SUPPLEMENT

OrCAD CIP Database Importing for e-Learning

17.4

EMA Education Services

Classroom, Live Online, and eLearning

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Introduction

This supplemental document is designed to accompany EMA Design Automation's **eLearning course for OrCAD CIP** (Component Information Portal) and to assist with setup and importing of the **CIP Starter Database**. The CIP Starter Database must be in place in order to align with the lab steps followed during e-Learning lessons.

Prior to beginning the e-Learning course you will need to make sure that OrCAD CIP is installed, and that the Starter Database CSV file has been imported into your CIP. In earlier versions of CIP, the Starter Database was presented as an option to include during the formal installation process. With 17.4, however, the user must run the CIP importer separately to import the Starter parts. The next steps are a guide to help you locate and import the Starter Database parts.

Locating the CSV Starter Database File

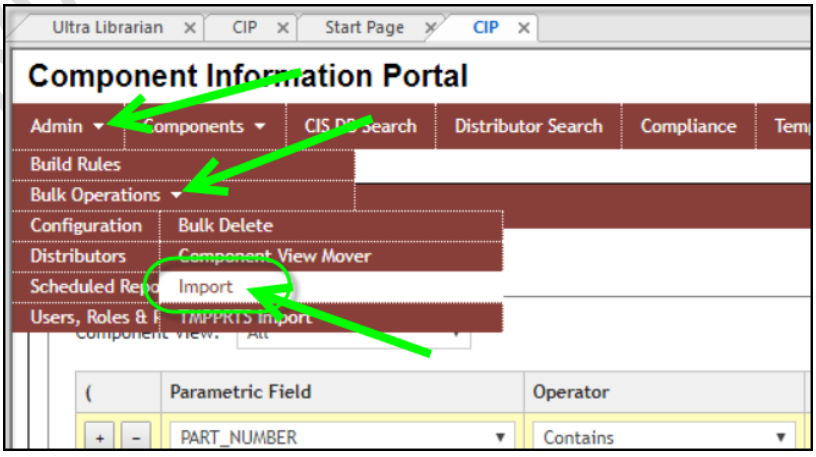
The csv file is named **`Starter_Lib.csv`** and comes with the Client installation of CIP and gets located at the following path:

`C:\Cadence\SPB_17.4\tools\capture\tclscripts\capAutoLoad\CIPClient\CIP\StarterLibraryParts\`**`Starter_Lib.csv`**

Importing the Starter Database

The Import feature loads parts and properties from a Comma Separated Value (CSV) file to your CIP/CIS database. This feature is available when you open CIP from within Capture.

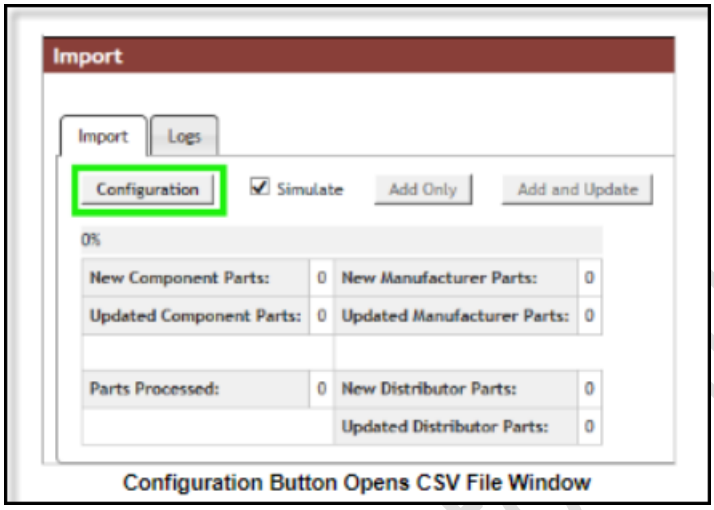
The Import feature may be accessed from the **Admin > Bulk Operations > Import** menu.



1. After you launch CIP and login, select the **Admin > Bulk Operations > Import** menu

   NOTE: You will need administrative privileges in order to perform the import.

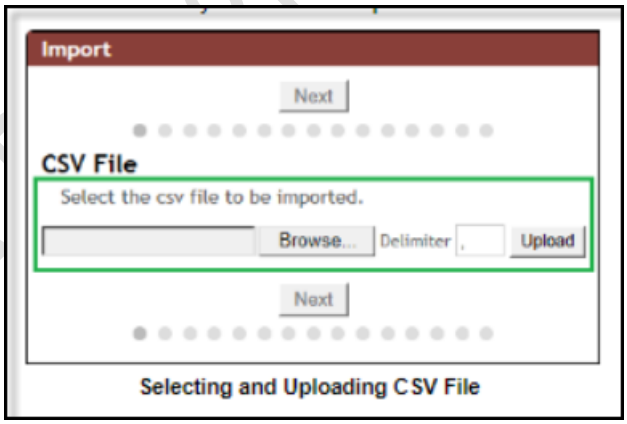
2. Click the **Configuration** button.



Configuration Button Opens CSV File Window

3. Click the **Choose File** or **Browse** button to locate and select the **`Starter_Lib.csv`** file.

   The Starter Database CSV file is located at:
   `C:\Cadence\SPB_17.4\tools\capture\tclscripts\capAutoLoad\CIPClient\CIP\StarterLibraryParts\Starter_Lib.csv`



Selecting and Uploading CSV File

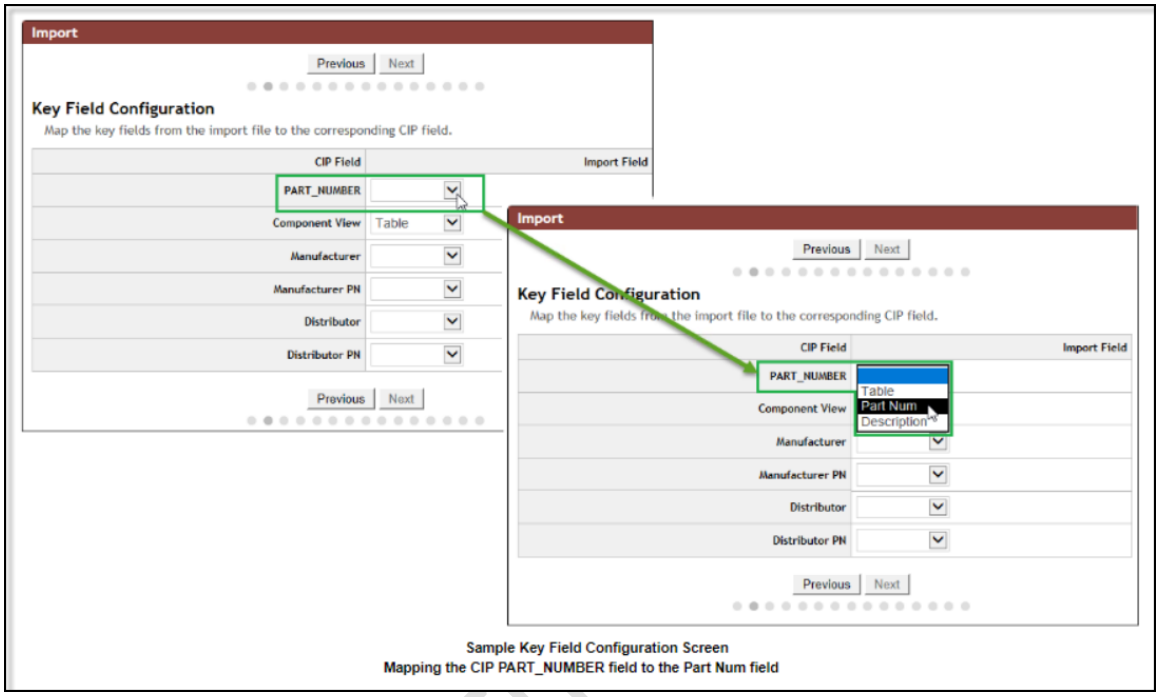
4. Click the **Upload** button. When the process is complete the word “Success” displays to the right of the Upload button.

Key Field Configuration

1. Click the **Next** button to open the **Key Field Configuration** screen. This screen shows the CIP fields and the .csv fields of the file being uploaded side-by-side to help you map key fields. The Starter_Lib.csv file is developed so that each field mapping is

one-to-one, meaning you will not have to search for appropriate fields names to map from the csv file.

2. Click the selection arrow of each Import Field to map CIP fields to the field of the .CSV file. For example, the image below shows the CIP Field PART_NUMBER being mapped to the 'Part Num' field.



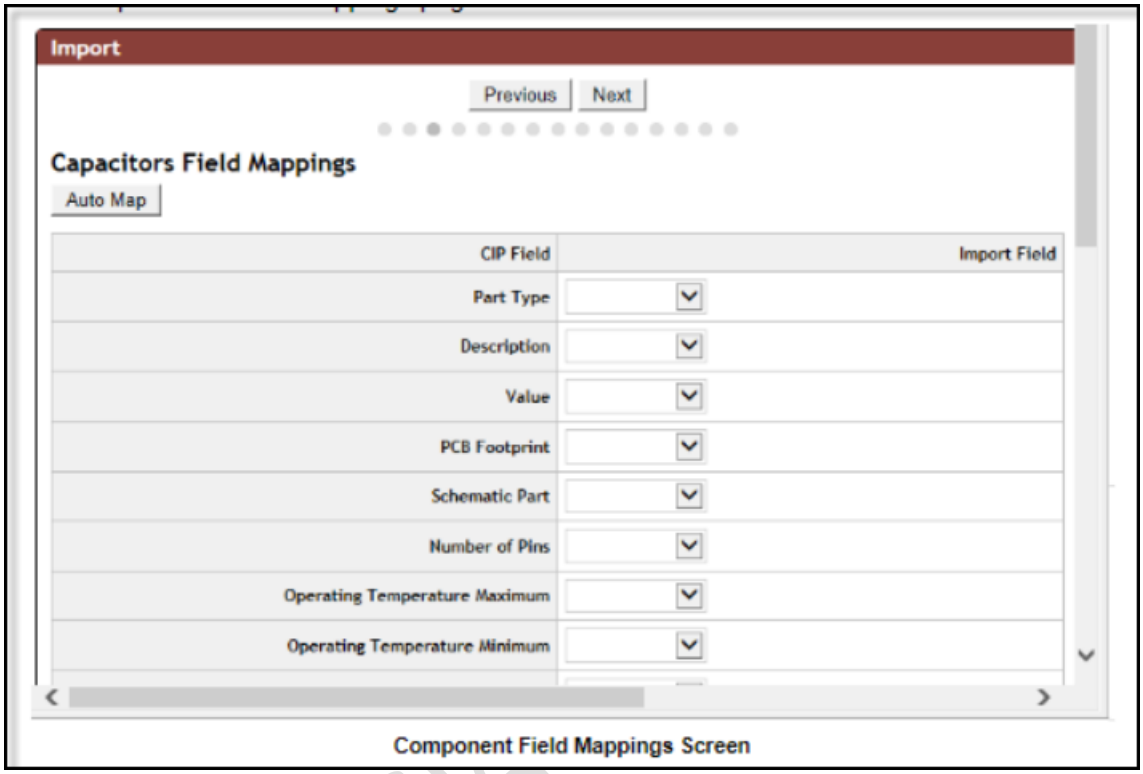
Sample Key Field Configuration Screen
Mapping the CIP PART_NUMBER field to the Part Num field

NOTE: The Starter_Lib.CSV file can be auto-mapped since all the fields are a one-to-one match. The **Auto Map** feature will be discussed later in this document.

- **Part Number** – This is the company part number field. It is a required field.
- **Component View** – This is the field in the CSV file that identifies which table the part will be imported into It is a required field.
- **Manufacturer** – This is the field in the CSV that identifies the name of the manufacturer. This field is optional, but if chosen, the fields "Manufacturer" and "Manufacturer PN" must be mapped.
- **Manufacturer PN** - This is the field in the CSV that identifies the name of the manufacturer. This field is optional, but if chosen, the fields "Manufacturer" and "Manufacturer PN" must be mapped.
- **Distributor** – This is the field in the CSV that identifies the name of the distributor. It is optional, but if chosen, the fields "Distributor" and "Distributor PN" must be mapped.
- **Distributor PN** - This is the field in the CSV that identifies the name of the distributor. It is optional, but if chosen, the fields "Distributor" and "Distributor PN" must be mapped.

Capacitor Field Mappings

1. Once you have the Key Fields configured, click the **Next** button to proceed to the Capacitors Fields Mappings page.



Component Field Mappings Screen

If you were using a CSV file that had field names not exactly matching the CIP field headers you would need to use the drop down arrow for each CIP Field to find the equivalent CSV named field.

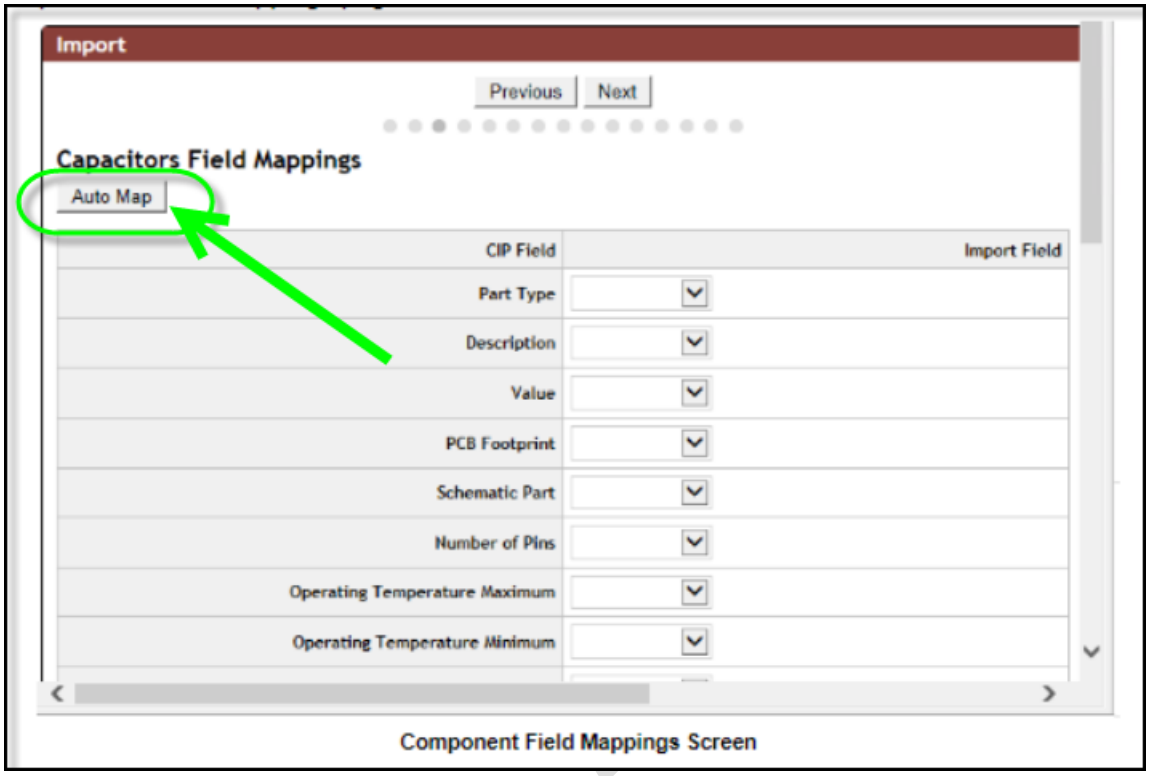
For this exercise, however, you will not need to do that since the CSV file being used has all matching field names. Proceed to the next section where you will use the Auto Map operation.

Using Auto Map

NOTE: A separate "Field Mapping" page is provided for each component view (Capacitors, Diodes, Resistors, etc.). To successfully import parts into a component view you need to map one or more fields in the Field Mappings page for that component view. The series of gray dots below the Previous and Next buttons indicate the current or active page as you progress through the pages.

Optionally, clicking the Auto Map button will auto-fill the field names that are an exact match.

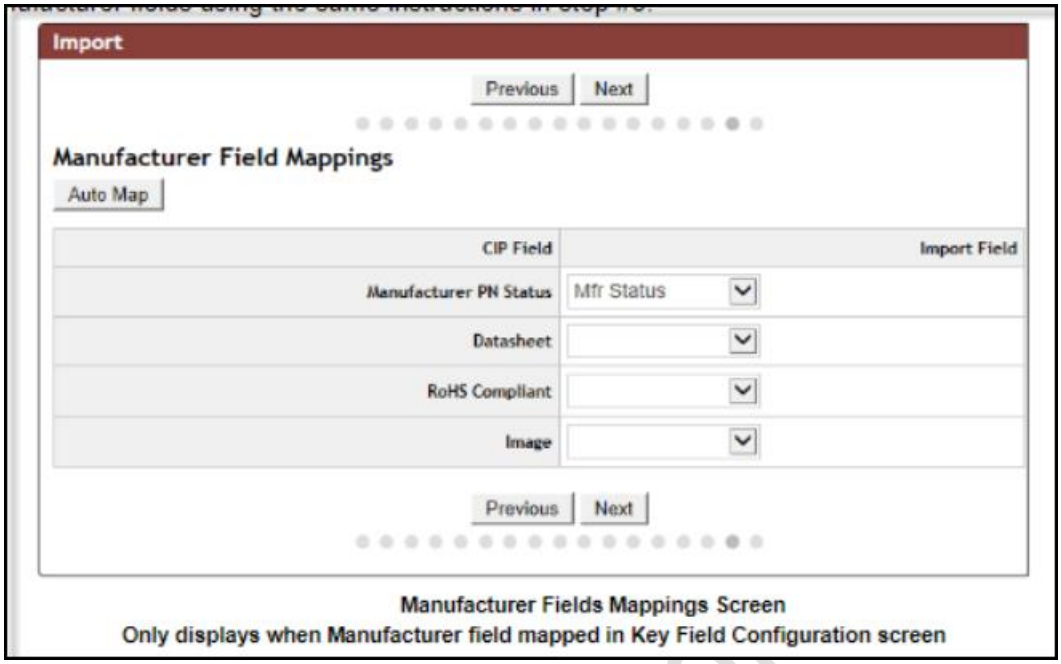
1. Click on the **Auto Map** button in the Capacitors Field Mappings page.



Component Field Mappings Screen

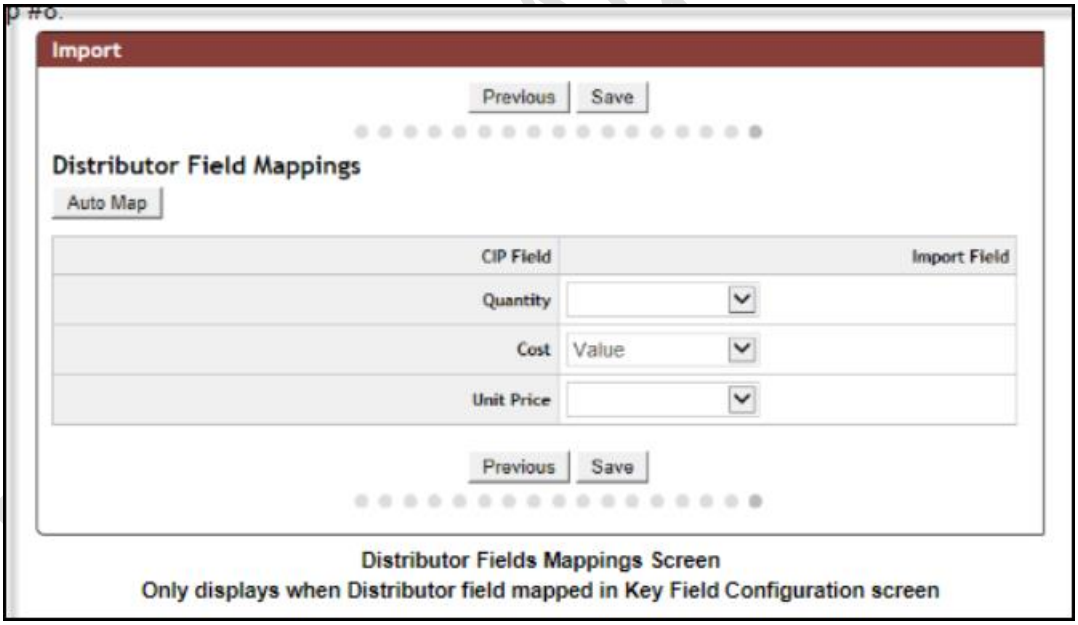
This will automatically map CIP field names that are an exact match to the fields of your uploaded CSV file. Be sure to verify all view configurations each time you go through the process. Changes to the import file may impact parts imported. Review mapped fields and edit as appropriate.

2. Continue through all configured component views. If the Manufacturer Name and Manufacturer PN are configured from the above steps, then the **Manufacturer Field Mappings** screen will open. Map the manufacturer fields using the same steps as previously indicated.



Manufacturer Fields Mappings Screen
Only displays when Manufacturer field mapped in Key Field Configuration screen

3. Click **Next** to proceed to the Distributor Field Mappings screen. Map the distributor fields using the same instructions provided earlier.

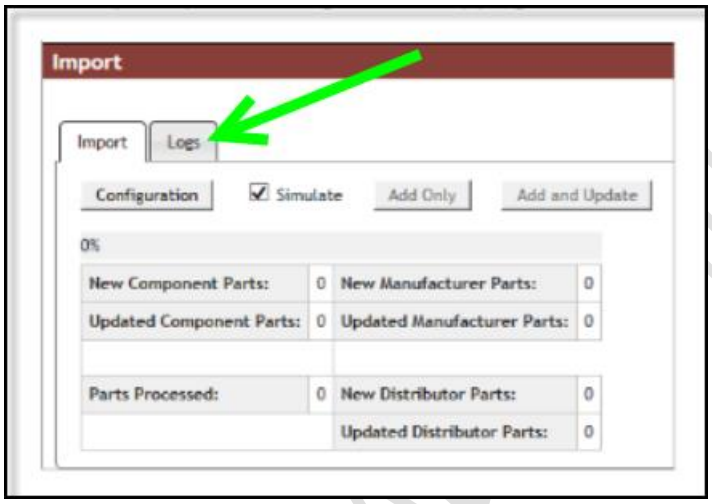


Distributor Fields Mappings Screen
Only displays when Distributor field mapped in Key Field Configuration screen

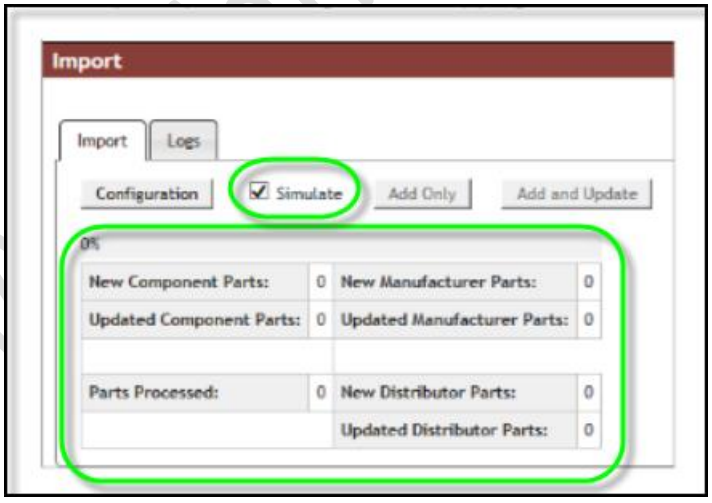
4. Click the **Save** button that is included on the last configuration mapping page. A summary screen displays that shows the number of component parts processed, updated, and imported. Because you have only completed configuration mappings with the Simulate button checked, each section of the summary screen is zero.

Checking the Log File

Typically, you would run a Simulation to see if there are any errors presented and fix them before adding any parts to the database. You can check on what any errors may be by selecting the **Logs** tab. The most recent log file will be at the top of the list. You can open this text file and review the items. At the bottom of the log file is a summary that shows the number of errors, if any.



Adding the Import Data



1. Uncheck the **Simulate** button and then choose the "Add Only" button to import the parts into the database. Once the import is complete you may review the log file. The Starter Database of parts should appear in the CIP database.