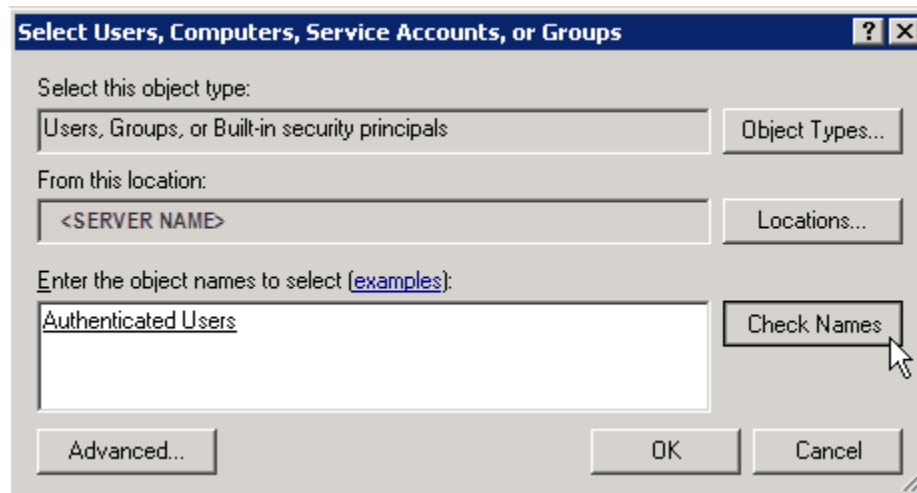


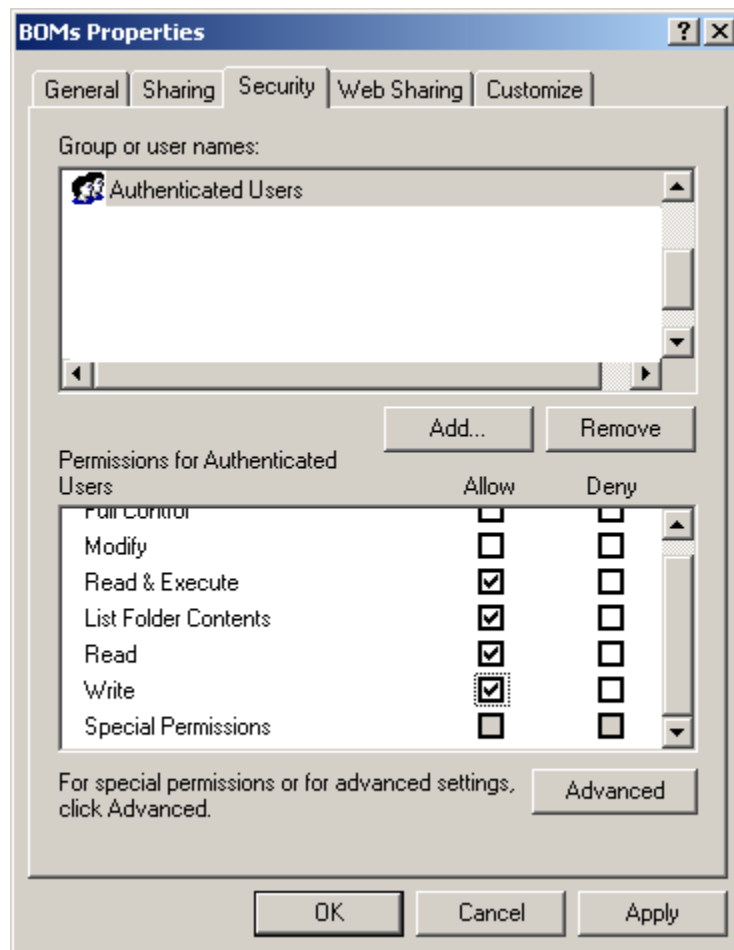
Figure 12: Select Users, Computers, or Groups

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 13: Assigning permissions to the Authenticated Users Group**

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

## Validating the CIP ODBC Data Source

During the CIP installation, an ODBC data source will be created, which is required for the CIP Web Engine. However, for some Operating System environments, you may need to configure the ODBC data source manually. Following the step in this section to validate/configure the ODBC data source.

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.

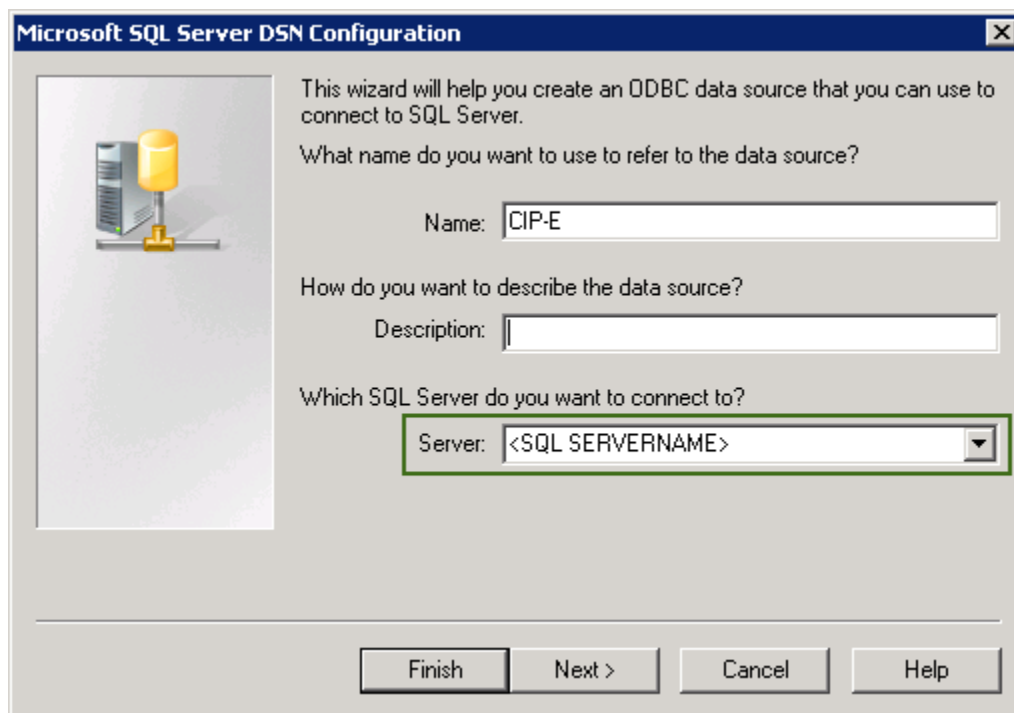
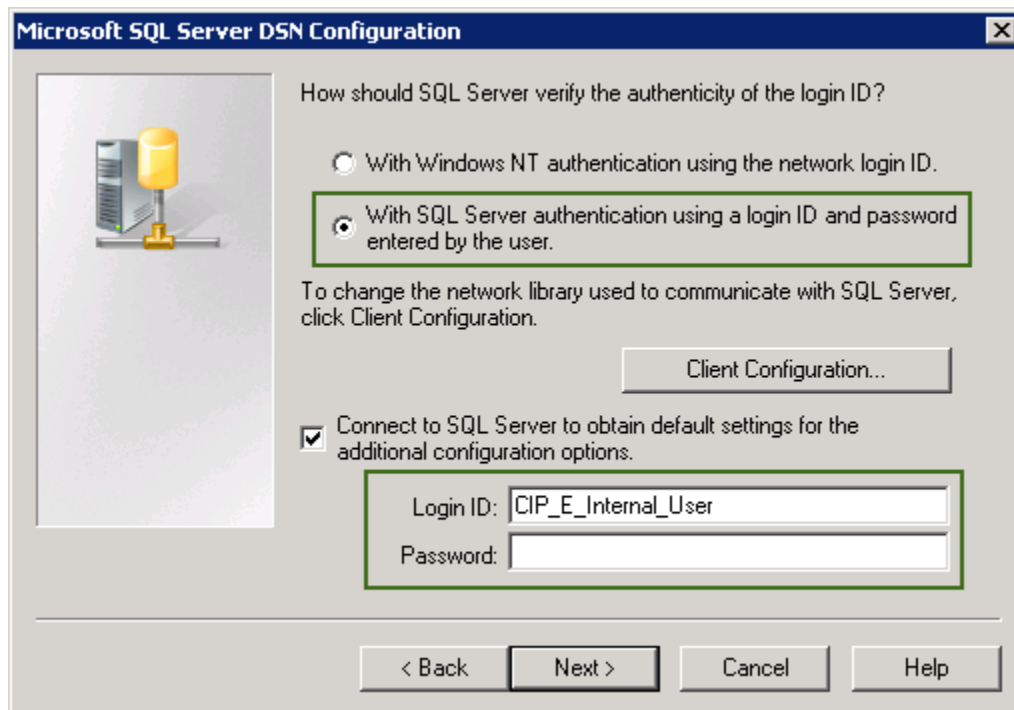


Figure 14: Checking ODBC Settings – Verify SQL Server Name

Check and ensure that the <SERVERNAME> matches the SQL Server instance where the CIP 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 15: 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.

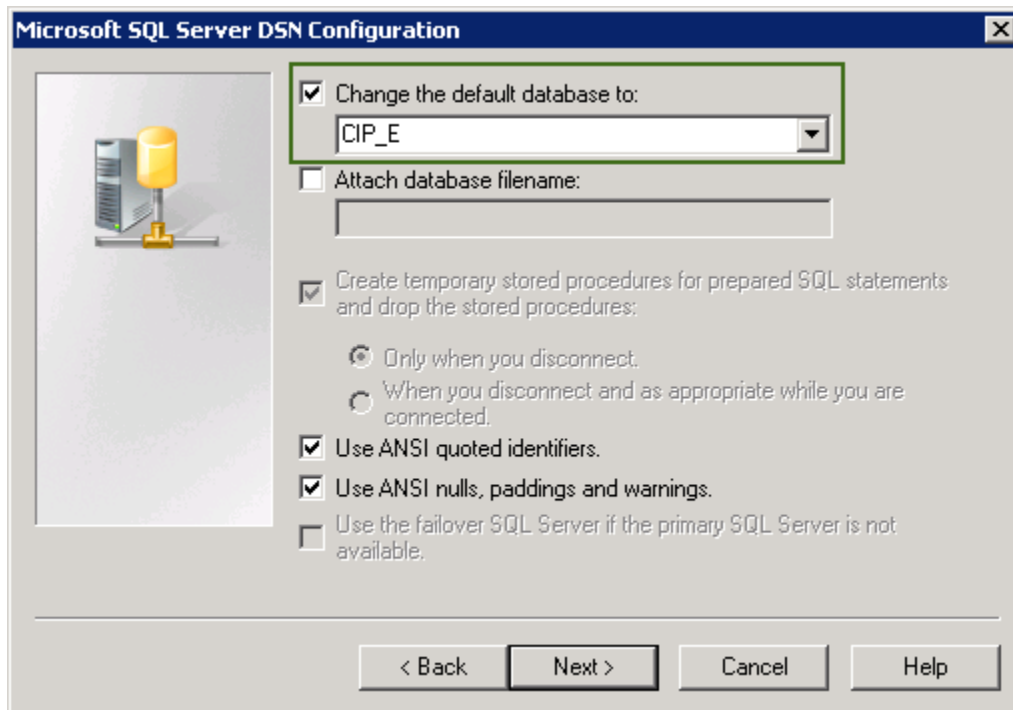
Login ID: CIP\_E\_Internal\_User  
Password: bra#ru5=phaT

**Note:** If you change the password for this SQL user, you will also need to change the password in the web.config in order for the CIP Web site to be able to access the database.

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 16: 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, 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.

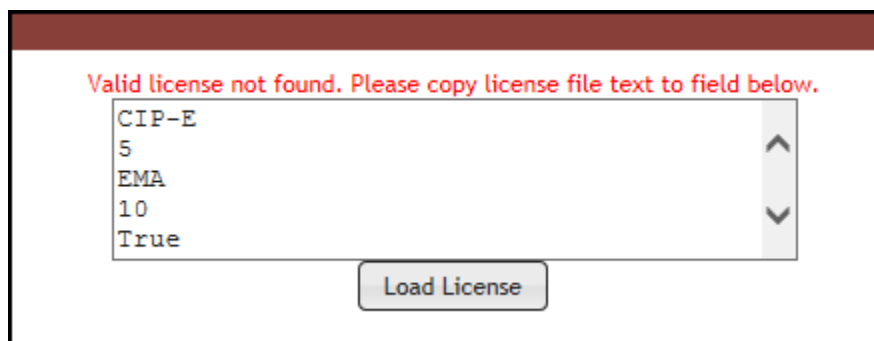


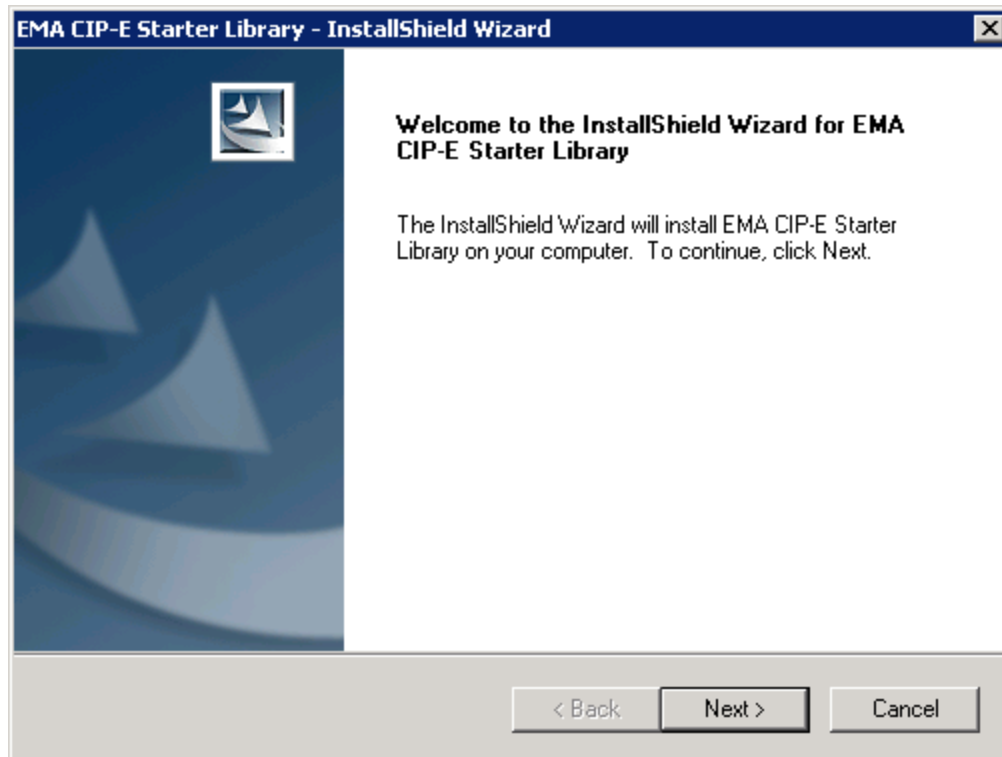
Figure 17: Load License

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. You can access the CIP User Guide, after logging in, by clicking on **Help**. The User Guide is also located in the CIP 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 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 18: CIP 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:

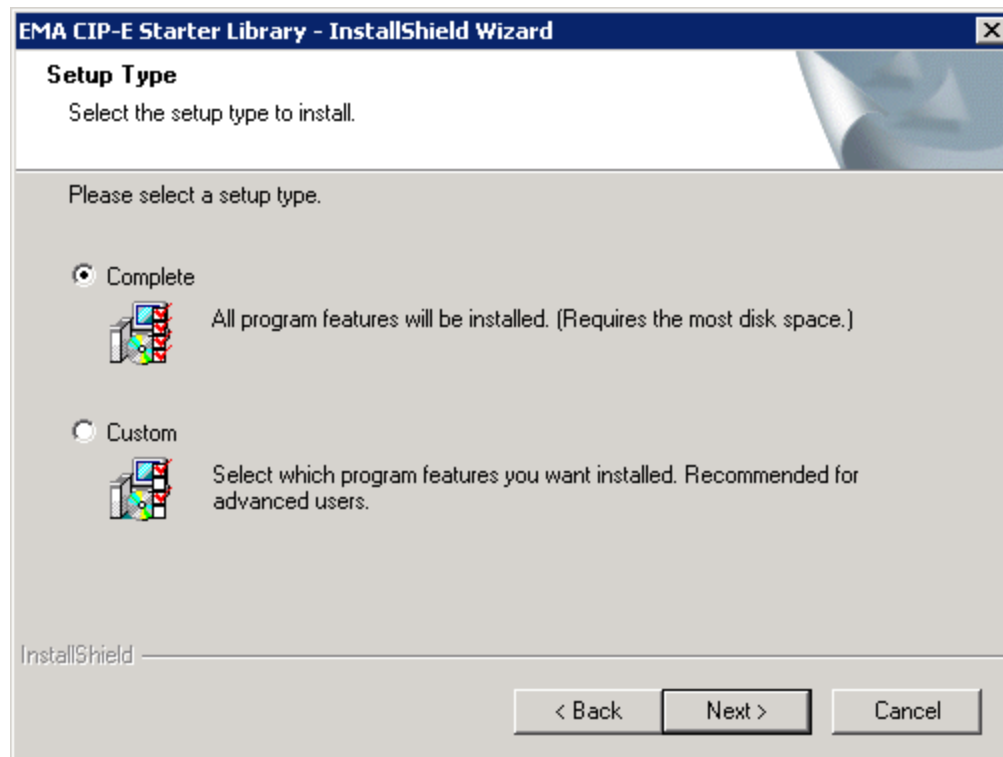
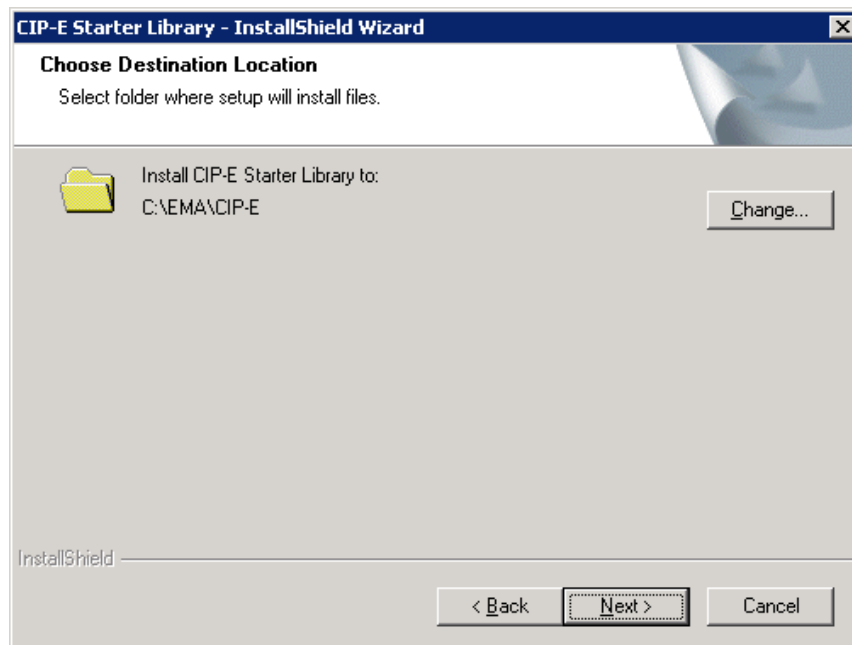


Figure 19: Setup Type Window

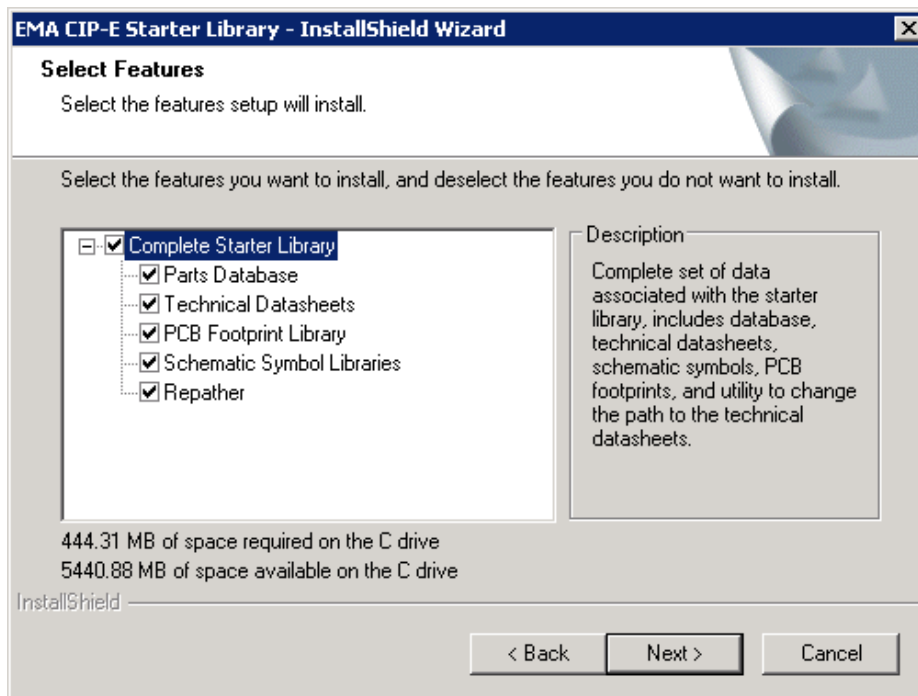
If the **Complete** option is selected, all features will be installed to C:\EMA\CIP-E. To install to a different location or a few of the options, select the **Custom** option. After making a selection, click **Next** to continue.

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.



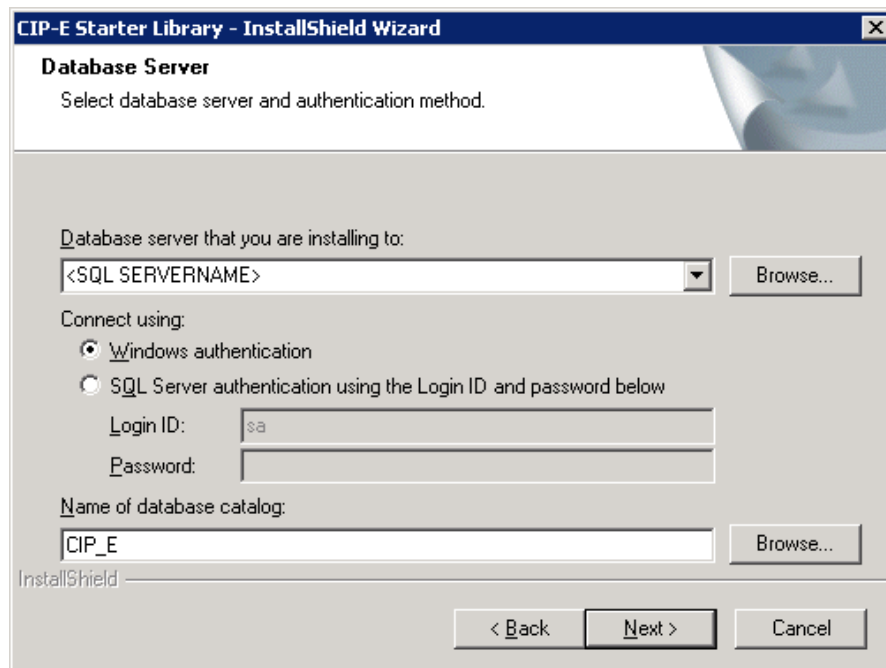
**Figure 20: Choose Destination Location Window**

The Select Features Window will appear. The **Complete Starter Library** option will be checked by default. Click **Next** to continue.



**Figure 21: Select Starter Library Features**

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.



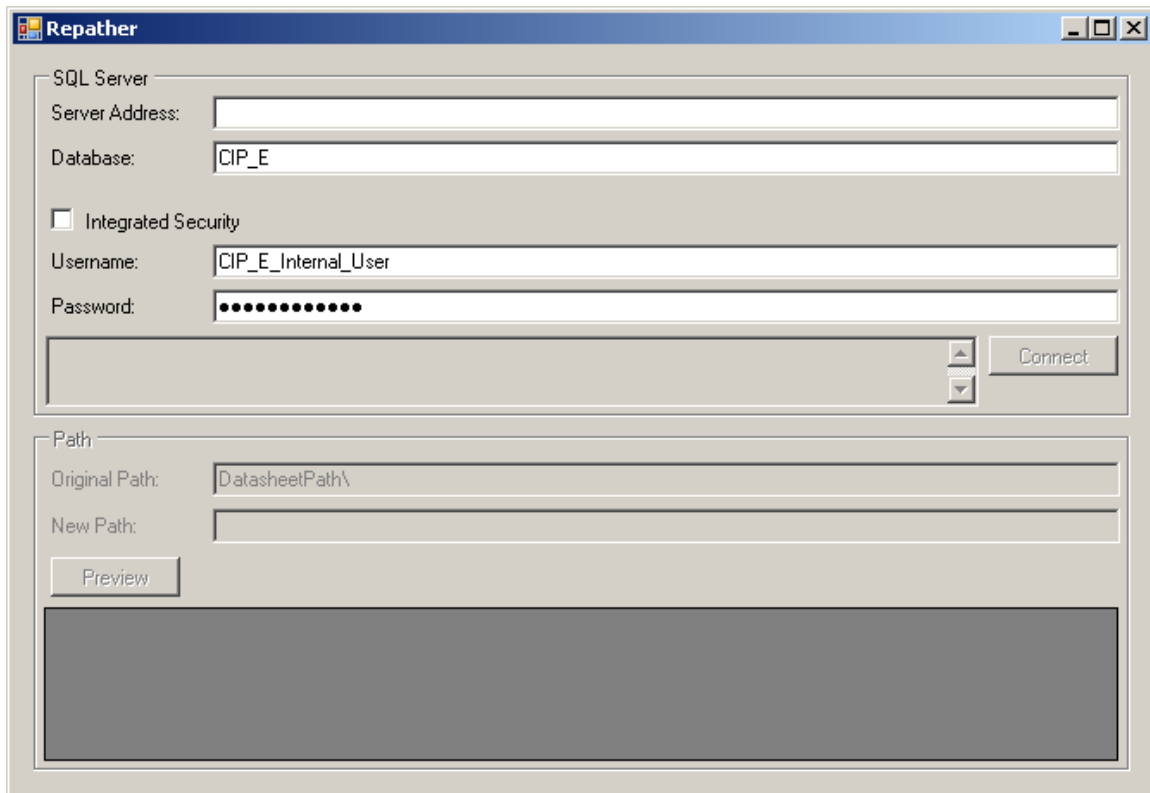
**Figure 22: Select Database Server and Database Catalog**

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 Starter Library, you will receive two prompts indicating that the Package has executed successfully. Click **OK**. When the installation is completed, 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 23: Repather Interface**

The path of the technical datasheet links will need to be updated in order to access the datasheets directly from CIP. 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 Users.

Manufacturer Part Data

History

---

Manufacturer Data

|              |                                      |
|--------------|--------------------------------------|
| Manufacturer | Kemet                                |
| Datasheet    | DatasheetPath\Kemet\F3102_C0G[1].pdf |

**Figure 24: Datasheet Link**

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

Repather

SQL Server

Server Address: <SQL SERVERNAME>

Database: CIP\_E

☐ Integrated Security

Username: CIP\_E\_Internal\_User

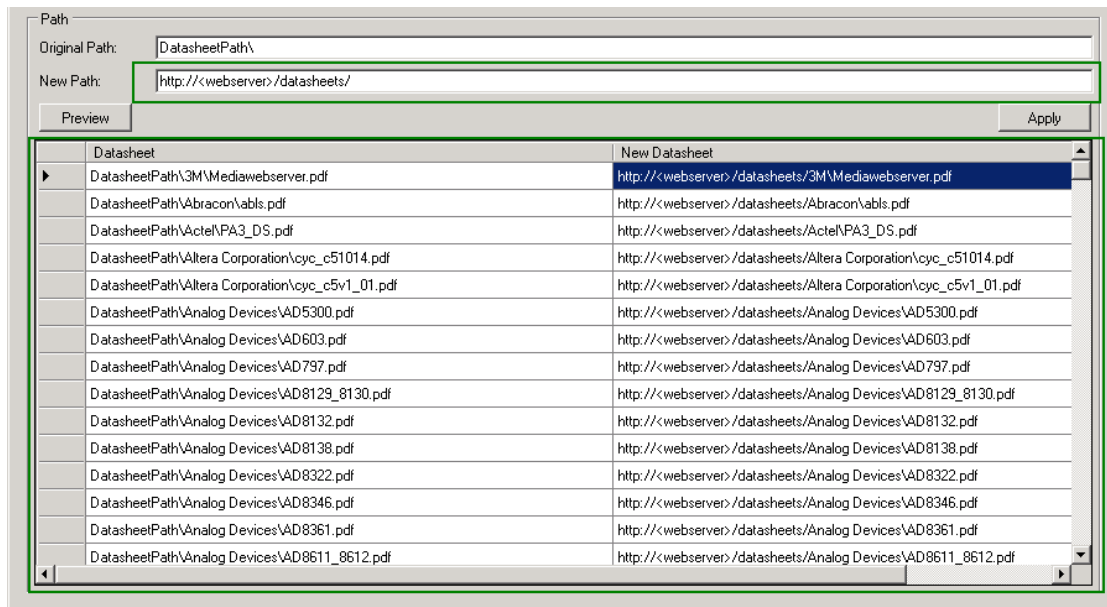
Password: .....

Connection Successful

Connect

**Figure 25: Repather - SQL Server Settings**

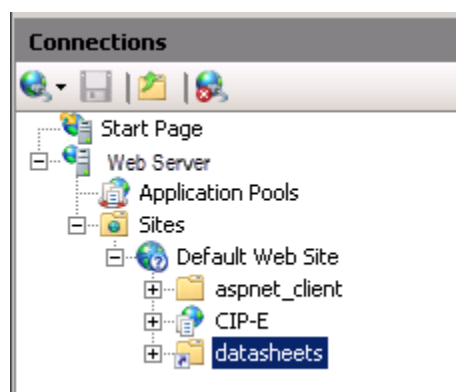
Once the connection is successful, you will be able to enter the path to the technical datasheets. Populate the **New Path** field with the location of the Technical\_Datasheets folder that was installed with the Starter Library. Next, click on the **Preview** button. This will allow you to preview the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



**Figure 26: 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 and click on one of the datasheet links in the CIP engine. Users will now be able to launch the datasheets from both CIP and CIS.

We recommend that you add a virtual directory in IIS to the installed datasheets path and set the datasheets path this location.



**Figure 27: Virtual Directory Added IIS**

## Upgrading CIP

### ***Upgrading the CIP Web Engine, Database and Supporting Documents***

Please follow the steps below to upgrade CIP. These steps are only valid if CIP Version 4.003.XXXX (4.3) was installed on the server machine. Running the **CIP-E.exe** program will guide you through upgrading CIP on the server machine, updating the SQL database and installing supporting documentation.

**Note: If you have made any modifications to the CIP 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.**

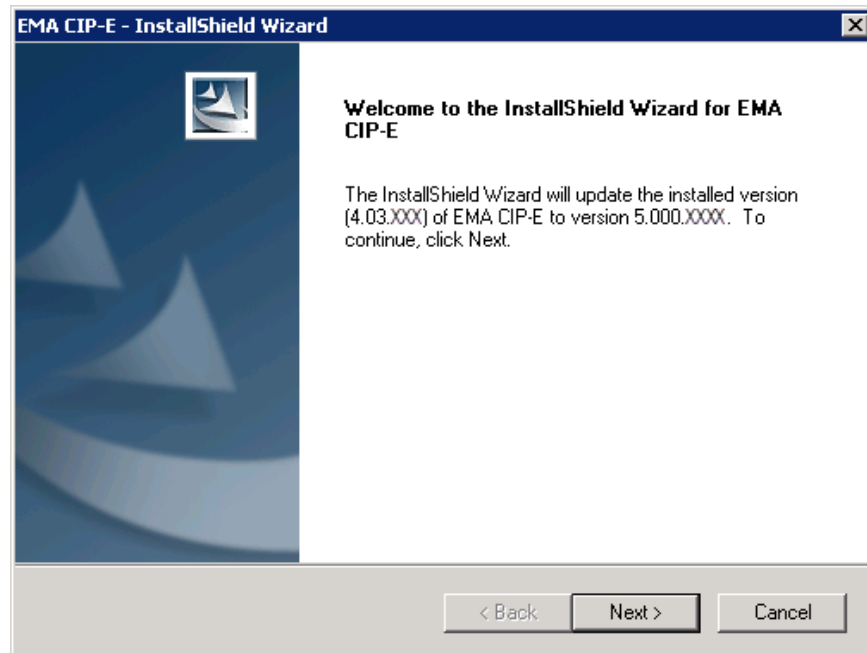
If you performed two separate installations for the previous version, one on the Web Server and the other on the Database Server, you will need to run the CIP installer on both machines to upgrade the CIP Web Engine files and Database.

***We highly recommend that you create a backup of your database before you start the upgrade process.***

If .NET 4.0 Framework have not be previously registered with IIS, you will need to do this before you start the installation. To register .NET 4.0, open command prompt as an Administrator. Navigate to the following folder and type the following.

```
C:\windows\Microsoft.NET\Framework64\v4.0.30319> aspnet_regiis.exe -i -enable
```

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



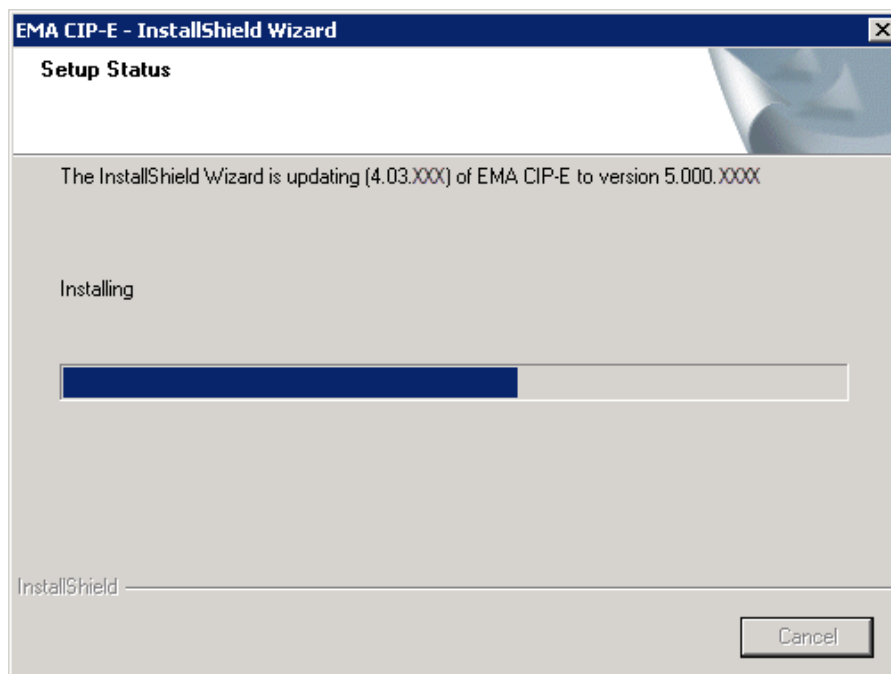
**Figure 28: Updating CIP – Welcome to the Installer Dialog**

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 29: Setup Status Dialog**

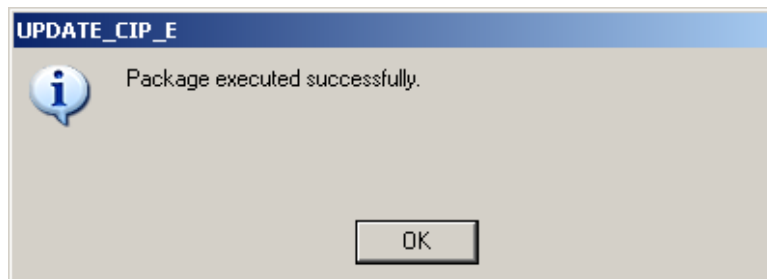
The update status bar will fill as the update process continues. Next, the following window will appear.



**Figure 30: Upgrade - Select Database Server Dialog**

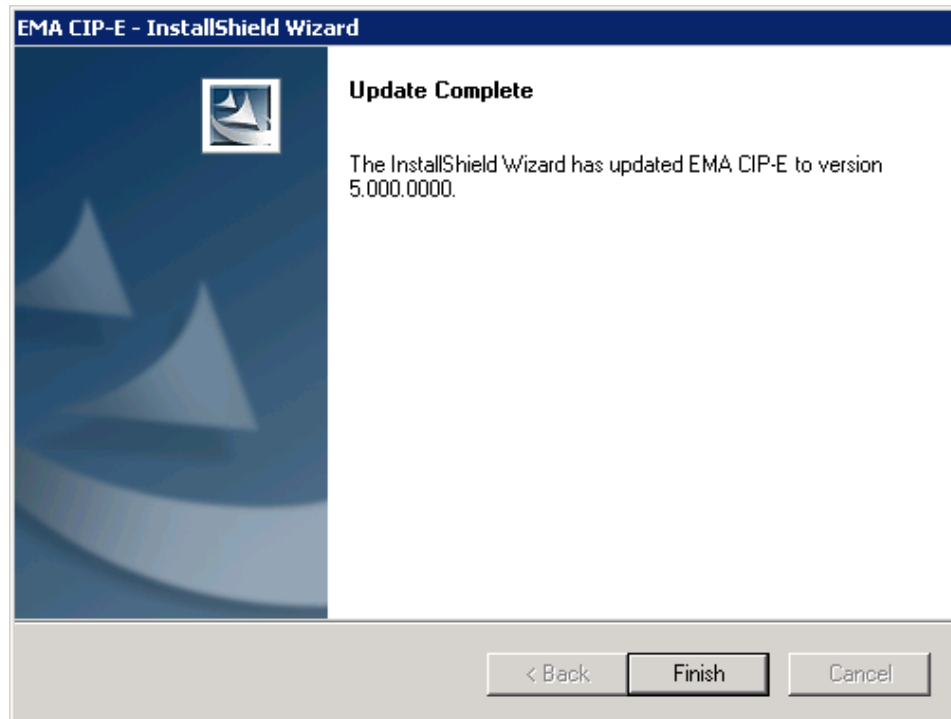
Under the Database Server section, select the **Database Server** from the drop-down list or enter the instance name or IP address of the database server currently hosting the CIP component database. Next, select the method of authentication. If **SQL Server authentication** is selected, enter the **Login 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 31: Update - Package Executed Successfully**

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



**Figure 32: 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 ODBC Data Source](#) section.

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

## Verify CIP App Pool

With this upgrade, a new application pool has been added to Internet Information Services (IIS). To verify that the application pool has been correctly configured, start the **Internet Information Services (IIS) Manager**.

While on the Web Server, click on **Start Menu > Control Panel > Administrative Tools > Internet Information Services (IIS) Manager**. (This is just one of the ways to access Administrative Tools.) After the IIS manager is opened, expand your webserver and site. Then right click on CIP-E and then select **Manage Application > Advanced Settings...**

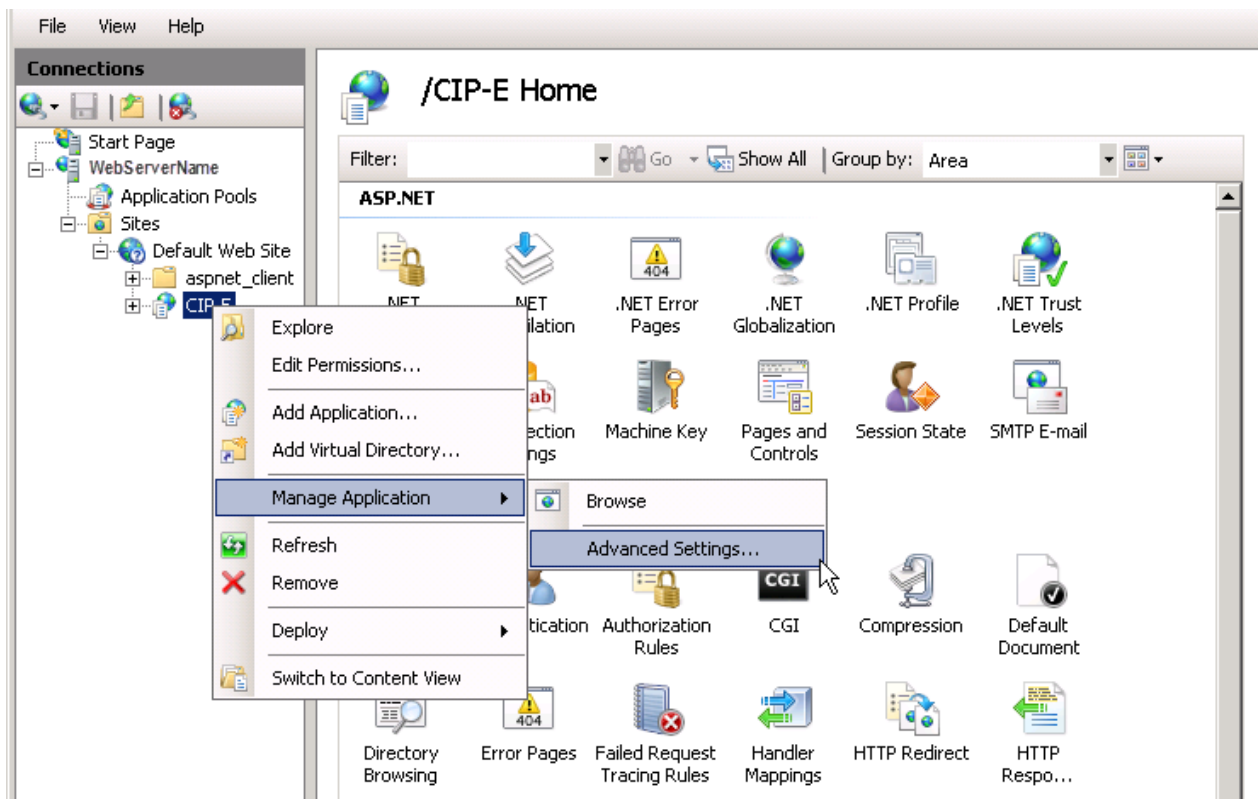


Figure 33: Select Advanced Settings

At the Advanced Settings dialog, verify that the Application Pool is set to CIP\_AppPool. If it is not, select the ellipsis (...) button for the application pool to bring up the application pool setup screen.

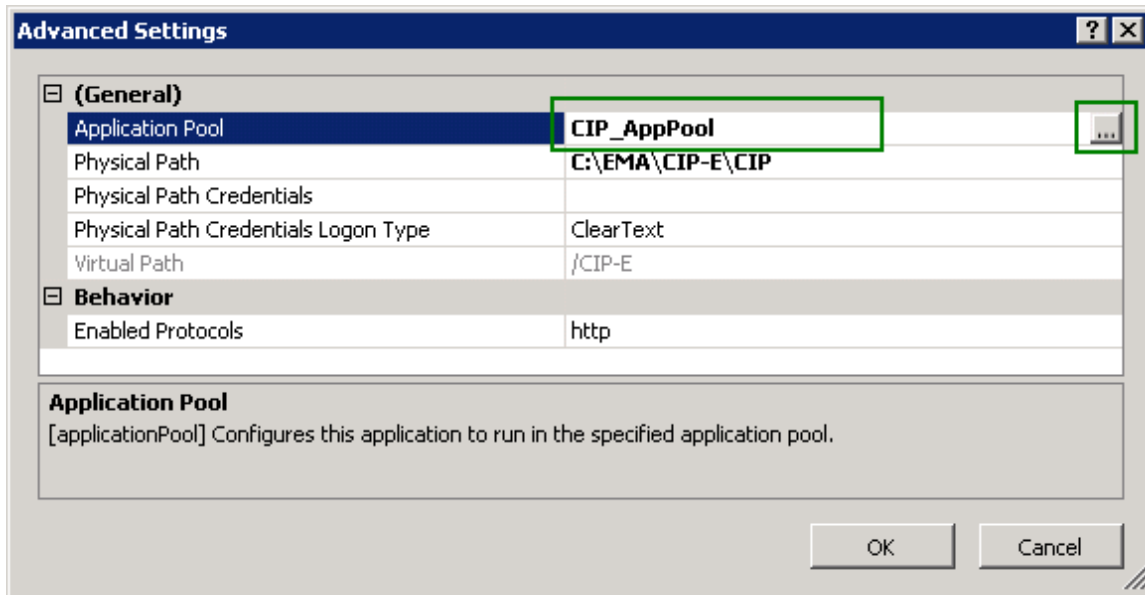


Figure 34: Select Application Pool

At the Application Pool set up screen, select the **CIP\_AppPool** and click **OK**.

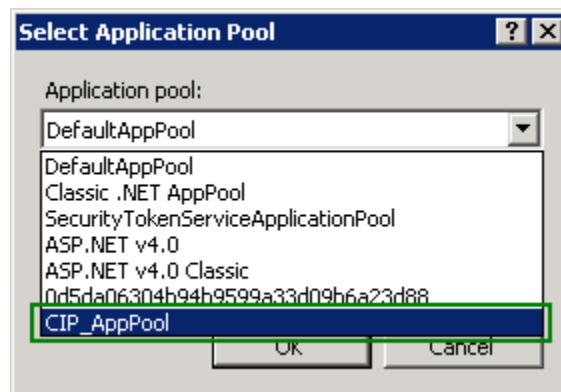


Figure 35: Change Application Pool

## 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 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 installation directory (default C:\EMA\CIP-E\Configuration\_Files)

## Client Installation

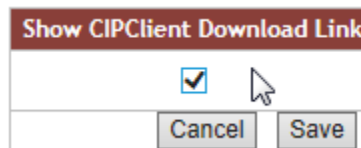
The CIP Client Installer and installation guide will be placed onto the CIP-E site by the CIP web installation. After installing CIP, bring up CIP and click on the Help Link for the client installation guide. The CIP Client installer will be at the installed directory of CIP.

<CIP Installation directory>/CIP/EMA CIP Client Installer.zip

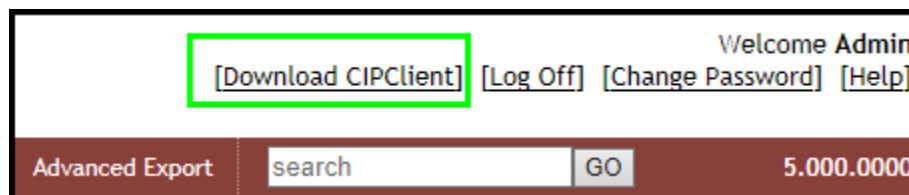
A CIP Admin user can configure CIP to enable each user to download the CIP Client by individual users. The Admin user will need to bring up CIP-E > Admin > Preferences



At the option to *Show CIPClient Download Link*, select the checkbox and click **Save** to enable this functionality



Once enabled, users will be able to download the CIP Client from the CIP Page.

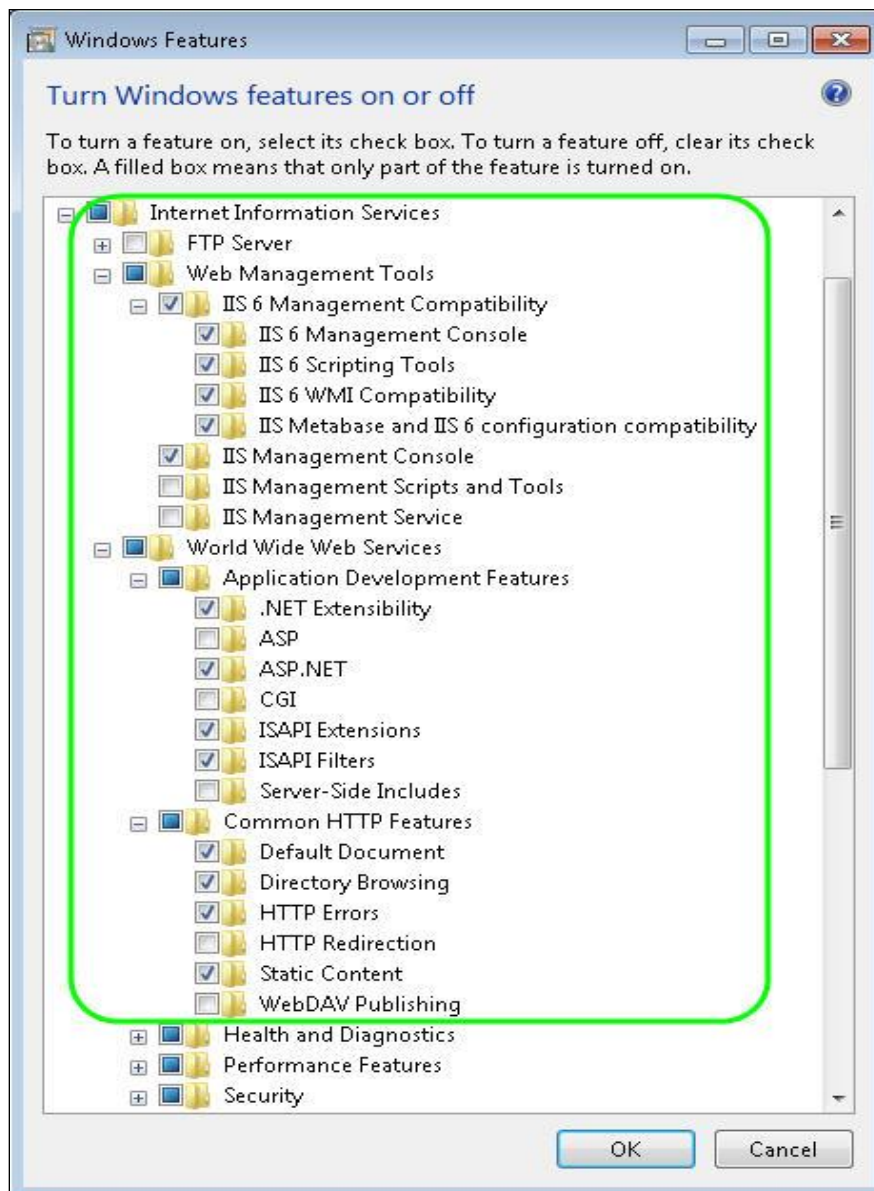


Refer to the CIP Reference Manual for detail information on this configuration.

## Appendix

### *Installing Internet Information Services (IIS)*

Below are the required components for IIS to work with CIP-E/CIP. 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 36: IIS Requirements (Example from Windows 7)**

## ***Locating Microsoft .NET Framework 4.0***

Use the following link for web installer: <http://www.microsoft.com/en-us/download/details.aspx?id=17851>

Or

Use the following link for Standalone Installer: <http://www.microsoft.com/en-us/download/details.aspx?id=17718>

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 4.0 Installer**”

Download and install the executable.

## 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**.

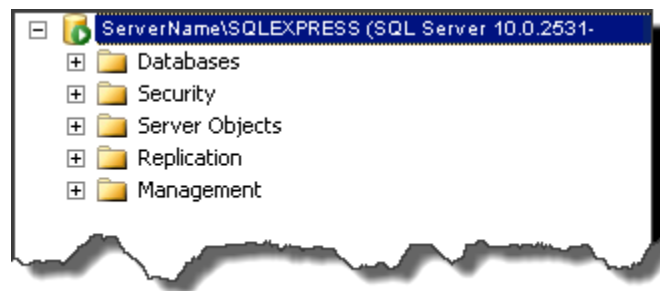
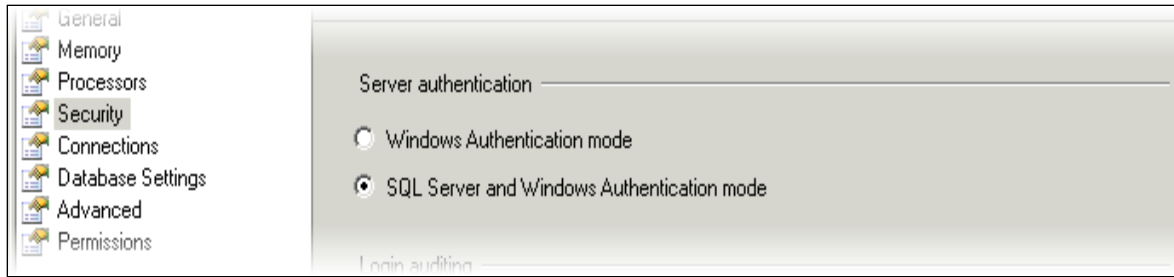


Figure 37: Open SQL Instance Properties

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



**Figure 38: 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.

### ***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.

## 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>-->
```

## CIP User Guide

The CIP User Guide can be accessed directly from the CIP web interface after installation.

## Troubleshooting Installation or Upgrade Problems

These troubleshooting instructions will guide you to debug typical installation or upgrade problems related to the CIP installation. Please contact [techsupport@ema-eda.com](mailto:techsupport@ema-eda.com) if you are still having problems or have any questions.

### Server Error in '/CIP-E' Application

You open CIP web site and receive the following error.

#### Server Error in '/CIP-E' Application.

---

##### *Runtime Error*

**Description:** An application error occurred on the server. The current custom error settings for this application prevent the details of the application error from being viewed remotely (for security reasons). It could, however, be viewed by browsers running on the local server machine.

**Details:** To enable the details of this specific error message to be viewable on remote machines, please create a <customErrors> tag within a "web.config" configuration file located in the root directory of the current web application. This <customErrors> tag should then have its "mode" attribute set to "Off".

```
<!-- Web.Config Configuration File -->

<configuration>
  <system.web>
    <customErrors mode="off"/>
  </system.web>
</configuration>
```

**Notes:** The current error page you are seeing can be replaced by a custom error page by modifying the "defaultRedirect" attribute of the application's <customErrors> configuration tag to point to a custom error page URL.

```
<!-- Web.Config Configuration File -->

<configuration>
  <system.web>
    <customErrors mode="RemoteOnly" defaultRedirect="mycustompage.htm"/>
  </system.web>
</configuration>
```

If you are getting this Runtime Error, this may be due to one of the following problems on the Web Server:

- CIP Web application may be configured to use an incorrect App Pool. To verify that the correct App Pool is used, follow steps in the section for [Verify CIP App Pool](#).
- ODBC Data Source on the web server may be lost. To verify the ODBC data source, follow steps in the section on [Validating the CIP ODBC Data Source](#).

### Sorry, an error occurred while processing your request

If you are getting an error, "Sorry, an error occurred while processing your request", this may be due to the CIP web application is not able to get to the database.

Causes for this can be due to one of the following reasons:

- CIP\_E database has been taken offline
- Password for CIP\_E\_Internal\_User has been changed but not updated in the web.config file.
- The CIP\_E database has been restored from a backup but the CIP\_E\_Internal\_User and CIP\_E\_CIS\_User have not been restored after the database has been restored.
- ODBC Data Source on the web server may be corrupted. To verify the ODBC data source, follow steps in the section on [Validating the CIP ODBC Data Source](#).

### Service Unavailable

If you are getting a “Service Unavailable” error after initial installation of CIP, you should [verify that Microsoft .NET 4.0 Framework](#) has been installed.

---

#### Service Unavailable

---

HTTP Error 503. The service is unavailable.

If Microsoft .NET 4.0 Framework has not been installed, you will need to install it and restart the server.

## HTTP Error 403.14 Forbidden – Re-register Framework

If you are getting “HTTP Error 403.14 Forbidden”, you may need re-register .NET 4.0, and then restart IIS. If .NET 4.0 was installed before installing IIS, it may not have gotten registered correctly.

To re-register .NET 4.0, open command prompt as an Administrator. Navigate to the following folder and type `aspnet_regiis.exe -ir`.

```
C:\windows\Microsoft.NET\Framework64\v4.0.30319> aspnet_regiis.exe -ir
```

Server Error in Application "DEFAULT WEB SITE/CIP-E"

Internet Information Services 7.5

**Error Summary**

**HTTP Error 403.14 - Forbidden**  
The Web server is configured to not list the contents of this directory.

**Detailed Error Information**

|              |                        |               |                            |
|--------------|------------------------|---------------|----------------------------|
| Module       | DirectoryListingModule | Requested URL | http://localhost:80/CIP-E/ |
| Notification | ExecuteRequestHandler  | Physical Path | C:\EMA\CIP-E\CIP\          |
| Handler      | StaticFile             | Logon Method  | Anonymous                  |
| Error Code   | 0x00000000             | Logon User    | Anonymous                  |

**Most likely causes:**

- A default document is not configured for the requested URL, and directory browsing is not enabled on the server.

**Things you can try:**

- If you do not want to enable directory browsing, ensure that a default document is configured and that the file exists.
- Enable directory browsing using IIS Manager.
  - Open IIS Manager.
  - In the Features view, double-click Directory Browsing.
  - On the Directory Browsing page, in the Actions pane, click Enable.
- Verify that the configuration/system.webServer/directoryBrowseEnabled attribute is set to true in the site or application configuration file.

**Links and More Information**

This error occurs when a document is not specified in the URL, no default document is specified for the Web site or application, and directory listing is not enabled for the Web site or application. This setting may be disabled on purpose to secure the contents of the server.

[View more information.](#)