

OrCAD Component Information Portal User Guide

Product Version 25.1.22

For Cadence/OrCAD 25.1, 24.1, 23.1

September 2025

Table of Contents

1 Introduction	1
2 Getting Started with CIP	1
3 CIP Administration	3
3.1 Build Rules	4
3.1.1 Rule Basics	4
3.1.2 Block Types	5
3.1.2.1 Value Blocks.....	6
3.1.2.2 If Blocks.....	6
3.1.2.3 Switch Blocks.....	8
3.1.3 Editing a Rule	10
3.1.4 Using a Rule	12
3.2 Bulk Operations	13
3.2.1 Bulk Delete	14
3.2.1.1 Configure for Deletion.....	15
3.2.1.2 Delete Parts.....	18
3.2.2 Bulk Rename	25
3.2.2.1 Configure for Rename.....	26
3.2.2.2 Rename Parts.....	29
3.2.3 Component View Mover	33
3.2.4 Import	35
3.2.4.1 Configure for Import.....	36
3.2.4.2 Add Import Data.....	40
3.2.5 TMPPTS Import	46
3.2.6 Import Starter Library	49
3.2.7 Update Datasheet Paths	52
3.3 Configuration	57
3.3.1 Component Views	59
3.3.2 Customizable Fields	62
3.3.2.1 Customize Component Fields.....	66
3.3.2.2 Customize Component Manufacturer Part Fields.....	70
3.3.2.3 Customize Manufacturer Part Fields.....	70
3.3.2.4 Customize Distributor Part Fields.....	71
3.3.2.5 Customize BOMs Fields.....	72
3.3.2.6 Customize BOM Item Fields.....	73
3.3.2.7 Customize Reuse Modules Fields.....	74

3.3.2.8 Configure Transfer Fields to Design.....	75
3.3.3 Reorder View Fields	76
3.3.4 BOM/Design Options	82
3.3.5 Email Notifications	84
3.3.5.1 Email Notification for Individual Users.....	86
3.3.6 Incremental Part Number	87
3.3.7 Manufacturer Part Status Indicator	90
3.3.8 System Capture Configuration	92
3.3.8.1 PTF Generation Report Format.....	96
3.3.8.2 Indexer Command Window	98
3.3.9 Other Configuration	100
3.3.9.1 New Part Default.....	101
3.3.9.2 Import/Export Separator.....	101
3.3.9.3 Schematic Part/PCB Footprint Delimiter.....	102
3.3.9.4 CIP Base URL.....	103
3.3.9.5 Enable Link on Component Pages.....	104
3.3.9.6 Reuse Module Directory.....	106
3.3.9.7 Show CIPClient Download Link.....	107
3.3.9.8 Temp Part Prefix.....	109
3.3.9.9 Enable/Disable Full Text Search.....	109
3.3.9.10 Enable Download of Ultra Librarian Models	110
3.3.9.11 Enable/Disable Virtual Librarian Service (VLS).....	113
3.3.9.12 Show Online Users.....	114
3.4 Distributors Administration	116
3.4.1 Distributor Sync	116
3.4.2 Configure Distributors	119
3.5 Scheduled Reports	120
3.6 Users, Roles & Permissions Administration	125
3.6.1 Manage User Accounts	126
3.6.1.1 Creating User Accounts.....	126
3.6.1.2 Editing an Existing Account.....	128
3.6.1.3 Deleting an Existing Account.....	128
3.6.1.4 Check Licenses In Use.....	129
3.6.2 Manage Roles	129
3.6.2.1 Default Roles.....	129
3.6.2.2 User Role Permissions.....	130
3.6.2.3 Administrative Role Permissions.....	133
3.6.2.4 Creating Roles.....	134
3.6.2.5 Modifying Roles.....	135
3.6.2.6 Deleting Roles.....	136
3.6.3 Field Permissions	137
3.6.4 Hide Rule	139

4 Using CIP	141
4.1 Logging into CIP	141
4.2 Changing your password	142
4.3 Components	144
4.3.1 Creating/Modifying Parts	145
4.3.1.1 New Part Creation.....	146
4.3.1.2 Creating New Part with Next Available TMP Part Number.....	147
4.3.1.3 Creating New Part with Next Auto-Increment Part Number.....	149
4.3.1.4 Modifying an Existing Part.....	150
4.3.1.5 Moving a Part to a Different View	153
4.3.1.6 Copying an Existing Part.....	155
4.3.1.7 Deleting a Part.....	156
4.3.1.8 Adding Mechanical Parts to a Component.....	157
4.3.1.9 Adding a Manufacturer Part Number.....	161
4.3.1.10 Modifying an Existing Manufacturer Part Number.....	162
4.3.1.11 Deleting a Manufacturer Part Number.....	164
4.3.1.12 Modifying Per Part Manufacturer Part Data.....	165
4.3.1.13 Add, Modify and Delete Distributor Part.....	165
4.3.1.14 Add ECAD Model from Ultra Librarian.....	168
4.3.1.15 Change Order of Manufacturer Parts.....	170
4.3.2 Comparing a Schematic Part and PCB Footprint	171
4.3.3 Launching Library Builder to Create Schematic Part and PCB Footprint	173
4.3.4 Previewing and Placing a Schematic Part	174
4.3.5 Previewing a PCB Footprint	177
4.3.6 Open CIP Part from a Schematic Page	178
4.3.7 Checking Availability of a Manufacturer Part	179
4.3.8 Part History	179
4.3.9 Where Used	182
4.4 Creating Reuse Modules	184
4.5 CIS DB Search	187
4.5.1 Keyword Search	188
4.5.2 Defining Search Criteria	189
4.5.3 Including Additional Fields in Search Results	192
4.5.4 Viewing Last Search	194
4.5.5 Smart Value Search	194
4.5.6 Exporting Part Data to Excel	195

4.5.7 Exporting Search Results	196
4.5.8 Using the History Search	197
4.5.9 Saving Search Criteria	199
4.5.10 Using Part Type Search	202
4.6 Distributor Search	203
4.6.1 Searching for a Distributor Part	203
4.6.1.1 By Manufacturer Part Number.....	204
4.6.1.2 By Keyword.....	204
4.6.1.3 Search Results and Part Detail.....	205
4.6.1.4 Warnings and Errors.....	207
4.6.2 Creating a New TMP Part and Distributor Part	208
4.6.3 Adding a Distributor Part to an Existing TMP or Formal Part	215
4.7 Ultra Librarian ECAD Model Download	217
4.8 Temp. Parts	220
4.9 Compliance	226
4.9.1 Enable Compliance Module	227
4.9.2 Search	230
4.9.3 Sync	236
4.9.4 Summary	236
4.10 BOMs	238
4.10.1 BOM View/Import	239
4.10.1.1 View a BOM.....	240
4.10.1.2 Create a New BOM.....	244
4.10.1.3 Create/Copy to a New Revision.....	245
4.10.1.4 Import Parts into a BOM.....	246
4.10.1.5 Delete a BOM Revision/Variant.....	251
4.10.2 BOM Export	251
4.10.2.1 Select and Export Existing BOM.....	252
4.10.2.2 Create a Capture CIS BOM.....	255
4.10.2.3 Upload and Export Parts List.....	256
4.10.2.4 Generate a Template for BOM Export.....	260
4.11 Virtual Librarian Service (VLS)	261
4.12 Design Parts Sync	265
4.12.1 Summary	266
4.12.2 Processing	272
4.12.3 Sync Parts on Design with CIP Database	273

4.12.4 Part Replacement	277
4.13 Sample New Part Process Using CIP	281
4.14 Help and Support	283
4.15 Technical Support	284
5 Appendix: Part Type and Description Standards.....	284
5.1 Part Type Standard	284
5.2 Description Standards	286
6 Appendix: Configuring the CIS .DBC File.....	287
7 Appendix: Warnings and Errors.....	292
7.1 BOM Import Errors	292
7.2 CIP Scheduler Service not running	294
7.3 Transaction or Execution Errors and Timeouts	297
8 Appendix: Tutorial for Importing CSV Parts.....	298
8.1 Module 1: Configuring and Mapping an Import File	299
8.2 Module 2: Importing Capacitors into CIP	301
8.3 Module 3: Adding Parts to CIP without Updating Existing Parts	305
8.4 Module 4: Updating Existing CIP Parts	309
8.5 Troubleshooting Import Files	313
9 Appendix: Sample CDS_SITE Setup for System Capture.....	316

1 Introduction

This CIP User Guide assists first time users of OrCAD® Component Information Portal (CIP) get started. The information presented also provides reference information such as user administration, rule administration and setting up and using email notifications.

Once CIP is installed, it provides an interface for entering, deleting or modifying parts without the need to access the master CIS database using native tools. CIP enables the general user to view data in the CIS database without using a CIS license. CIP also facilitates the conversion of temporary parts to formal parts. Persons in the administrative role can assign login and passwords to those who need to use CIP.

CIP is a web-based application that helps you manage components used in schematic designs.

The CIP User Guide is organized in three sections:

- [CIP Administration](#) – Explains how the Admin sets up:
 - Build rules for part type and description
 - Distributors configuration and synchronization
 - Configurations for fields and views, part number prefix, email notifications, pick lists, and data values
 - Bulk Operations
 - User accounts, roles and field permissions
- [Using CIP](#) – Explains how non-administrative users:
 - Manage their components by searching, adding, deleting, and modifying parts
 - Place parts
 - Create and place reuse modules
 - Import and export BOMs
- [Appendix](#) – Additional information on topics regarding usage of CIP

2 Getting Started with CIP

You can open CIP from a standard browser such as Chrome or Edge. You can access CIP from OrCAD Capture or System Capture (23.1 or 24.1) after you install the corresponding CIP Client plugin.

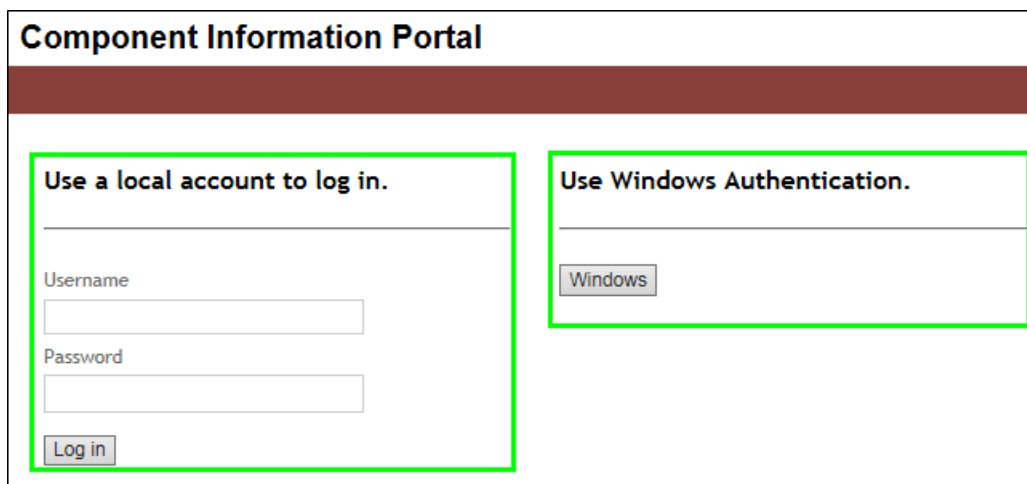
To start CIP, launch Chrome and enter the URL address: `http://<servername>/CIP-E` where the <servername> is the hostname of the CIP web application server.

Log into CIP with the username and password that your CIP Administrator assigned to you.

First time Admin login information is provided in the CIP Installation Guide. The first time login to the local account uses the Username “Admin”. User accounts are created and modified with the menu selection: **Admin > User, Roles & Permissions Administration**. We recommend that the Admin user change the Admin password after the first log in.

You can launch CIP from OrCAD Capture after you install the CIP Client plugin and configure the CIP URL in Capture.

The CIP Client Installation Guide includes additional information regarding the usage of CIP as well as information to help you set up your Capture.ini file.



Component Information Portal

Use a local account to log in.

Username

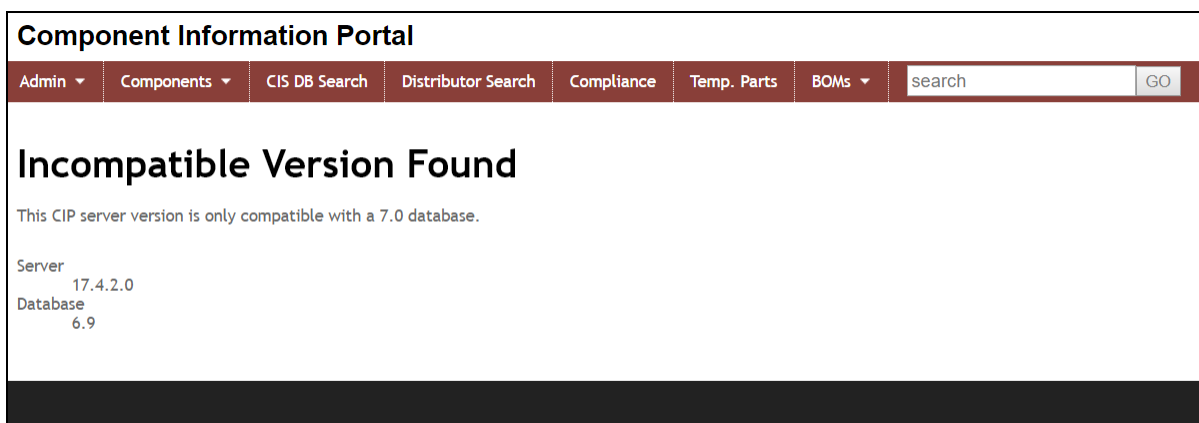
Password

Use Windows Authentication.

CIP Login Screen

If you are unable to see the CIP login screen, please contact your administrator or IT team who installed CIP.

If a version incompatibility screen displays when you navigate to the CIP URL, please contact your administrator or IT team who installed CIP. A partial upgrade of CIP may cause this error. An example of the screen is shown in the following figure.



Component Information Portal

Admin ▾ Components ▾ CIS DB Search Distributor Search Compliance Temp. Parts BOMs ▾ search GO

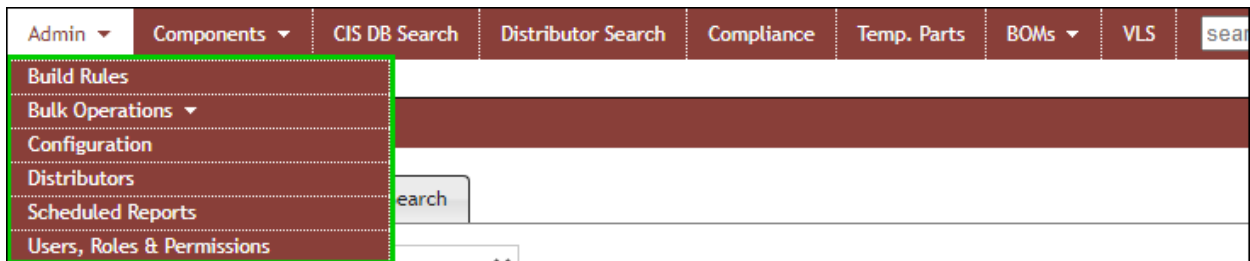
Incompatible Version Found

This CIP server version is only compatible with a 7.0 database.

Server 17.4.2.0
Database 6.9

3 CIP Administration

CIP Administrative features are available through the Admin menu. Users need to be granted [specific administrative role permissions](#) to configure options.



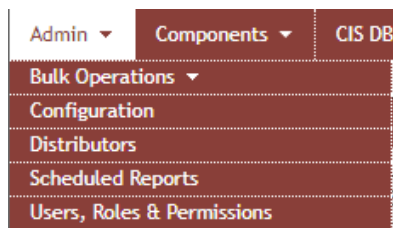
Admin Menu Items

The Admin menu enables access to the following admin options:

- **Build Rules** – Set-up [build rules](#) for auto-build of part type and description
- **Bulk Operations**
 - [Bulk Delete](#) parts in CIP from CSV
 - [Bulk Rename](#) parts in CIP from CSV
 - [Component View Mover](#) – Move parts between views within a table
 - [Import](#) parts from CSV to CIP
 - Tmpprts Import
- **Configuration**
 - [Component Views](#), [Customizable Fields](#), and [Field Transfer Options](#)
 - [Reorder and Group View Fields](#)
 - [BOM/Design Options](#) for BOM Format and Design Parts Sync
 - [Email Notifications](#)
 - [Color Indicator for Manufacturer Part Status](#)
 - [Separator selection](#) for Import and Export files
 - [Part Number Prefix](#)
 - CIP Link setup (for viewing of CIP parts from CIS)
 - [Configure Reuse Module Location](#)
 - [Ultra Librarian download options](#)
 - [Enable Virtual Librarian Service \(VLS\) menu item and Manufacturer PN request button](#)
 - [Configure fields to be transferred to design](#)
 - [System Capture Configuration](#)
 - [Show link to active users on the log in page](#)
- **Distributors** – [Distributors Administration](#)
 - Automatic sync of data from distributors

- Country settings and customer ID
- **Scheduled Reports** – Create regularly scheduled exports of any saved Global [Search](#)
- **Users, Roles, & Permissions** – [Users, Roles & Permission Administration](#)
 - [Add, remove and modify users](#)
 - Configure user specific notification
 - [Define new roles](#)
 - [Configure field permissions for each role](#)

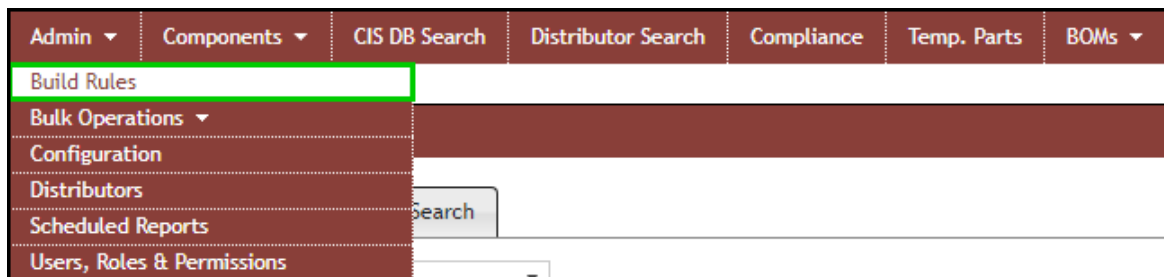
Users who have partial administrative permissions can view only the list of options that are specifically granted to them. Conversely, a user without granted permission to the build rules option is unable to view those options. The figure that follows, for example, shows a view of the menu items that are available to an admin user who lacks privileges to the build rules. Refer to User [Administrative Role Permissions](#) for more info.



**Admin Menu Items Without
Privilege to Build Rules**

3.1 Build Rules


The Rule Administration page is used to manage build rules. This includes editing predefined rules and deleting rules. Rules can be set for the description and part type fields only. The default rules are provided in the [Appendix](#) topics, [Part Type Standards](#) and [Description Standards](#). More samples of rules can be found later in this document.






Admin > Build Rules

3.1.1 Rule Basics

A rule is a set of instructions used to automatically create data using data that has been derived elsewhere. An example of this would be creating a description for a part based on other data, which has already been provided such as Part Type, Package Size, Value, Tolerance, etc. A person in the role of Librarian will find the Rule building capability useful when trying to pull existing data from various fields relating to a specific part, and “build” new data descriptions or part types using the Auto-Build function. This capability promotes a consistent and accurate method for adding data to the description or part type fields in the database.

A sample of the output of a rule is shown below, where the results have been populated into the Description field or the Part Type field by clicking the **Auto-Build**  button. The data in the Description field and the data in the Part Type field is a result of requesting specific information from parametric data that resides in the CIS database.

Note: CIP users with Edit Formal Parts permission may use the Auto-Build button. However, only CIP users with Set Rules administrative permission may define rules. The process for creating and using rules is explained in the following sections.

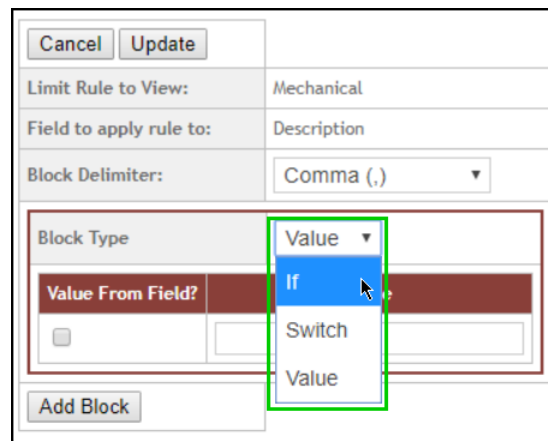
PART_NUMBER	EMA-00000124V22 	Part Type	CeramicSMD\0603 
Description	CAP, Ceramic, SMD, 0.01 uF, 10 %, 5C 	Value	0.01 uF
PCB Footprint	CAPC1608X87N	Schematic Part	CAPACITORS\CAP
Number of Pins	2	Operating Temperature Maximum	125 C
Operating Temperature Minimum	-55 C	Package Size	0603
Package Height	0.87 mm	Package Type	SMD

Sample Rule Results

Each Rule is defined for a Table which the rule applies to, and the Field name (Part Type or Description) that will be populated when the Auto-Build feature is used. Rules can only be applied to two parametric fields: Part Type and Description. Each rule has a set of one or more data blocks. Additionally, a Block Delimiter may be set to add a predefined character delimiter between each data block. The default Block Delimiter is “None,” which puts one field immediately after another. In general, the Block Delimiter should be set to one of the options provided. The Block Delimiter may be set to “None” for complex rules. If more than one of the same rule has been defined, the one that is lowest on the list will take effect.

3.1.2 Block Types

There are three **Block Types** that can be used to build each block of a rule. Up to 10 blocks can be applied per rule. You may change between block types at any time by selecting a new block type from the drop down list. The block types available are [If](#), [Switch](#), and [Value](#). Each behaves in a specific manner.



Block Types

3.1.2.1 Value Blocks

When the **Block Type** is set to *Value*, a simple value is added to the output either in the form of a constant or a value pulled directly from another CIS field. The "Value from Field" checkbox, when checked, allows the use of another CIS field as the value.

Value From Field?	Value
<input checked="" type="checkbox"/>	<input type="text"/>

Value Block Type

3.1.2.2 If Blocks

When the **Block Type** is set to "If," the value set is based on the conditions you select from the drop list menus as well as the text strings you type into the input boxes. For example, when you select "If" as the Block Type, you need to select values from the drop list menus to define the "Data Source" and "Condition." The menu options for Data Source are values from the CIP database.

You need to type in a text string to define the value for the "Value to compare to" condition. The "Value to compare to" box is the specified value used for testing the condition.

When you check the "Value from Field?" checkbox, the value you select in the "Field" column is used. When this checkbox is unchecked, you need to type a text string into the "Field" input box. The "Value from Field?" checkbox operates just like it does in Value Blocks switching between a "Constant" value and pulling a value from a specified field for use in the output if the condition is true.

Data Source	Condition	Value To Compare To	Value From Field?	Value
Dielectric Type	Contains	Ceramic	<input checked="" type="checkbox"/>	Dielectric Type

If Blocks

The result of the above example after **Auto-Build** is shown below, where, IF the Data Source "Dielectric Type" uses the Condition "Contains", and the "Value to compare to" is Ceramic, then the Description field would be populated with the Dielectric Type (Ceramic) after the Auto-Build button is selected.

PART_NUMBER	EMA-00000128V22	Part Type	EMA\Ceramic\SMD\0805
Description	Ceramic	Value	0.1 uF
PCB Footprint	CAPC2012X100N	Schematic Part	CAPACITORS\CAP
Number of Pins	2	Operating Temperature Maximum	125 C
Operating Temperature Minimum	-55 C	Package Size	0805
Package Height	1.00 mm	Package Type	SMD
Company Part Status		Dielectric Type	Ceramic

If Block Results

Conditions

The Data Source box is used to select the CIS field that the condition will test. The Condition box is the test condition to be used. Allowable conditions can be any one of the following (conditions are tested in a case insensitive fashion):

- **Equals** – Used to see if the field’s data matches the value provided.
- **Does Not Equal** – This is the negative case of “Equals” and is used to see if the field data does not match the value provided.
- **Contains** – This test is used to find a certain string within the field. For example: Our field has the value “Metallic Film” and our test is: Contains “film”. In this case the condition is true because “Metallic Film” does contain “film” and the constant or field value defined would be used for the output.
- **Does Not Contain** – This is the negative case of “Contains” and using the example from “Contains.” Our field has the value “Metallic Film” and our test is: Does Not Contain “film”. This time the condition is false because “Metallic Film” does in fact contain “film” so nothing will be added to the output from this Block.
- **Contains Data** – This is used to simply determine whether the specified field has any data at all.
- **Does Not Contain Data** – This is the negative case of “Contains Data” and is used to test whether the field is empty.
- **Starts With** – Used to see if the field’s data has the specified value at the beginning.
- **Does Not Start With** – This is the negative case of “Starts With” and is used to see if the field data does not have the specified value at the beginning.
- **Ends With** – Used to see if the field’s data has the specified value at the end.
- **Does Not End With** – This is the negative case of “Ends With” and is used to see if the field’s value does not have the specified value at the end.

The screenshot displays the 'Build Rule If Block' configuration window. At the top, there are 'Cancel' and 'Update' buttons. Below them are fields for 'Limit Rule to View' (set to 'Capacitors'), 'Field to apply rule to' (set to 'Description'), and 'Block Delimiter' (set to 'Comma Space (,)').

The main area contains three blocks, each with a 'Block Type' dropdown and a 'Data Source' field. The first block has 'Block Type' set to 'Value' and 'Value From Field?' checked with 'CAP' in the 'Value' field. The second block has 'Block Type' set to 'If' and a table with the following structure:

Data Source	Condition	Value To Compare To	Value From Field?	Value
Dielectric Type	Contains Data		<input checked="" type="checkbox"/>	Dielectric Type

A dropdown menu is open over the 'Condition' field of the second block, listing the following options: Equals, Does Not Equal, Contains (highlighted in blue), Does Not Contain, Contains Data, Does Not Contain Data, Starts With, Does Not Start With, Ends With, and Does Not End With.

The third block has 'Block Type' set to 'Switch' and 'Data Source' set to 'Package Type'. It includes 'Condition' and 'Value To Compare To' dropdowns, a 'Default Case' dropdown, and 'Add Case' and 'Remove Case' buttons.

Build Rule If Block

3.1.2.3 Switch Blocks

Switch Blocks are used to compare a single field's value sequentially against multiple conditions (Cases) to find a true condition (uses the first true condition). All conditions that can be used with If Blocks can be used with Switch Blocks and additionally there is the Default Case condition, which is used if all conditions up to that point are false. To add additional cases to the Switch Block click the **Add Case** button. A sample of a set of Switch Blocks is shown below.

Note: A Default Case is required at the end of each Switch Block.

Cancel Update

Limit Rule to View: Capacitors

Field to apply rule to: Description

Block Delimiter: Comma Space (,)

Block Type Value

Value From Field?	Value
<input type="checkbox"/>	CAP

Block Type Switch

Data Source Dielectric Type

Condition	Value To Compare To	Value From Field?	Value
Contains Data		<input checked="" type="checkbox"/>	Dielectric Type
Default Case		<input type="checkbox"/>	--

Add Case Remove Case

Block Type Switch

Data Source Package Type

Condition	Value To Compare To	Value From Field?	Value
Contains Data		<input checked="" type="checkbox"/>	Package Type
Default Case		<input type="checkbox"/>	--

Add Case Remove Case

Block Type Switch

Data Source Value

Condition	Value To Compare To	Value From Field?	Value
Contains Data		<input checked="" type="checkbox"/>	Value
Default Case		<input type="checkbox"/>	--

Add Case Remove Case

Sample Switch Blocks

The results for the sample shown are below, where the Description field was populated with the Output Values indicated in the Switch Block rule if the conditions were met as true.

PART_NUMBER		EMA-00000124V22	Part Type		EMA\Ceramic\SMD\0603
Description		CAP, Ceramic, SMD, 0.01 uF	Value		0.01 uF
PCB Footprint		CAPC1608X87N	Schematic Part		CAPACITORS\CAP
Number of Pins		2	Operating Temperature Maximum		125 C
Operating Temperature Minimum		-55 C	Package Size		0603
Package Height		0.87 mm	Package Type		SMD
Company Part Status			Dielectric Type		Ceramic

Switch Block Sample Results

If you have added too many cases you may remove a case by clicking the **Remove Case** button. With switch blocks you may mix and match conditions, values to compare to, and determine whether the output value is a constant or is pulled directly from a field. Click the **Add Block** button to add an additional block (of any type).

Note: There is a maximum limit of 10 blocks that a rule may possess. Removing a block if too many were added is easy; simply click the Remove Block button. The last block will be removed from the rule once clicked.

To save rules you have just constructed click the **Add** button. If you are editing a rule, click **Update** to save.

3.1.3 Editing a Rule

Each of the tables has a set of predefined rules for description and part type. You may remove any of these by selecting the **Clear** button. You will be required confirm to complete the deletion. To add a new rule that has been removed or edit an existing rule, click on the **Edit** button.

Edit	Clear	View	Field
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>	Capacitors	Description
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>	Capacitors	Part Type
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>	Connectors	Description
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>	Connectors	Part Type
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>	Crystals and Oscillators	Description
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>	Crystals and Oscillators	Part Type
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>	Diodes	Description
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>	Diodes	Part Type
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>	ICs	Description
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>	ICs	Part Type
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>	Inductors	Description
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>	Inductors	Part Type
<input type="button" value="Edit"/>		Mechanical	Description
<input type="button" value="Edit"/>		Mechanical	Part Type
<input type="button" value="Edit"/>		Misc	Description
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>	Misc	Part Type
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>	Relays	Description
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>	Relays	Part Type
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>	Resistors	Description
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>	Resistors	Part Type
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>	Switches	Description
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>	Switches	Part Type
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>	Transformers	Description
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>	Transformers	Part Type
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>	Transistors	Description
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>	Transistors	Part Type

Editing a Rule

Once the appropriate **Edit** button is clicked the existing rule corresponding to your selection becomes visible. The following figure shows an example of the ICs Part Type rule.

Cancel Update

Limit Rule to View: ICs

Field to apply rule to: Part Type

Block Delimiter: Backslash (\)

Block Type: Switch

Data Source: Device Type

Condition	Value To Compare To	Value From Field?	Value
Contains Data		<input checked="" type="checkbox"/>	Device Type
Default Case		<input type="checkbox"/>	--

Add Case Remove Case

Block Type: Switch

Data Source: Function

Condition	Value To Compare To	Value From Field?	Value
Contains Data		<input checked="" type="checkbox"/>	Function
Default Case		<input type="checkbox"/>	--

Add Case Remove Case

Add Block Remove Block

Updating a Rule


You may change the following:

- **Block Delimiter** – is used to separate individual blocks.
- **Block Type** – defines how each block is built. There are three [block types](#) available.

When you are finished editing the rule, click the **Update** button to complete the edit.

To cancel current editing changes made to a rule click the **Cancel** button. Clicking Cancel also closes the editing mode.

3.1.4 Using a Rule

After a rule is defined, you can apply the rule when editing part information of a component. Click the **Edit** button 

and then click the field **Auto-Build** button. 

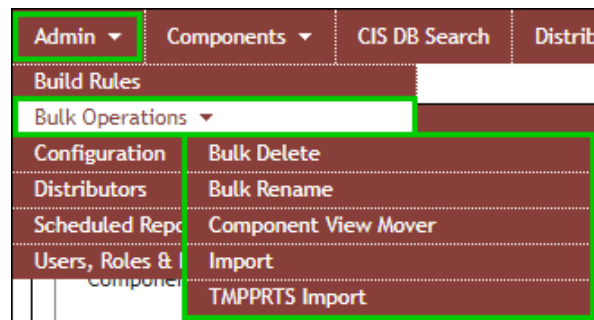
PART_NUMBER	EMA-00000124V22		
Description	CAP, Ceramic, SMD, 0.01 uF, 10 %, 50 V, --		
PART_NUMBER	EMA-00000124V22	Part Type	EMA\Ceramic\SMD\0603
Description	CAP, Ceramic, SMD, 0.01 uF, 10 %, 50 V, --	Value	0.01 uF
PCB Footprint	CAPC1608X87N	Schematic Part	CAPACITORS\CAP

Using Auto-Build

When you click **Auto-Build**, the field updates with the rule output. The image above shows the **Auto-Build** buttons for the Description and Part Type fields.

3.2 Bulk Operations

The **Admin > Bulk Operations** menu allows you to perform the operations shown below. Only users belonging to a user role with [Bulk Operations permission](#) will be allowed to access these features.



Admin > Bulk Operations

These options enable you to process the following routine bulk operations:

- [Bulk Delete](#) – Delete specified parts and/or their associated Manufacturer/Manufacturer PN and Distributor/Distributor PN pairs from a Comma Separated Value (CSV) file.
- [Bulk Rename](#) – Rename specified part numbers to new part numbers from a Comma Separated Value (CSV) file.
- [Component View Mover](#) – Move parts from one component view to another view that is associated to the same table.
- [Import](#) – Add parts or Update existing part properties from a Comma Separated Value (CSV) file.
- [TMPPTS Import](#) – Import TMP part (TMPPT) associations when migrating data from a non-CIP CIS database into your CIP/CIS database. This is required to migrate existing and converted TMP parts and will allow them to be properly associated in CIS Part Manager.

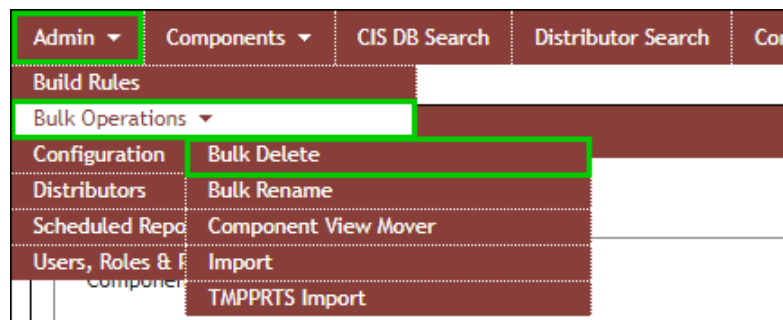
3.2.1 Bulk Delete

The Bulk Delete feature allows a list of parts to be deleted from a Comma Separated Value (CSV) file. In CIP, a company part number (component PN, PART_NUMBER) can have zero-to-many child Manufacturer/Manufacturer PN (MFR/MFR PN) associations. Each of the Manufacturer/Manufacturer PN pairs can have zero-to-many child Distributor/Distributor PN (Dist/Dist PN) associations. Bulk deletion allows you to map these fields to determine what will be deleted in bulk. Component PN is always required when using Bulk Delete.

You are not able to undo database deletions. It is recommended that you **back up your database prior to** performing the Bulk Delete, or at least confirm that regular backups are being created.

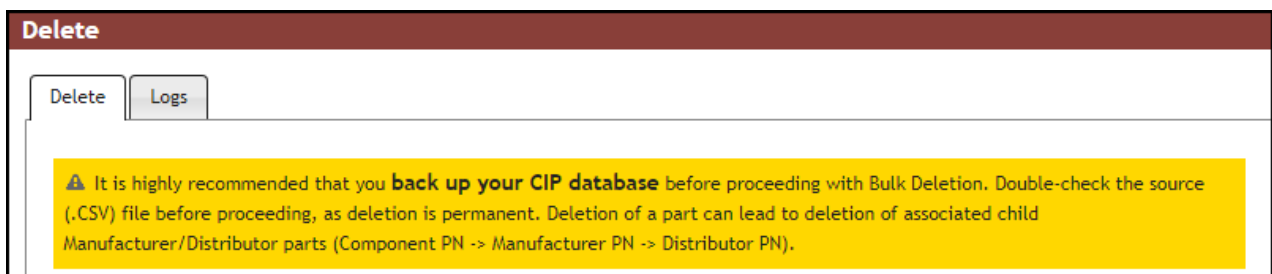
Note: Backing up your database may require assistance from your IT or your DBA (database administrator).

Bulk Delete can be accessed from **Admin > Bulk Operations > Bulk Delete**.



Admin > Bulk Operations > Bulk Delete

A warning shows immediately, informing you that deletion is permanent and advising you to **back up your database before** proceeding.



Bulk Delete Warning Message

[Configure for Deletion](#) explains how to:

- Select and upload your CSV file
- Map fields from CSV to CIP

[Delete Parts](#) explains how to:

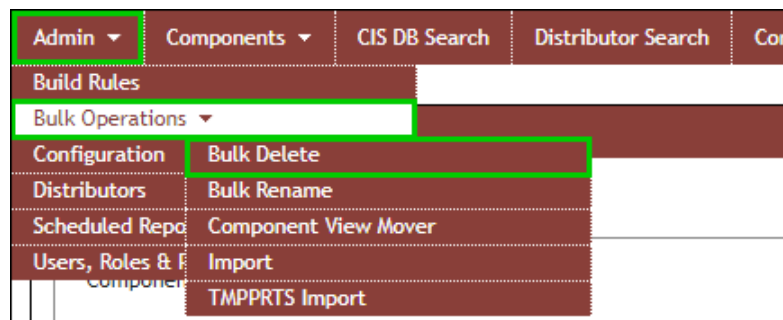
- Preview and simulate the impact of part deletion
- Delete parts from your CIS/CIP database

When using Bulk Delete, it's important to know how to properly specify what you are trying to delete.

- **Component PN** – Delete the specified component PN and ALL associated child MFR/MFR PN and Dist/Dist PN pairs.
- **Component PN and MFR/MFR PN** – Delete only the specified MFR/MFR PN associations from the component PN, along with ALL MFR/MFR PN child Dist/Dist PN associations.
- **Component PN, MFR/MFR PN, and Dist/Dist PN** – Delete only the specified Dist/Dist PN associations from the MFR/MFR PN.

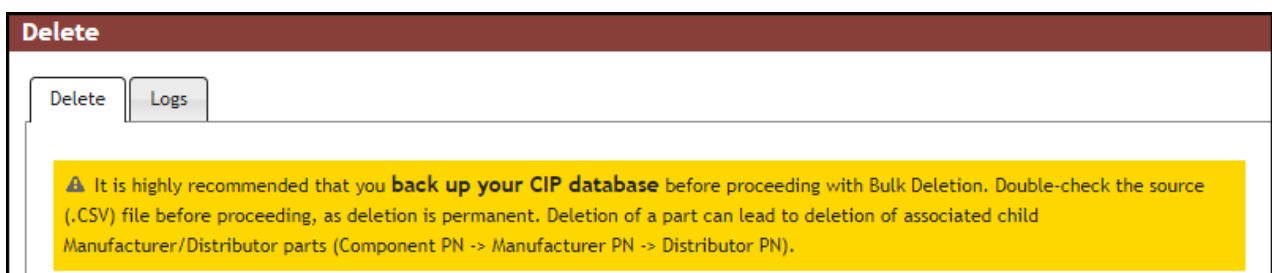
3.2.1.1 Configure for Deletion

The bulk delete process begins with the selection of the **Admin > Bulk Operations > Bulk Delete** menu. Each time you select the menu, you are required to verify part configuration before you can simulate and delete parts. This gives you the opportunity to review and update part mappings when fields have changed.



Admin > Bulk Operations > Bulk Delete

A warning shows immediately, informing you that deletion is permanent and advising you to **back up your database before** proceeding.



Bulk Delete Warning Message

To configure part data from CSV to CIP

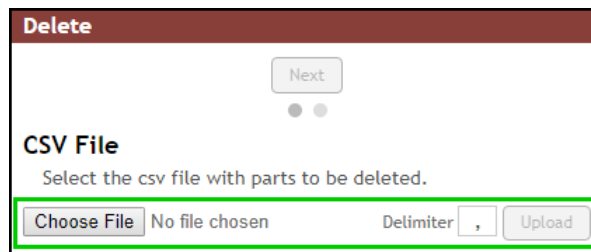
1. Select the **Admin > Bulk Operations > Bulk Delete** menu.
2. Click the **Configuration** button.

Note: If for some reason the bulk delete was interrupted by unforeseen activity (e.g. database restart) or the deletion stalls at the same state, the **Configuration** button will be disabled and will be enabled after 30 minutes.

3. Click the **Choose File** or **Browse** button (depending on your browser) to select the .CSV file you want to upload.

Note: The CSV file must be a valid CSV file without duplicate column headers. Extra columns of data without headings are considered duplicate headings.

4. Verify that the delimiter selected by default matches the delimiter of your file. Enter another delimiter if needed.
5. Click the **Upload** button. If successful, the **Key Field Configuration** screen will appear when the upload process is complete.



The screenshot shows a web interface titled "Delete". At the top, there is a "Next" button and two dots. Below that, the section is titled "CSV File" with the instruction "Select the csv file with parts to be deleted." At the bottom of this section, there is a "Choose File" button, the text "No file chosen", a "Delimiter" dropdown menu currently set to ",", and an "Upload" button. A green rectangular border highlights the "Choose File", "No file chosen", "Delimiter", and "Upload" elements.

Choose File, Delimiter, and Upload

6. The Key Field Configuration screen shows the CIP fields and the .CSV fields of your uploaded file side-by-side to help you map the key fields. Select desired Import Fields from your uploaded .CSV file to map them to the CIP fields.
 - **PART_NUMBER** – This is the company part number (component PN) field. This field is a required field that must be mapped.
 - **Manufacturer/Manufacturer PN** – These fields identify the **manufacturer name** and **manufacture part number**, only required when you want to delete specific Manufacturer/Manufacturer PN associations from a component PN. Once you specify Manufacturer, Manufacturer PN becomes required, and vice versa.
 - **Distributor/Distributor PN** – These fields identify the **distributor name** and **distributor part number**, only required when you want to delete specific Distributor/Distributor PN associations from a specific Manufacturer/Manufacturer PN. Once you specify Distributor, Distributor PN becomes required, and vice versa. In addition, Manufacturer/Manufacturer PN becomes required.
7. Click the **Save** button to complete configuration and take you back to the Delete tab's summary screen. You are now ready to [Delete Parts](#).

Delete

Previous Save

Key Field Configuration
Map the key fields from the CSV to the corresponding CIP field.

CIP Field	CSV Field
PART_NUMBER *	PN
Manufacturer	
Manufacturer PN	
Distributor	
Distributor PN	

Delete the specified component PN and ALL associated child MFR/MFR PN and Dist/Dist PN pairs.

Key Field Configuration
Map the key fields from the CSV to the corresponding CIP field.

CIP Field	CSV Field
PART_NUMBER *	PN
Manufacturer *	MFR
Manufacturer PN *	MFRPN
Distributor	
Distributor PN	

Delete only the specified MFR/MFR PN associations from the component PN, along with ALL MFR/MFR PN child Dist/Dist PN associations.

Key Field Configuration
Map the key fields from the CSV to the corresponding CIP field.

CIP Field	CSV Field
PART_NUMBER *	PN
Manufacturer *	MFR
Manufacturer PN *	MFRPN
Distributor *	Dist
Distributor PN *	DistPN

Delete only the specified Dist/Dist PN associations from the MFR/MFR PN.

Import File Format

Ensure your .CSV file satisfies the following formatting conventions:

- The import file must be in CSV format. Excel can be used to generate CSV files. After creating your file, you need to save the file as a .CSV file.
- The first line of the file must contain the field names for each column. If a title is in the first few lines of the file, you will need to remove those lines first. The field name for each column must be unique.
- There must be a column for the component PN (PART_NUMBER). Parts without a part number will not be deleted and will be considered Not Found. Manufacturer, Manufacturer PN, Distributor, and Distributor PN are optional columns, only required when you want to delete specific associations to a component PN.
- The CSV file must not have any duplicate column headers. This includes duplicate blank columns with blank headings.
- All rows within the CSV file should have the same number of columns.
- Characters in the CSV file must be UTF-8 encoded to avoiding [encoding warnings](#).

Warning about using Excel

Older versions of Excel, when used to create or edit .CSV, have caused problems with creating files that are not well-formed. When this occurs, you will either need to manually fix the file or use a later version of Excel.

3.2.1.2 Delete Parts

After you [configure your file for deletion](#), you can review the log file to preview a description of changes before you delete your parts from the CIP database. The preview functionality is enabled when the **Simulate** check box is selected.

The **Simulate** check box allows you to verify actions before they are performed on the database. Each time you click the **Delete** button a deletion or simulated deletion will occur and a log file will be created. The log file name corresponding to the **Simulate** option contains a date-time code and the **Simulate** text in the file name. The log file name without the **Simulate** option contains a date-time code and the **Delete** text in the file name. The Component PNs, Manufacturer/Manufacture PNs, and Distributor/Distributor PNs deleted (or to be deleted in the case of simulation) are recorded in the log file.

The summary section below the **Configuration** and **Delete** buttons shows details like Total Rows, Not Found, Parts Deleted, Mfr Parts Deleted, etc. Additional details can be found by reviewing the log files shown in the **Logs** tab.

1. Click the **Simulate** check box to enable simulation mode and click the **Delete** button to continue.

Delete

Delete Logs

⚠ It is highly recommended that you **back up your CIP database** before proceeding with Bulk Deletion. Double-check the source (.CSV) file before proceeding, as deletion is permanent. Deletion of a part can lead to deletion of associated child Manufacturer/Distributor parts (Component PN -> Manufacturer PN -> Distributor PN).

Configuration Simulate Delete


Total Rows:	0/0
Not Found:	0
Parts Deleted:	0
Mfr Parts Deleted:	0
Dis Parts Deleted:	0
Additional Manufacturer and Distributor parts deleted as a result of deleting a parent item	
Mfr Parts Deleted:	0
Dis Parts Deleted:	0
Start Time:	
End Time:	
Processing Time:	
Last Error:	


Simulate the Deletion

- 2. The summary will be updated until the simulation is completed. No deletions will occur during simulation.

100%	
Total Rows:	18/18
Not Found:	5
Parts Deleted:	13
Mfr Parts Deleted:	0
Dis Parts Deleted:	0
Additional Manufacturer and Distributor parts deleted as a result of deleting a parent item	
Mfr Parts Deleted:	17
Dis Parts Deleted:	12
Start Time:	2022-02-02T15:52:00.1072056-05:00
End Time:	2022-02-02T15:52:03.1907997-05:00
Processing Time:	00:00:03.0835941
Last Error:	

Deletion Summary

3. Click the **Logs** tab to view the list of completed logs. Simulation log files will have the **Simulate** text while deletion logs will have the **Delete** text. Click an individual log file name to view it. Click the  button to save the file. Notice that logs with the **Simulate** text in the file name also have the simulation message at the top and bottom of the log file, as shown below.

Delete		Logs	
Last 100 Logs		Log File Text	
20220202T155200_Simulate.txt 		<pre>***** This is a SIMULATION. No parts will be deleted during this run. ***** ***** Uncheck the Simulate checkbox and run again to apply changes. ***** DELETED EMA-00006524V22 EMA-00006524V22|Analog Devices,AD5300BRTZ-REEL EMA-00006524V22|Analog Devices,AD5300BRTZ-REEL|Digi-Key,AD5300BRTZ-REEL-ND EMA-00006524V22|Analog Devices,AD5300BRTZ-REEL7 EMA-00006524V22|Analog Devices,AD5300BRTZ-REEL7|Digi-Key,AD5300BRTZREEL7TR-ND DELETED EMA-00000124V22 NOTFOUND EMA-00000124V22</pre>	

Log File Selected, Displaying Simulation Message at the Top of Log

```

-----
Total Rows:      18
Not Found:       5
Parts:           13
Mfr Parts:       0
Dis Parts:       0
-----
Additional Manufacturer and Distributor parts deleted as a result of deleting a parent item
-----
Mfr Parts:       17
Dis Parts:       12
-----
Start Time:      2/2/2022 3:52:00 PM
End Time:        2/2/2022 3:52:03 PM
Processing Time: 00:00:03.0775914
-----
***** This was a SIMULATION. No parts were deleted during this run. *****
***** Uncheck the Simulate checkbox and run again to apply changes. *****

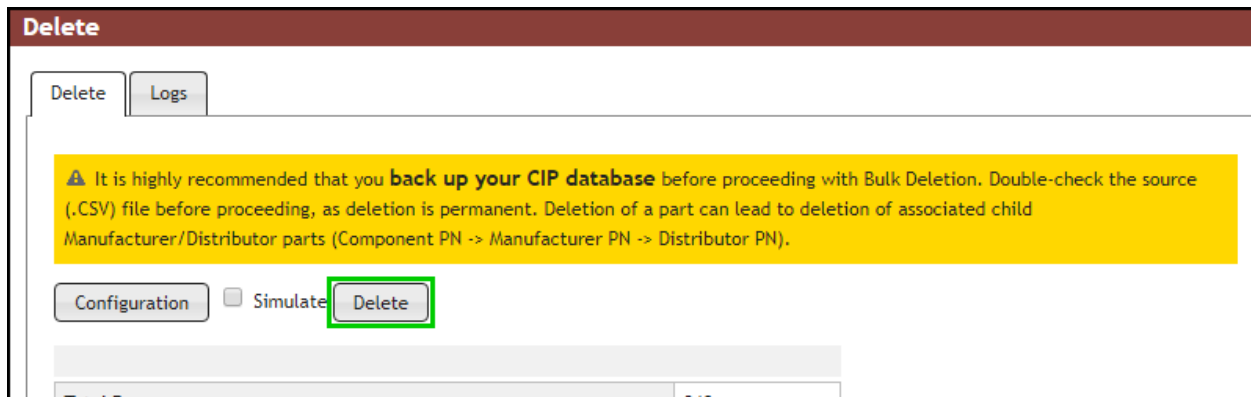
```

Summary and Simulation Message at the End of Log

- Review the log file and confirm the desired changes. When ready, click the **Delete** tab.

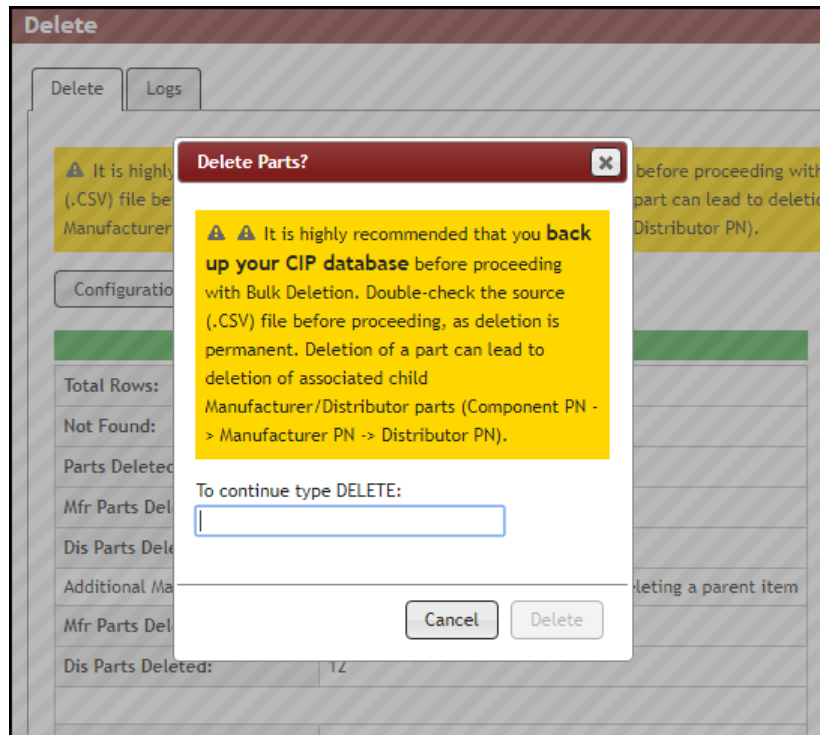
Keep in mind that once parts are deleted from the database, the only way to recover is to restore a previous database backup. Re-importing the deleted parts would bring the parts back, but all parametric field values would be lost unless you also saved a file to import those. Reviewing the log file simulation before deleting parts from your database helps minimize problems associated with accidental deletion.

- Uncheck the **Simulate** check box and click **Delete**.



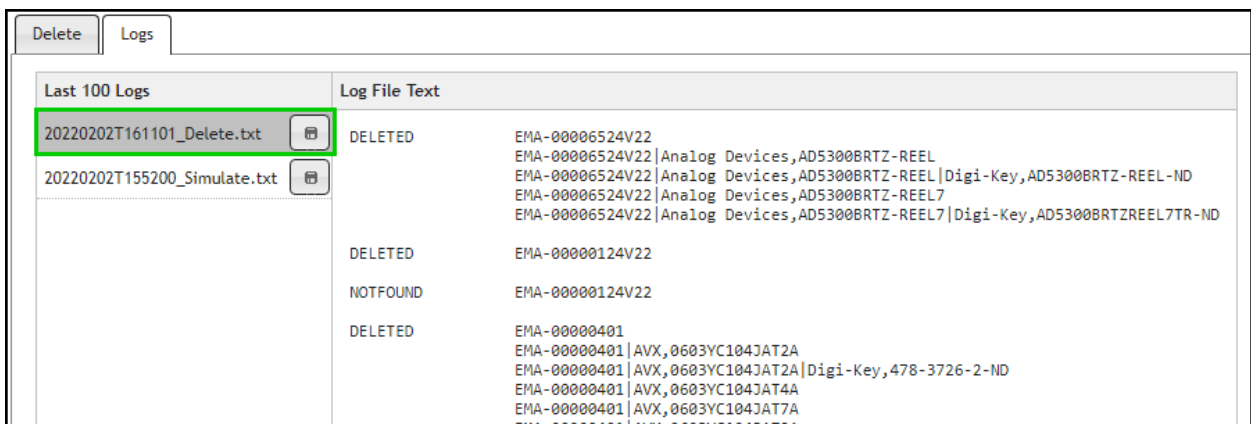
Uncheck Simulate and Proceed with Deletion

- A **Delete Parts?** confirmation window appears. Enter the word **DELETE** in ALL CAPS. The **Delete** button will be disabled until you do so. Click **Delete**. The summary will be updated until the deletion is completed.



Delete Parts Confirmation Pop-up Window

- Click the **Logs** tab to view the list of completed logs. Simulation log files will have the **Simulate** text in the file name, while deletion logs will have the **Delete** text. Click an individual log file name to view it. Click the Download button to save the file. Notice that logs with the **Delete** text in the file name do not have a simulation message at the top and bottom of the log file, as shown below.



Log File Selected

```

-----
Total Rows:      18
Not Found:       5
Parts:           13
Mfr Parts:       0
Dis Parts:       0
-----
Additional Manufacturer and Distributor parts deleted as a result of deleting a parent item
-----
Mfr Parts:       17
Dis Parts:       12
-----
Start Time:      2/2/2022 4:11:01 PM
End Time:        2/2/2022 4:11:07 PM
Processing Time: 00:00:05.6538402

```

Summary at the End of Log

Here's an example of what you can specify. The column header names in your CSV file are up to you, since you'll be mapping those when you [Configure for Deletion](#).

PN	MFR	MFR PN	Dist	Dist PN	Expected Behavior
PN001					Delete PN001 and ALL associated child Manufacturer/Manufacturer PN and Distributor/Distributor PN pairs.
PN002	MFR02	MFRPN11			Delete MFR02/MFRPN11 association from PN002, along with ALL child Distributor/Distributor PN associations on MFR02/MFRPN11.
PN003	MFR03	MFRPN25	Dist3	DistPN20	Delete Dist3/DistPN20 association from MFR03/MFRPN25.
PN003	MFR04	MFRPN39			Delete MFR04/MFRPN39 association from PN003, along with ALL child Distributor/Distributor PN associations on MFR04/MFRPN39.
PN004		MFRPN54			No action, MFR not found.
	MFR04	MFRPN54			No action, PN not found.
PN004	MFR04	MFRPN54		DistPN33	No action, Dist not found.

Below is the log file from the example above, showing how deletions are output in the log. A pipe (|) delimiter separates Component PN, MFR/MFR PN, and Dist/Dist PN. A comma (,) delimiter separates MFR and MFR PN pairs and Dist and Dist PN pairs. Each parent or child deletion is logged on a new line.

DELETED	PN001	
	PN001|MFR01,MFRPN01	
	PN001|MFR01,MFRPN01|Dist1,DistPN01	
	PN001|MFR01,MFRPN01|Dist3,DistPN13	
	PN001|MFR02,MFRPN02	
	PN001|MFR02,MFRPN02|Dist2,DistPN07	
DELETED	PN002|MFR02,MFRPN11	
DELETED	PN003|MFR03,MFRPN25|Dist3,DistPN20	
DELETED	PN003|MFR04,MFRPN39	
NOTFOUND	PN004|,MFRPN54	
NOTFOUND	|MFR04,MFRPN54	
NOTFOUND	PN004|MFR04,MFRPN54|,DistPN33	

Total Rows:	7	
Not Found:	3	
Parts:	1	
Mfr Parts:	2	
Dis Parts:	1	

Additional Manufacturer and Distributor parts deleted as a result of deleting a parent item		

Mfr Parts:	2	
Dis Parts:	3	

Start Time:	2/4/2022 10:39:33 AM	
End Time:	2/4/2022 10:39:34 AM	
Processing Time:	00:00:00.5816210	

Delete PN001 and ALL associated child Manufacturer/Manufacturer PN and Distributor/Distributor PN pairs.

Delete specific MFR/MFR PN from a PN, OR specific Dist/Dist PN from a MFR/MFR PN.

No action will occur when NOTFOUND is logged due to missing PN, missing MFR or MFR PN from a pair, or missing Dist or Dist PN from a pair.

Import File Format

Ensure your .CSV file satisfies the following formatting conventions:

- The import file must be in CSV format. Excel can be used to generate CSV files. After creating your file, you need to save the file as a .CSV file.
- The first line of the file must contain the field names for each column. If a title is in the first few lines of the file, you will need to remove those lines first. The field name for each column must be unique.
- There must be a column for the component PN (PART_NUMBER). Parts without a part number will not be deleted and will be considered Not Found. Manufacturer, Manufacturer PN, Distributor, and Distributor PN are optional columns, only required when you want to delete specific associations to a component PN.
- The CSV file must not have any duplicate column headers. This includes duplicate blank columns with blank headings.

- All rows within the CSV file should have the same number of columns.
- Characters in the CSV file must be UTF-8 encoded to avoiding [encoding warnings](#).

Warning about using Excel

Older versions of Excel, when used to create or edit .CSV has caused problems with creating files that are not well-formed. When this occurs, you will either need to manually fix the file or use a later version of Excel.

Log files

Log files are accessible from the **Admin > Bulk Operations > Bulk Delete > Log** tab. Two types of log files may be generated, (Simulate and Delete). The file name of each log file consists of the date, separated by a "T" and the time, followed by "Simulate" or "Delete." For example, the file name of the log is based on one of the two naming conventions:

YYYYMMDDTHHMMSS_Simulate.txt – generated each time you run Delete with the Simulate check box selected.

YYYYMMDDTHHMMSS_Delete.txt – generated each time you run Delete without the Simulate check box selected, where:

YYYY = year
MM = month
DD = day
T - separates the date and time of log generation.
HH = hour
MM = minutes
SS = seconds

The log files record information for potential or actual deletions, warnings, and errors. Warnings are generated for parts that are not processed. This is often caused by improperly configured field mappings.

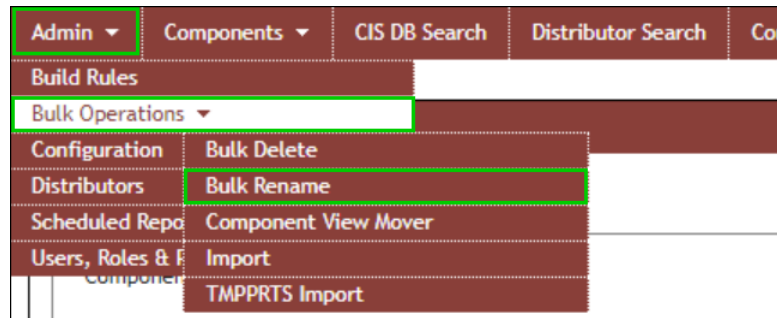
3.2.2 Bulk Rename

The Bulk Rename feature allows a list of parts to be renamed from one company PN to another, using a Comma Separated Value (CSV) file. The CSV file requires a column identifying the current Company PN (PART_NUMBER), Component View to which it belongs, and the desired New Company PN.

It is recommended that you **back up your database prior to** performing the Bulk Rename, or at least confirm that regular backups are being created.

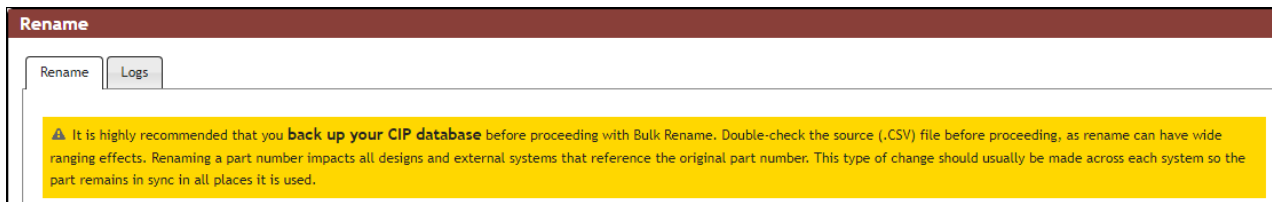
Note: Backing up your database may require assistance from your IT or your DBA (database administrator).

Bulk Rename can be accessed from **Admin > Bulk Operations > Bulk Rename**.



Admin > Bulk Operations > Bulk Rename

A warning shows immediately, informing you that renaming is permanent and advising you to **back up your database before** proceeding.



Bulk Rename Warning Message

[Configure for Rename](#) explains how to:

- Select and upload your CSV file
- Map fields from CSV to CIP

[Rename Parts](#) explains how to:

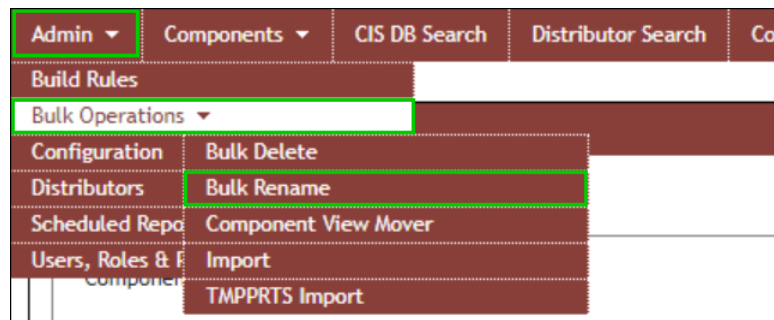
- Rename parts in your CIP/CIS database

When using Bulk Rename, it's important to know how to properly specify what you are trying to rename.

- **Component View** – This is the [Component View](#) of the current company part number (component PN) being renamed. This field is a required field that must be mapped.
- **PART_NUMBER** – This is the company part number (component PN) field. This field is a required field that must be mapped.
- **New PART_NUMBER** – This is the company part number (component PN) field. This field is a required field that must be mapped.

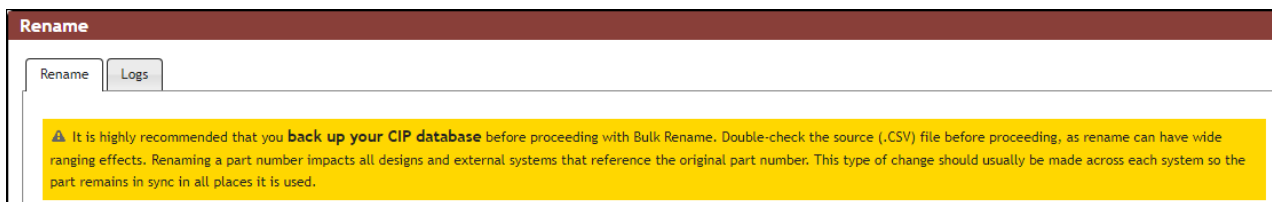
3.2.2.1 Configure for Rename

The bulk rename process begins with the selection of the **Admin > Bulk Operations > Bulk Rename** menu.



Admin > Bulk Operations > Bulk Rename

A warning shows immediately, informing you that renaming is permanent and advising you to **back up your database before** proceeding.



Bulk Rename Warning Message

To configure part data from CSV to CIP

1. Select the **Admin > Bulk Operations > Bulk Rename** menu.
2. Click the **Configuration** button.

Note: If for some reason the bulk rename was interrupted by unforeseen activity (e.g. database restart) or the rename stalls at the same state, the **Configuration** button will be disabled and will be enabled after 30 minutes.

3. Click the **Choose File** or **Browse** button (depending on your browser) to select the .CSV file you want to upload.

Note: The CSV file must be a valid CSV file without duplicate column headers. Extra columns of data without headings are considered duplicate headings.

4. Verify that the delimiter selected by default matches the delimiter of your file. Enter another delimiter if needed.
5. Click the **Upload** button. If successful, the Key Field Configuration screen will appear when the upload process is complete.

Rename

Next

CSV File
Select the csv file with parts to be renamed.

Choose File No file chosen Delimiter , Upload

Choose File, Delimiter, and Upload

- The **Key Field Configuration** screen shows the CIP fields and the .CSV fields of your uploaded file side-by-side to help you map the key fields. Select desired Import Fields from your uploaded .CSV file to map them to the CIP fields.
 - Component View** – This is the Component View of the current company part number (component PN) being renamed. This field is a required field that must be mapped.
 - PART_NUMBER** – This is the company part number (component PN) field. This field is a required field that must be mapped.
 - New PART_NUMBER** – This is the company part number (component PN) field. This field is a required field that must be mapped.
- Click the **Save** button to complete configuration and take you back to the Rename tab's summary screen. You are now ready to [Rename Parts](#).

Rename

Previous Save

Key Field Configuration
Map the key fields from the CSV to the corresponding CIP field.

CIP Field	CSV Field
Component View*	Component View
PART_NUMBER *	PART_NUMBER
New PART_NUMBER *	NEW PART_NUMBER

Rename mapped PART_NUMBER to NEW PART_NUMBER, and validate with Component View

Import File Format

Ensure your .CSV file satisfies the following formatting conventions:

- The import file must be in CSV format. Excel can be used to generate CSV files. After creating your file, you need to save the file as a .CSV file.
- The first line of the file must contain the field names for each column. If a title is in the first few lines of the file, you will need to remove those lines first. The field name for each column must be unique.

- There must be a column for the Component View, current Company PN (PART_NUMBER), and desired new Company PN. Parts without a part number or with one that doesn't exist in CIP will not be renamed and will be considered Not Found.
- The CSV file must not have any duplicate column headers. This includes duplicate blank columns with blank headings.
- All rows within the CSV file should have the same number of columns.
- Characters in the CSV file must be UTF-8 encoded to avoiding [encoding warnings](#).

Warning about using Excel

Older versions of Excel, when used to create or edit .CSV, have caused problems with creating files that are not well-formed. When this occurs, you will either need to manually fix the file or use a later version of Excel.

3.2.2.2 Rename Parts

After you [configure your file for rename](#), you can proceed with the bulk rename. As part of the rename action, a pre-check validation will confirm that the existing parts to be renamed exist in CIP and belong to the specified component view. This helps ensure the correct parts are renamed.

The summary section below the **Configuration** and **Rename** buttons shows details like Missing Data, Not Found, ExistingPN, Duplicate Source, Duplicate Target, etc. Additional details can be found by reviewing the log files shown in the **Logs** tab.

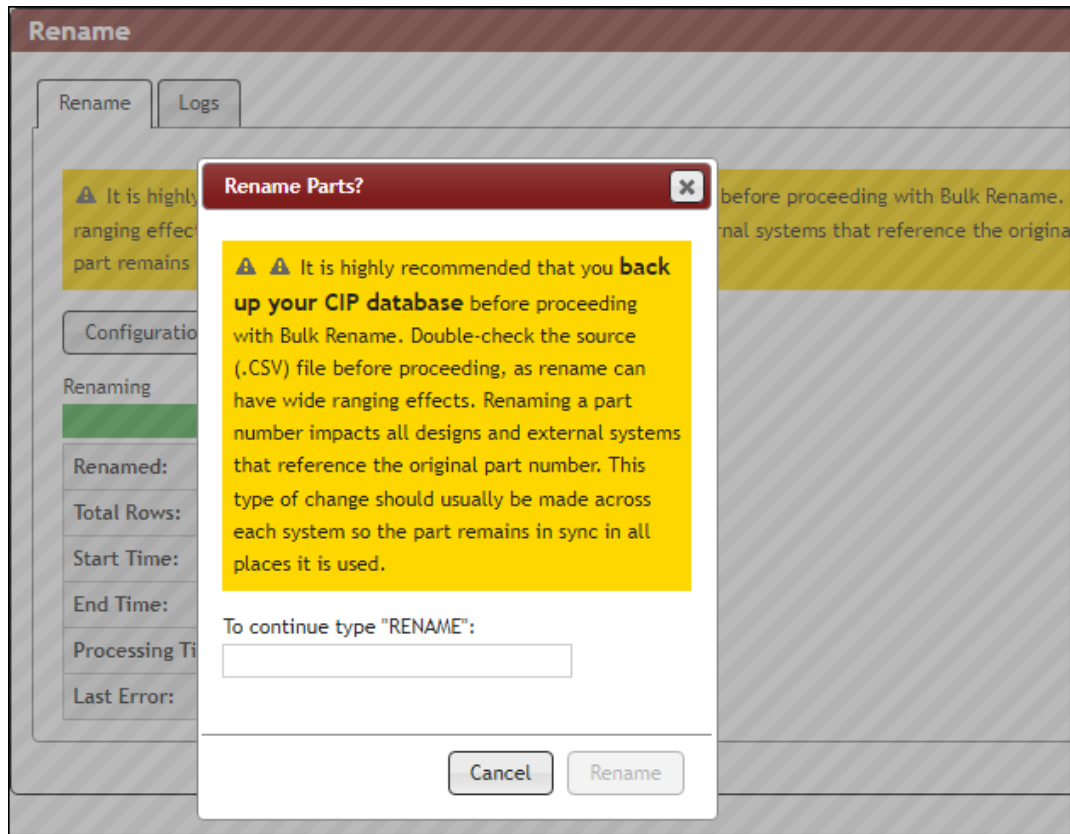
1. Click the **Rename** button to continue. Each time you click the **Rename** button, the CSV data will be validated before proceeding with the rename.

The screenshot shows the 'Rename' interface with a warning message and a validation table. The warning message states: 'It is highly recommended that you back up your CIP database before proceeding with Bulk Rename. Double-check the source (.CSV) file before proceeding, as rename can have wide ranging effects. Renaming a part number impacts all designs and external systems that reference the original part number. This type of change should usually be made across each system so the part remains in sync in all places it is used.' The validation table shows the following data:

Validation	
Missing Data:	0
Not Found:	0
ExistingPN:	0
Duplicate Source:	0
Duplicate Target:	0
Renamed:	0
Total Rows:	0/0
Start Time:	
End Time:	
Processing Time:	
Last Error:	

Rename After Configuration

2. A **Rename Parts?** confirmation window appears. Enter the word **RENAME** in ALL CAPS. The **Rename** button will be disabled until you do so. Click **Rename**.




Rename Parts Confirmation Pop-up Window

3. The summary will be updated until the rename is completed. The validation pre-check will confirm that the existing parts to be renamed exist in CIP and belong to the specified component view. Once validation is completed successfully, the rename will begin.





Renaming	
100%	
Renamed:	2128
Total Rows:	2128/2128
Start Time:	2025-01-22T16:31:50.5437257-05:00
End Time:	2025-01-22T16:32:31.127178-05:00
Processing Time:	00:00:40.5834523
Last Error:	

Rename Summary

4. Click the **Logs** tab to view the list of completed logs. Validation log files are only created when the validation pre-check fails and they will have the **ValidationError** text in the file name. Rename logs will have the **BulkRename** text. Click an individual log file name to view it. Click

the  button to save the file. Notice that logs with the **BulkRename** text in the file name do not have a validation message at the top and bottom of the log file, as shown below.

Rename | Logs

Last 100 Logs	Log File Text
20250122T163157_BulkRename.txt 	RENAMING Capacitors: "10011019" to "RENAMED-10011019-000"
20250122T162918_BulkRename.txt 	RENAMING Capacitors: "10011019_P" to "RENAMED-10011019_P-000"
20250122T162646_ValidationError.txt 	RENAMING Capacitors: "10011505" to "RENAMED-10011505-000"
20250122T153448_BulkRename.txt 	RENAMING Capacitors: "1001220E" to "RENAMED-1001220E-000"
	RENAMING Capacitors: "10013308" to "RENAMED-10013308-000"
	RENAMING Capacitors: "1002100H" to "RENAMED-1002100H-000"
	RENAMING Capacitors: "1002100J" to "RENAMED-1002100J-000"
	RENAMING Capacitors: "10023303" to "RENAMED-10023303-000"

Log File Selected

RENAMING Transistors: "43607410" to "RENAMED-43607410-000"
RENAMING Transistors: "T000008" to "RENAMED-T000008-000"

Renamed: 2128 Total Rows: 2128

Start Time: 1/22/2025 4:31:50 PM End Time: 1/22/2025 4:32:31 PM Processing Time: 00:00:40.5804523

Summary at the End of Log

Here's an example of what you can specify. The column header names in your CSV file are up to you, since you'll be mapping those when you [Configure for Rename](#).

Component View	PART_NUMBER	NEW PART_NUMBER	Expected Behavior
Capacitors	PNCAP001	CAP-001-00	Validate that PNCAP001 exists in CIP and belongs to the Capacitors view , then Rename PNCAP001 to CAP-001-00.
Resistors	PNRES002	RES-002-00	Validate that PNRES002 exists in CIP and belongs to the Capacitors view , then Rename PNRES002 to RES-002-00.

Import File Format

Ensure your .CSV file satisfies the following formatting conventions:

- The import file must be in CSV format. Excel can be used to generate CSV files. After creating your file, you need to save the file as a .CSV file.
- The first line of the file must contain the field names for each column. If a title is in the first few lines of the file, you will need to remove those lines first. The field name for each column must be unique.
- There must be columns for the Component View, Component PN (PART_NUMBER), and New Component PN (PART_NUMBER). If any single part does not exist in your CIP or exists in a different component view than specified, validation will fail and rename will not begin. Review the log, fix the issues, and repeat the process to try again.
- The CSV file must not have any duplicate column headers. This includes duplicate blank columns with blank headings.
- All rows within the CSV file should have the same number of columns.
- Characters in the CSV file must be UTF-8 encoded to avoiding [encoding warnings](#).

Warning about using Excel

Older versions of Excel, when used to create or edit .CSV has caused problems with creating files that are not well-formed. When this occurs, you will either need to manually fix the file or use a later version of Excel.

Log files

Log files are accessible from the **Admin > Bulk Operations > Bulk Rename > Log** tab. Two types of log files may be generated, (ValidationError and BulkRename). The file name of each log file consists of the date, separated by a "T" and the time, followed by "ValidationError" or "BulkRename." For example, the file name of the log is based on one of the two naming conventions:

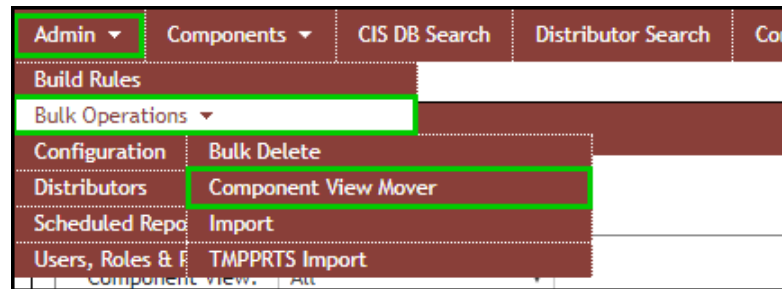
YYYYMMDDTHHMMSS_ValidationError.txt – generated each time you run Rename and the validation pre-check encounters errors.

YYYYMMDDTHHMMSS_BulkRename.txt – generated each time you run Rename and validation pre-check succeeds and rename begins.

YYYY = year
MM = month
DD = day
T - separates the date and time of log generation.
HH = hour
MM = minutes
SS = seconds

The log files record information for validation errors (ValidationError logs) or rename actions and errors (BulkRename logs).

3.2.3 Component View Mover



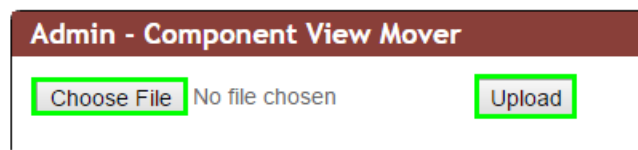
Admin > Bulk Operations > Component View Mover

The Component View Mover can be used to move parts in bulk to a different Component View of the same table. Once you [create a Component View](#), you can move selected parts from an originating table to the new component view.

Note: Users who are granted the role to perform Bulk Operations (**Admin > User Roles & Permissions > Roles** tab) have permission to move components in bulk.

To begin, create a .CSV file that includes the parts that you want to move. You can do this by [exporting search results](#).

1. Open the exported .CSV file. Add or modify a column to contain the name of the Component View for the parts you want to move. Save your .CSV file.
2. Click **Admin > Bulk Operations > Component View Mover** to access the Component View Mover tool.
3. Click **Choose File**, browse to the saved .CSV file you created, then click **Upload**.



Select .CSV List of Parts To Be Moved

4. Use the First Data Row field to select the first row of data below the heading row. The first row to be included is highlighted in green as shown in the screen image below.

Admin - Component View Mover

Choose File SearchResults.csv Upload

First Data Row 2 Check Move

1	Table	Category	PART_NUMBER	Dielectric Type	View
2	CIP_Capacitors	Capacitors	EMA-00000128V22	Ceramic	Ceramic
3	CIP_Capacitors	Capacitors	EMA-00000130V22	Ceramic	Ceramic
4	CIP_Capacitors	Capacitors	EMA-00000135V22	Ceramic	Ceramic
5	CIP_Capacitors	Capacitors	EMA-00000137V22	Ceramic	Ceramic
6	CIP_Capacitors	Capacitors	EMA-00000150V22	Ceramic	Ceramic
7	CIP_Capacitors	Capacitors	EMA-00000372V22	Ceramic	Ceramic

Select the First Data Row

5. Select the columns that contain part number information and the Component View name, by using the drop-down menus above the column headings.

Admin - Component View Mover

Choose File SearchResults.csv Upload

First Data Row 2 Check Move

			PART_NUMBER		New View
1	Table	Category	PART_NUMBER	Dielectric Type	View
2	CIP_Capacitors	Capacitors	EMA-00000128V22	Ceramic	Ceramic
3	CIP_Capacitors	Capacitors	EMA-00000130V22	Ceramic	Ceramic
4	CIP_Capacitors	Capacitors	EMA-00000135V22	Ceramic	Ceramic
5	CIP_Capacitors	Capacitors	EMA-00000137V22	Ceramic	Ceramic
6	CIP_Capacitors	Capacitors	EMA-00000150V22	Ceramic	Ceramic
7	CIP_Capacitors	Capacitors	EMA-00000372V22	Ceramic	Ceramic
8	CIP_Capacitors	Capacitors	EMA-00000374V22	Ceramic	Ceramic

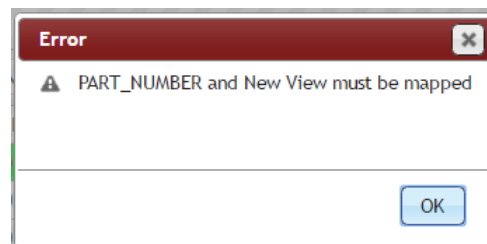
Map PART_NUMBER Column

6. To verify that the information is properly selected, click the **Check** button.

Choose File SearchResults.csv Upload

First Data Row 2 Check Move

If one or both of the required columns is improperly selected, the following error message opens:



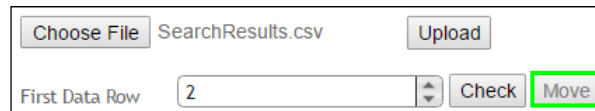
Mapping Error Message

If all information is entered and selected properly, "Validation Succeeded" displays.



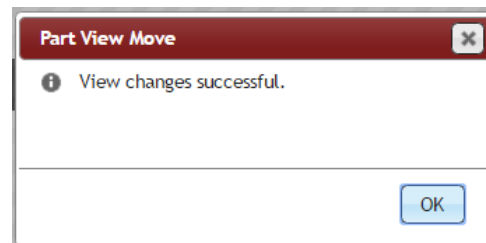
Mapping Validation Message

7. Click **Move** to move the parts to the new Component View.



Move Button to Reconfigure Component View

Once the parts are successfully moved, the following message displays:



Confirmation Message

Note: If you want to move a single part to an alternate view, see topic, [Moving a Part to a Different View](#).

3.2.4 Import

The Import feature loads parts and properties from a Comma Separated Value (CSV) file to your CIP/CIS database. Although usage of this feature is available when you open CIP from Capture, when you are importing a large number of parts you may prefer to open CIP from your browser to more quickly process part information.

[Configure for Import](#) explains how to:

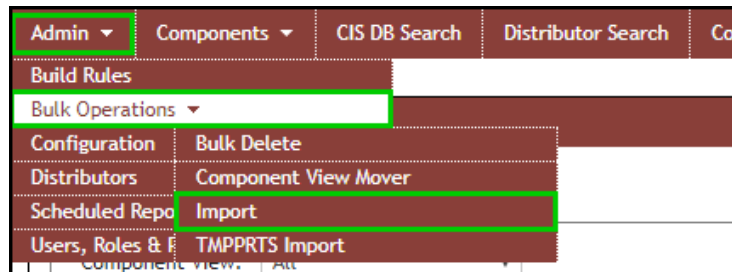
- Select and upload your CSV file
- Map fields from CSV to CIP

[Add Import Data](#) explains how to:

- Preview and simulate the impact of a data import
- Add parts and update your CIS/CIP database

After the import is complete, you are not able to undo database updates. If you are making numerous updates, be sure to back up your database to ensure you are able to restore your pre-update state. **Note:** Backing up your database may require assistance from your IT or your DBA (database administrator).

As shown in the screen image that follows, access to Import is provided from **Admin > Bulk Operations > Import..** Screens that display guide you as you configure, simulate, and import data.



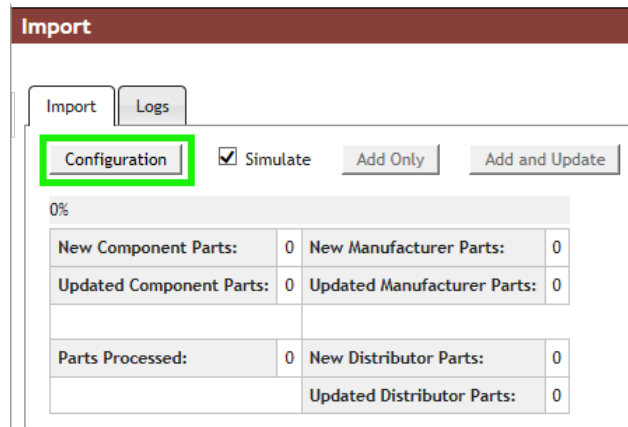
Admin > Bulk Operations > Import

3.2.4.1 Configure for Import

The import process begins with the selection of the **Admin > Bulk Operations > Import** menu. Each time you select the Import menu, you are required to verify part configuration before you can simulate, add, and update parts. This gives you the opportunity to review and update part mappings when part properties may have changed.

To configure part data from CSV to CIP

1. Select the **Admin > Bulk Operations > Import** menu.
2. Click the **Configuration** button.



Configuration Button Opens CSV File Window

If for some reason the import was interrupted by unforeseen activity (e.g. database restart) or the import stalls at the same state, the **Configuration** button will be disabled and will be enabled after 30 minutes.

3. Click the **Choose File** or **Browse** button (depending on your browser) to select the .CSV file you want to import.

Selecting and Uploading CSV File

Note: The CSV file must be a valid CSV file without duplicate column headers. Extra columns of data without headings are considered duplicate headings. Non-ANSI characters in a ANSI formatted CSV file will not import correctly. CSV files containing UTF-8 characters and formatted as UTF-8 will import as the UTF-8 characters. When using Excel to view or edit a CSV file, you will need to ensure that you import the data in the correct format.

4. Verify that the delimiter selected by default matches the delimiter of your file. Enter another delimiter if needed.
5. Click the **Upload** button. When the upload process is complete, the word "Success" displays to the right of the Upload button.
6. Click the **Next** button to open the Key Field Configuration screen. This screen shows the CIP fields and the .CSV fields of your uploaded file side-by-side to help you map the key fields.
 - a. Click the **Auto Map** button to automatically map CIP field names that are an exact match to the fields of your uploaded CSV file.
 - b. Click the selection arrow of each Import Field to map CIP fields to the field of your uploaded .CSV file.

The following example shows the key field mappings after clicking the Auto Map button, then manually mapping the CSV's Table to CIP's Component View. Since the CSV file headers matched the PART_NUMBER, Manufacturer, Manufacturer PN, Distributor, and Distributor PN, they were all auto mapped and only the Component View needed to be mapped manually.

Sample Key Field Configuration Screen
Click Auto Map, then manually map the Component View

- **Part Number** – This is the company part number field. This field is a required field and must be filled in.
 - **Component View** – This is the field in your CSV file that identifies the CIP Component View for which the part is to be imported. This is a required field.
 - **Manufacturer** – This is the field in your CSV file that identifies the name of the manufacturer. This is an optional field. To successfully import manufacturer parts, both the "Manufacturer" field and "Manufacturer PN" field must be mapped.
 - **Manufacturer PN** – This is the field in your CSV file that identifies the manufacturer part number. This is an optional field. To successfully import manufacturer parts, both the "Manufacturer" field and "Manufacturer PN" field must be mapped.
 - **Distributor** – This is the field in your CSV file that identifies the name of the distributor. This is an optional field. To successfully import a distributor part, both the "Distributor" field and "Distributor PN" field need to be mapped.
 - **Distributor PN** – This is the field in your CSV file that identifies the distributor part number. This is an optional field. To successfully import a distributor part, both the "Distributor" field and "Distributor PN" field need to be mapped.
7. Click **Next** to proceed to the Capacitors Fields Mappings page.

CIP Field	Import Field
Part Type	<input type="text"/>
Description	<input type="text"/>
Value	<input type="text"/>
PCB Footprint	<input type="text"/>
Schematic Part	<input type="text"/>
Number of Pins	<input type="text"/>
Operating Temperature Maximum	<input type="text"/>
Operating Temperature Minimum	<input type="text"/>

Component Field Mappings Screen

Note: A separate "Field Mapping" page is provided for each component view. 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.

- Click the **Auto Map** button to automatically map CIP field names that are an exact match to the fields of your uploaded CSV file. Each field may optionally be mapped manually.

Be sure to verify all view configurations each time you go through this process. Changes to the import file may impact parts imported. Review mapped fields and edit as appropriate.

- Continue through all configured component views. If the Manufacturer Name and Manufacturer PN are configured in step #6, then Manufacturer Field Mappings screen opens. Map manufacturer fields using the same instructions in step #8.

Import

Previous Next

Manufacturer Field Mappings

Auto Map

CIP Field	Import Field
Manufacturer PN Status	Mfr Status <input type="text"/>
Datasheet	<input type="text"/>
RoHS Compliant	<input type="text"/>
Image	<input type="text"/>

Previous Next

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

- If the Distributor Name and Distributor PN are configured in step #6, then the Distributor Field Mappings screen opens. Map the distributor fields using the same instructions provided in step #8.

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

- 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, each section of the summary screen is zero.

The last saved configuration that is applicable to the newly uploaded CSV file will pre-populate each time you revisit the Field Mappings pages.

3.2.4.2 Add Import Data

After you [configure your file for import](#), you can review the log file to preview a description of changes before you import your parts into the CIP database. The preview functionality is enabled when the **Simulate** check box is selected.

Whether you are previewing or performing an actual import, you have the following import options:

- Add new parts without updating existing parts (**Add Only** button) - The **Add Only** button adds new parts and new manufacturer parts. Parts that already exist in the database remain unaltered. Field data for existing parts in the CSV will not be used in the import.
- Add new parts and update existing parts (**Add and Update** button) - The **Add and Update** button adds new parts and updates attributes associated to parts already in the database.

Each time you click the **Add Only** or **Add and Update** button a log file is created. The log file name corresponding to the **Simulate** option contains a date-time code and the text "Simulate". The log file name without the **Simulate** option contains a date-time code and the text "Import". Information presented in the log describes changes that correspond to the **Add Only** or **Add and Update** action.

The **Simulate** check box allows you to verify actions before they are performed on the database. A summary number of new parts added, the number of existing parts updated, the number of new manufacturer parts added, the number of existing manufacturer parts updated, the number of new distributor parts added, the number of existing distributor parts updated and the total number of parts processed is included in the log file. Summary information is provided in the Import screen.

The screenshot shows the 'Import' screen with a 'Configuration' tab selected. A 'Simulate' checkbox is checked. Below the configuration are two buttons: 'Add Only' and 'Add and Update'. A progress indicator shows '0%'. A summary table displays the following data:

New Component Parts:	0	New Manufacturer Parts:	0
Updated Component Parts:	0	Updated Manufacturer Parts:	0
Parts Processed:	0	New Distributor Parts:	0
		Updated Distributor Parts:	0

Keep in mind that once an update to the database is performed, the only way to recover is to restore a previous database backup. Reviewing the log file simulation before updating your database helps minimize problems and the unintentional import of wrong data.

Import File Format

Ensure your .CSV file satisfies the following formatting conventions:

- The import file must be in CSV format. Excel can be used to generate CSV files. After creating your file, you need to save the file as a .CSV file.
- The first line of the file must contain the field names for each column. If a title is in the first few lines of the file, you will need to remove those lines first. The field name for each column must be unique.
- There must be a column for the part number and a column for the part category. Each part in the file must have a part number and a part category. Parts without a part number or part category are not imported. Manufacturer, Manufacturer PN, Distributor, and Distributor PN are optional columns.

- The CSV file must not have any duplicate column headers. This includes duplicate blank columns with blank headings.
- All rows within the CSV file should have the same number of columns.
- Characters in the CSV file must be UTF-8 encoded to avoiding [encoding warnings](#).

Required Values

The PART NUMBER may be in any format. However, values for the part category field must match the CIP view names configured using [Admin > Configuration > Component Views tab](#). The capitalization of the letter case must also match. The following list shows the views from an out-of-the-box CIP installation.

- Capacitors
- Connectors
- Crystals and Oscillators
- Diodes
- ICs
- Inductors
- Mechanical
- Misc
- Relays
- Resistors
- Switches
- Transformers
- Transistors

Duplicate Parts

When a part is duplicated in the import file but contains different values, only one set of the data is imported. If the duplicate part has different manufacture or manufacturer part number, each of the manufacturer parts is added. In the following example, part PN0001 will be added once, but with only one of the two descriptions shown. Both manufacturer parts will be added and will be associated to PN0001.

Part Number	Category	Manufacturer	Manufacturer PN	Description
PN0001	Capacitors	VISHAY	293D336X9016B2TE 3	CAP, 33 uF 10% 16 V 3528 SMD Tantalum
PN0001	Capacitors	AVX Corporation	TAJA336K006RNJ	CAP, 33 UF 10% 6.3V 3216-18 SMD Tantalum

When a part in the .CSV file is already in the database but has a Part Category mismatch from the part in the database, the part will not be update and a warning will be in the log file.

Different manufacturer Name or part Number from database

Manufacturer parts that have any differences in the manufacturer name or part number will be added. Manufacturer part data will only be updated when both manufacturer name and part number are an exact match. For example, when AVX is compared to AVX Corporation, it will be considered as a different part and will be added.

Warning about using Excel

Older versions of Excel, when used to create or edit .CSV, have caused problems with creating files that are not well-formed. When this occurs, you will either need to manually fix the file or use a later version of Excel.

Log files

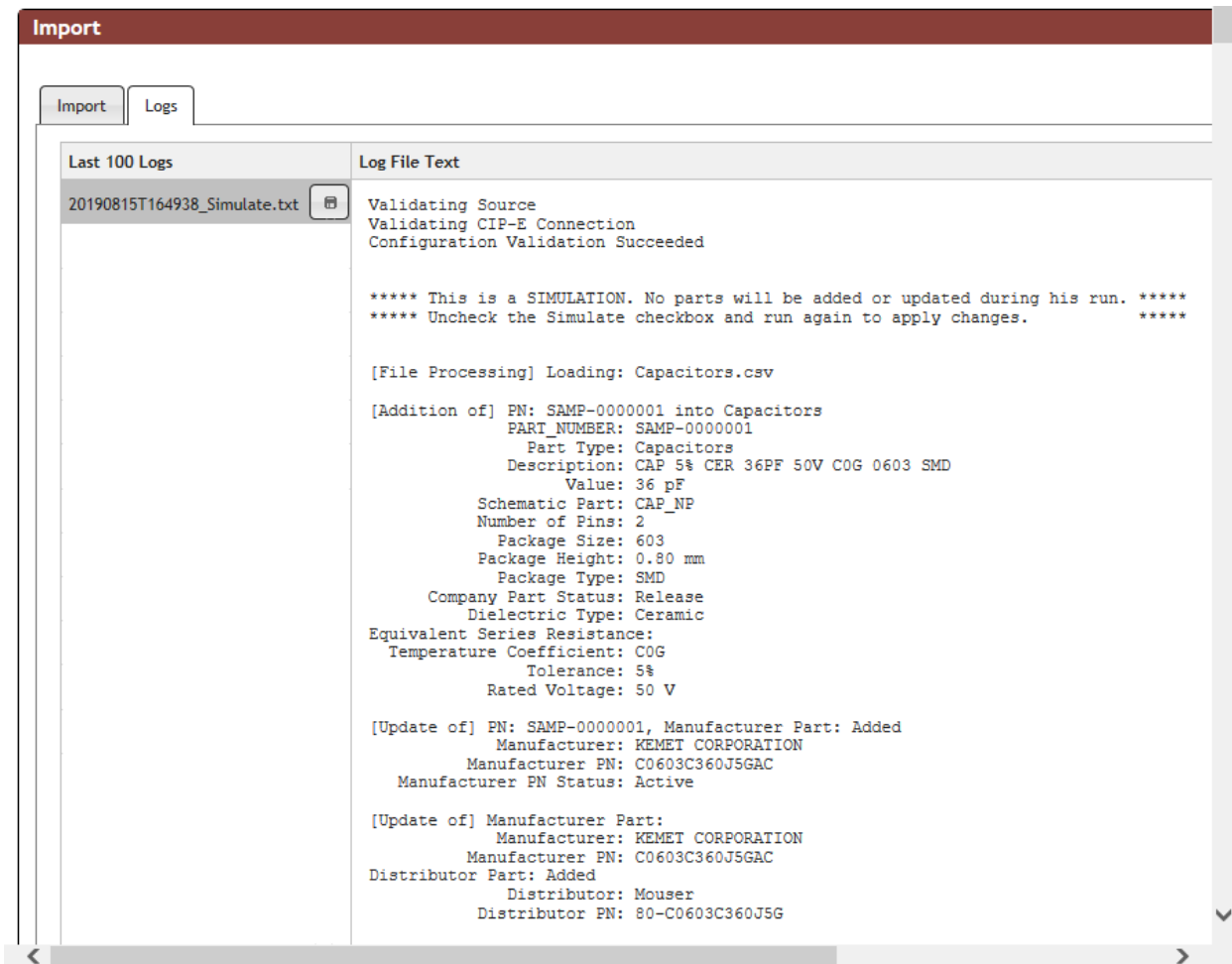
Log files are accessible from the **Admin > Bulk Operations > Import > Log** tab. Two types of log files may be generated, (Simulate and Import). The filename of each log file consists of the date, separated by a "T" and the time, followed by "Simulate" or "Import." For example, the file name of the log is based on one of the two naming conventions:

YYYYMMDDTHHMMSS_Simulate.txt – generated each time you run either **Add Only** or **Add and Update** import options with the Simulate check box selected.

YYYYMMDDTHHMMSS_Import.txt – generated each time you run without the Simulate check box selected where:

YYYY = year
MM = month
DD = day
T - separates the date and time of log generation.
HH = hour
MM = minutes
SS = seconds

The log files record information for potential or actual changes and list warnings and errors. Warnings are generated for parts that are not processed. This is often caused by improperly configured field mappings. Information is not logged when a part is missing a Part Number.



Sample Log File

A "Summary" of actions is located at the end of the log. The image that follows provides an example of the log summary.

```

----- Summary -----
Warnings:      2
Parts Added:   16
Parts Updated: 0
Mfr Parts Added: 16
Mfr Parts Updated: 0
Dis Parts Added: 12
Dis Parts Updated: 0
# of Parts Processed: 18
Start Time: 10/26/2018 9:55:12 AM
End Time: 10/26/2018 9:55:13 AM
Processing Time: 00:00:01.9218809

```

Sample Log Summary

Sample Warning

The number of warnings recorded in the log is stated in the Summary located at the bottom of the log. For example, the following log file shows two warnings. Categories must be named the same as your CIP views.

```
[Update of] PN: SAMP-0000015, Manufacturer Part: Added
Manufacturer: VISHAY
Manufacturer PN: 293D335X9016B2TE3
Manufacturer PN Status: Active

[Part Processing] Warning: Part Number 'SAMP-0000016' could not be processed. No mapping found for category 'Cap
'.
[Part Processing] Warning: Part Number 'SAMP-0000017' could not be processed. No mapping found for category 'Cap

----- Summary -----
Warnings:          2
Parts Added:       16
Parts Updated:     0
Mfr Parts Added:  16
Mfr Parts Updated: 0
Dis Parts Added:  12
Dis Parts Updated: 0
# of Parts Processed: 18
Start Time: 10/26/2018 9:55:12 AM
End Time: 10/26/2018 9:55:13 AM
Processing Time: 00:00:01.9218809
```

When the .CSV file you are importing contains ANSI encoded characters, an encoding warning is recorded in the log. Parts that have a Part Number containing ANSI characters cannot be processed. Parts that have attribute values that contain ANSI characters will be imported with the character shown in the log.

The image below provides an example of a part that has an encoding error in its part number--this part cannot be processed. The other part will be imported but data imported is changed as stated in the log file.

```

Log File Text

Validating Source
Validating CIP-E Connection
Configuration Validation Succeeded

[File Processing] Loading: AnsiEncoded.csv

[Part Processing] Warning: Part Number 'SAMP-000000?11' could not be processed.
[Encoding Warning] Characters found in source can not be stored in database.
PART_NUMBER: SAMP-000000?11 to SAMP-000000?11

[Addition of] PN: SAMP-00000012 into Capacitors
PART_NUMBER: SAMP-00000012
Description: CAP 75% CER 680?F 50V COG 0805 SMD
[Encoding Warning]: CAP 75% CER 680?F 50V COG 0805 SMD To: CAP 75% CER 680?F 50V COG 0805 SMD
Value: 680?F
[Encoding Warning]: 680?F To: 680?F
Schematic Part: CAP_NP
Number of Pins: 2
Operating Temperature Maximum: 125 C
Operating Temperature Minimum: -55 C
Package Size: 805
Package Height: 0.78 mm
Package Type: SMD
Dielectric Type: Ceramic
Temperature Coefficient: COG
Tolerance: 75%
[Encoding Warning]: 75% To: 75%
Rated Voltage: 50 V

----- Summary -----
Warnings: 4
Parts Added: 1
Parts Updated: 0
Mfr Parts Added: 0
Mfr Parts Updated: 0
Dis Parts Added: 0
Dis Parts Updated: 0
# of Parts Processed: 2
Start Time: 12/11/2018 11:07:42 AM
End Time: 12/11/2018 11:07:42 AM
Processing Time: 00:00:00.0289230

```

Encoding warnings stating how properties are modified.

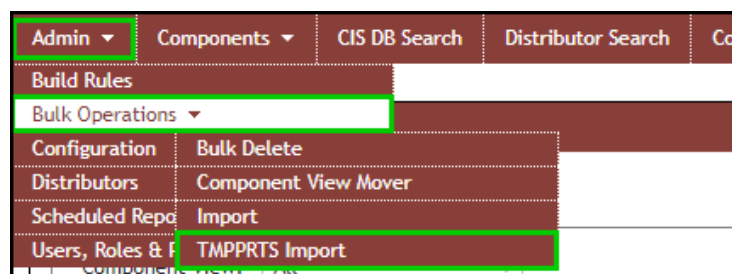
Part unable to be processed and imported due to error in Part Number

Log warnings indicating use of ANSI Encoded characters

3.2.5 TMPPRTS Import

When parts are migrated from an existing CIS database to a new CIP database, your parts may also include TMP parts that have been converted to formal parts as well as TMP parts that are not ready to be converted. You will need to import the TMP part associations to ensure existing designs that use TMP parts will continue to get updated with the CIS Part Manager. The TMPPRTS Import feature enables you to migrate TMP parts to the new CIP database.

Select **Admin > Bulk Operations > TMPPRTS Import** to access the TMP parts import functionality.



Admin > Bulk Operations > TMPPRTS Import

A warning shows immediately. The TMPPRTS Import functionality will only import the association data. Parts that have TMP part numbers will need to be first imported using the [Import](#) Instructions.

TMPPTS Import

⚠ This feature allows for the import of new TMPRTNO association data into the TMPPTS table. Existing TMPRTNO data will not be updated/overwritten. This is primarily useful when migrating your CIS data into CIP, such as from a homegrown CIS database. After that point, TMP parts should be created individually from within CIP and/or CIS.

***NOTE:** This feature is only for importing the TMPRTNO association data. Component data will need to be imported separately using Admin > Bulk Operations > Import.

●
●

CSV File

Select the csv file to be imported.

No file chosen
Delimiter

Export the TMPRTNO association from your existing TMPPTS Table to a CSV format before starting. An example is shown in the following figure.

TMPRTNO	RELRTNO	USERNAME	CREATETIME
TMP-1	NULL	Joe	August 16, 2021, 19:05:47
TMP-2	NULL	Joe	August 16, 2021, 19:06:00
TMP-3	NULL	Jane	August 16, 2021, 19:06:30
TMP-4	DIO-00000001	Jane	August 16, 2021, 19:06:46
TMP-5	NULL	Jane	August 16, 2021, 19:07:10
TMP-6	NULL	Joe	August 16, 2021, 19:07:38

The following steps describe how to import the TMPRTNO association:

1. Select **Choose File** button and select the file you exported from your CIS database.
2. Change the **delimiter**, if not using a comma and select the **Upload** button.
3. Select the **Next** button and verify that mapping is correct as shown in the figure below.

Key Field Configuration

Map the key fields from the import file to the corresponding TMPPTS field.

	File	tmp.csv
	TMPPTS Field	Import Field
TMPPTNO *		<input type="text" value="TMPPTNO"/> ▼
RELPTNO *		<input type="text" value="RELPTNO"/> ▼
USERNAME		<input type="text" value="USERNAME"/> ▼
CREATETIME		<input type="text" value="CREATETIME"/> ▼

4. Select the **Next** button again to complete the mapping.

Summary

	File	tmp.csv
	TMPPTS Field	Import Field
TMPPTNO		TMPPTNO
RELPTNO		RELPTNO
USERNAME		USERNAME
CREATETIME		CREATETIME

5. Select the **Import** button to import the association. A **Success** pop up shows when done.
6. Click on the **Temp. Parts** tab to review the TMP parts.

Temporary Parts

Parts

Include Assigned Parts Username: ▼

Component View	Original TMP Number	Assigned PART_NUMBER	Creation Time	Username
Crystals and Oscillators	TMP-6		August 16, 2021, 19:07:38	Joe
Diodes	TMP-5		August 16, 2021, 19:07:10	Jane
Diodes	TMP-4	DIO-00000001	August 16, 2021, 19:06:46	Jane
Resistors	TMP-3		August 16, 2021, 19:06:30	Jane
Inductors	TMP-2		August 16, 2021, 19:06:00	Joe
Connectors	TMP-1		August 16, 2021, 19:05:47	Joe

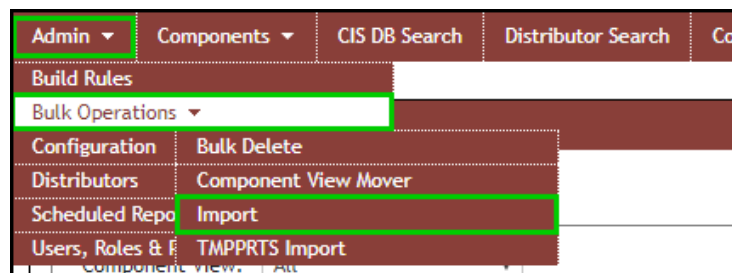
3.2.6 Import Starter Library

The Starter Library includes over 5,000 manufacturer parts, datasheets, PCB footprints, and schematic symbols. The part numbers with parametric data are installed as a CSV file with the CIP client installation. The datasheets, PCB footprints, and schematic symbols are installed with the web application. You have access to Starter Library symbol and footprint libraries after your company IT configures Starter Library file sharing.

The Starter Library is imported into CIP as an **Admin > Bulk Operation** as described in the steps that follow. After you complete the import, you need to [update the default path](#) to datasheet parts.

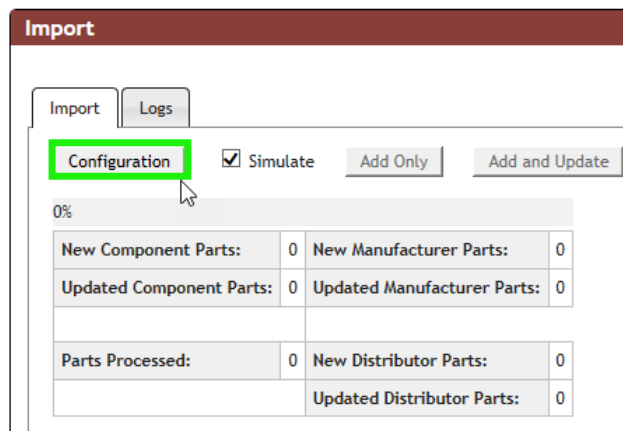
To [import](#) the CIP Starter Library

1. Select the **Admin > Bulk Operations > Import** menu.



Menu selection to import Starter Library

2. Click the **Configuration** button.



Configuration button of Import window

3. Select **Choose File** and browse to select the Starter Library file: Starter_Lib.csv. The Starter_Lib.csv is installed with the CIP client installation.

The default path for each of version of the CIP Client plugin is:

C:

`\Cadence\SPB_<25.1/24.1/23.1>\tools\capture\tclscripts\capAutoLoad\CIPClient\CIP\StarterLibraryParts\Starter_Lib.csv`

If you have the System Capture Plugin installed, the starter library file is in `%CDS_SITE%\syscap\Libraries\Starter_Lib.csv`

- Click the **Upload** button. When the file successfully uploads the word "Success" displays.

The screenshot shows the 'Import' screen with a progress indicator at the top. The 'CSV File' section is active, showing a 'Choose File' button, the filename 'Starter_Lib.csv', and a 'Delimiter' dropdown set to ','. The 'Upload' button is highlighted with a green box, and the word 'Success' is displayed to its right. There are 'Next' buttons above and below the progress indicator.

Upload Starter Library CSV File

- Click the **Next** button to continue.
- Configure field mappings in the Key Field Configuration screen. The figure that follows provides an example of recommended field mappings.

The screenshot shows the 'Key Field Configuration' screen with a progress indicator at the top. The 'Key Field Configuration' section is active, showing a table with the following mappings:

CIP Field	Import Field
PART_NUMBER	PART_NUMBER
Component View	Table
Manufacturer	Manufacturer
Manufacturer PN	Manufacturer PN
Distributor	Distributor
Distributor PN	Distributor PN

There are 'Previous' and 'Next' buttons at the top and bottom of the screen, and a progress indicator at the bottom.

Map Key Field Configuration

7. Click **Next** and **Automap** to map the Component Field Mappings for each Component View (e.g. Capacitors, Connectors, etc.). Also map the **Manufacturer** and **Distributor** fields as well.

The screenshot shows the 'Import' screen with a 'Capacitors Field Mappings' section. At the top, there are 'Previous' and 'Next' buttons and a progress indicator. Below the title is an 'Auto Map' button. The main area is a table with two columns: 'CIP Field' and 'Import Field'. The table contains the following rows:

CIP Field	Import Field
Part Type	Part Type
Description	Description
Value	Value
PCB Footprint	PCB Footprint
Schematic Part	Schematic Part
Number of Pins	Number of Pins
Operating Temperature Maximum	Operating Temperature Maximum

Capacitors Field Mappings

8. Click the **Save** button that is located in the last Import screen to redisplay the main Import screen.
9. Click the **Add Only** button to start processing on your selected file in **Simulate** mode.

The screenshot shows the 'Import' screen with a 'Configuration' tab selected. The 'Simulate' checkbox is checked. The 'Add Only' button is highlighted with a green box. Below the buttons is a progress bar showing 0%. A table displays the following statistics:

New Component Parts:	0	New Manufacturer Parts:	0
Updated Component Parts:	0	Updated Manufacturer Parts:	0
Parts Processed:	0	New Distributor Parts:	0
		Updated Distributor Parts:	0

Click Add Only

As Starter Library parts are processed, the green status bar indicates the percent complete. When the status bar reaches 100% the Stater Library is fully processed.

Note: The **Simulate** check box allows you to verify actions before they are performed on the database.

The screenshot shows the 'Import' window with the 'Logs' tab selected. The 'Simulate' checkbox is checked, and the 'Add Only' button is highlighted. A green progress bar at the top indicates 100% completion. Below the progress bar is a table with the following data:

New Component Parts:	0	New Manufacturer Parts:	0
Updated Component Parts:	0	Updated Manufacturer Parts:	0
Parts Processed:	4866	New Distributor Parts:	0
		Updated Distributor Parts:	0

100% Indicates Processing is Complete

10. Select the Logs tab to review the log for the simulated processing of the Starter Library.
11. Deselect the **Simulate** check box and select the **Add Only** button to start importing the Starter Library data into CIP.

The screenshot shows the 'Import' window with the 'Logs' tab selected. The 'Simulate' checkbox is now unchecked, and the 'Add Only' button is highlighted with a green box. The progress bar at the top shows 0%. The table below the progress bar has the following data:

New Component Parts:	0	New Manufacturer Parts:	0
Updated Component Parts:	0	Updated Manufacturer Parts:	0
Parts Processed:	0	New Distributor Parts:	0
		Updated Distributor Parts:	0

Deselect Simulate Check box and Click Add Only

12. When the status bar reaches 100%, the Starter Library is fully imported into CIP.

The datasheet paths in the Starter Library are configured with a generic path. After you successfully import the CIP Starter Library you need to [update datasheet paths](#) as described in the next section topic.

3.2.7 Update Datasheet Paths

The path of the technical datasheet links may be configured for access from the CIP web interface or Capture CIS Explorer. The datasheet paths in CIP will need to be updated according to the method configured by your IT administrator.

Your IT administrator may define datasheet paths using any of the following methods:

- **URL to datasheets** (e.g. <http://server/datasheetpath/datasheet.pdf>) - Your IT administrator creates a virtual directory in IIS that is linked to your datasheet directory. If you choose to install the Starter Library, the virtual directory will link to the Starter Library datasheet directory on the web server. Your IT administrator needs to share this directory to allow users to add new datasheets. The virtual directory may be added as a path within CIP-E or as separate URL. Instructions that explain how to create a virtual directory are provided by Microsoft: <https://docs.microsoft.com/en-us/dotnet/framework/wcf/samples/virtual-directory-setup-instructions>.
- **UNC path to datasheets** (e.g. `\\server\datasheetdirectory\datasheet.pdf`) - Datasheets can only be accessed by users using the CIS Explorer. Users opening CIP will need to copy and paste the path into the address bar of a File Manager window. This method may be slower the first time a datasheet is accessed.
- **Mapped drive to datasheets** - Datasheets can only be accessed by users using the CIS Explorer. Users opening CIP will need to copy the path and paste it into a Windows file manager navigation address bar. If this configuration is set up, all users requiring access must have the same mapped drive letter.

Before updating the datasheet paths, determine which of the above options is configured. You need to update the Datasheet field to part datasheets whenever the location of the datasheets changes.

Updating the datasheet paths in CIP is a 3-step process:

1. Create a CSV export file that includes the CIP datasheet field.
2. Modify the datasheet field to the new datasheet path in the exported CSV file.
3. Import the modified CSV file to update CIP.

Step 1 - Create CSV export file

1. Open the CIS DB Search window and specify search options.

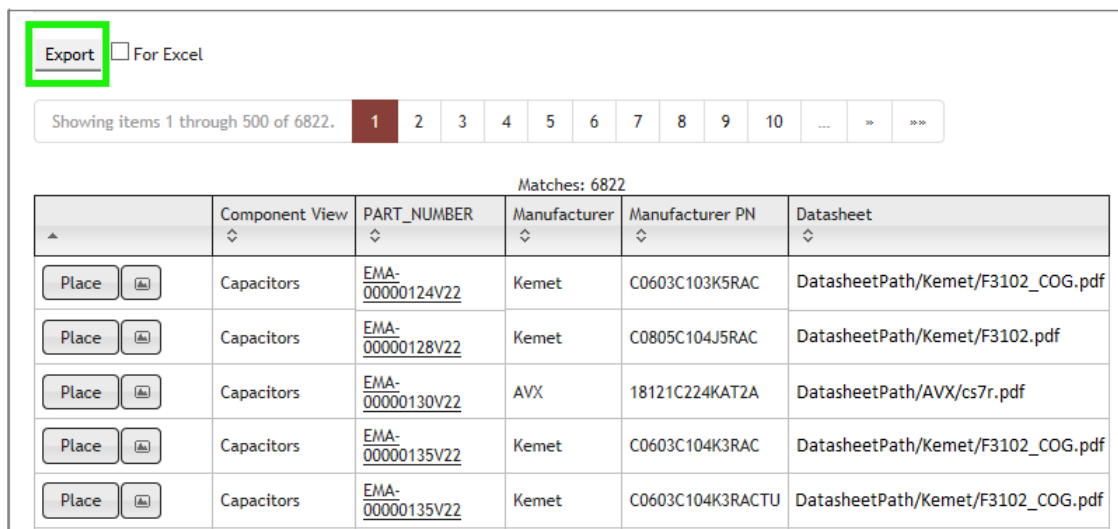
The screenshot shows the 'Search' window with the following configuration:

- Component View: All
- Search Criteria Table:

(	Parametric Field	Operator	Parameter	)	Condition	Order	Add/Remove
+ -	PART_NUMBER	Contains Data		+ -		▲ ▼	+ -
- Include Additional Fields in Search Results:
 - Manufacturer
 - Manufacturer PN
 - Datasheet
- Buttons: Search, Clear

- a) Select **PART_NUMBER** as the Parametric Field.
 - b) Select **Contains Data** as the Operator.
 - c) Check the **Include Additional fields in Search Results** check box and select **Manufacturer, Manufacturer PN, and DataSheet**.
 - d) Click **Search**.
2. Click the **Export** button. (Do not check the For Excel checkbox).

Note: Export functionality is not available when using the System Capture plugin.



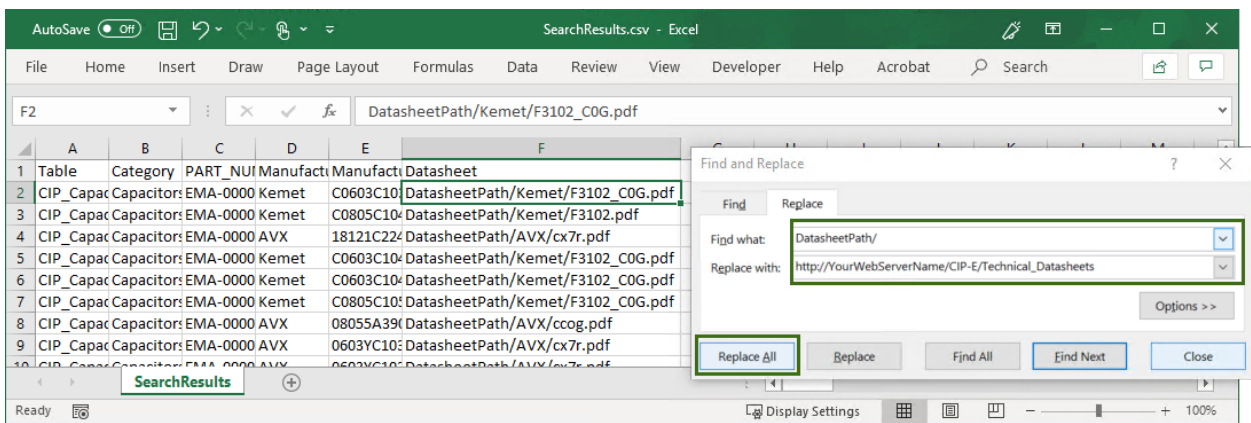
Step 2 - Modify the datasheet field

1. Open the exported file using Excel.
2. Conduct a search in Excel for the path you want to replace. The generic path to the Starter Library that needs to be replaced is "DatasheetPath/".

The next screen image that follows, for example, shows a search entry for DatasheetPath/.

3. Enter replacement text that matches the path your IT administrator configured, (URL, UNC, or network drive).

The example in the figure below shows replacement text for a URL.

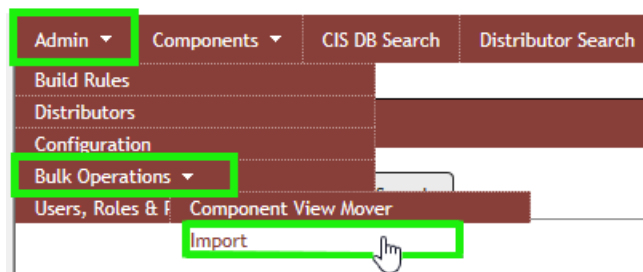


Entry of Search and Replace Text

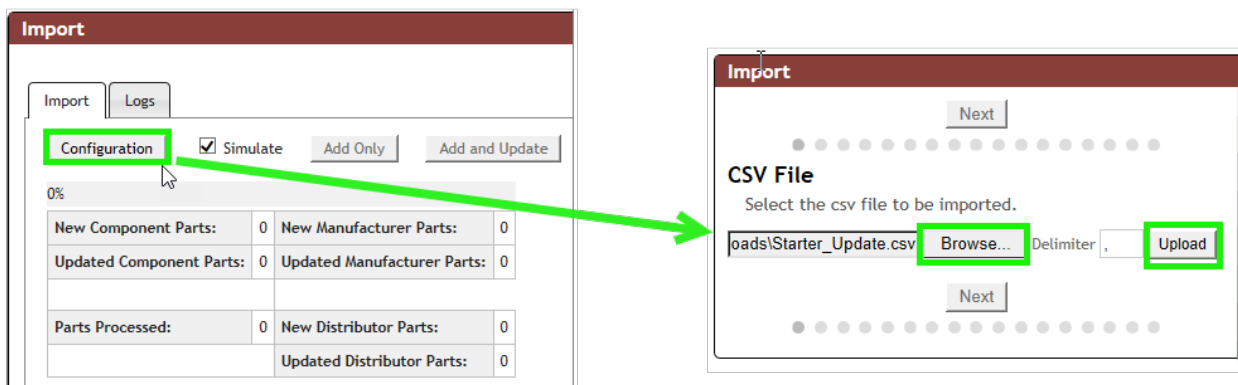
4. Click the **Replace All** button.
5. Save the .CSV file and close Excel.
6. Return to CIP.

Step 3 - Import the modified CSV file

1. Select the **Admin > Bulk Operations > Import** menu to open the main Import window.



2. Click **Configuration** and browse to select the updated CSV file you saved in step 2. Then **Upload** the selected file.



- Map the Component View to **Category**. Page through the component configuration pages and save the configuration mappings.

Key Field Configuration
Map the key fields from the import file to the corresponding CIP field.

CIP Field	
PART_NUMBER	PART_NUMBER
Component View	Table Category
Manufacturer	PART_NUMBER Manufacturer Manufacturer PN Datasheet
Manufacturer PN	
Distributor	
Distributor PN	

- From the Manufacturing Field Mappings page map the **Datasheets** field as shown in the screen capture below.

Import

Previous Next

Manufacturer Field Mappings

Auto Map

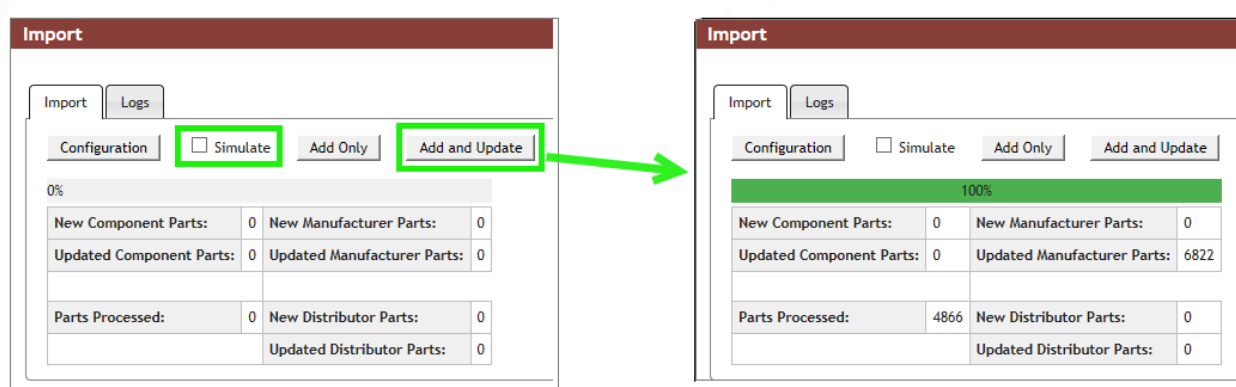
CIP Field	Import Field
Manufacturer PN Status	Manufacturer PN Status
Datasheet	Datasheet
RoHS Compliant	RoHS Compliant
Image	Image

Previous Next

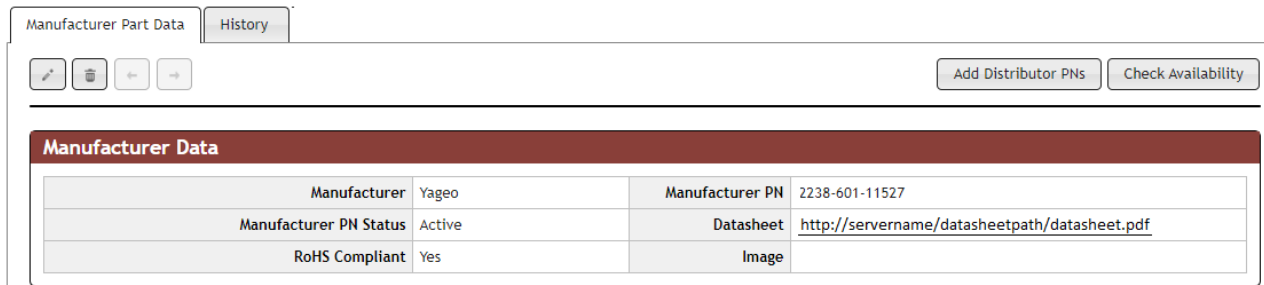
- Save the configuration mappings.
- You may proceed by either simulating the import and review the log of potential changes first or making real changes to the database without simulate.

- a. If you'd like to simulate the import before making any real changes to your CIP database, check the **Simulate** check box before clicking **Add and Update**.
- b. To make real changes to your CIP database, deselect the **Simulate** check box and click **Add and Update**.

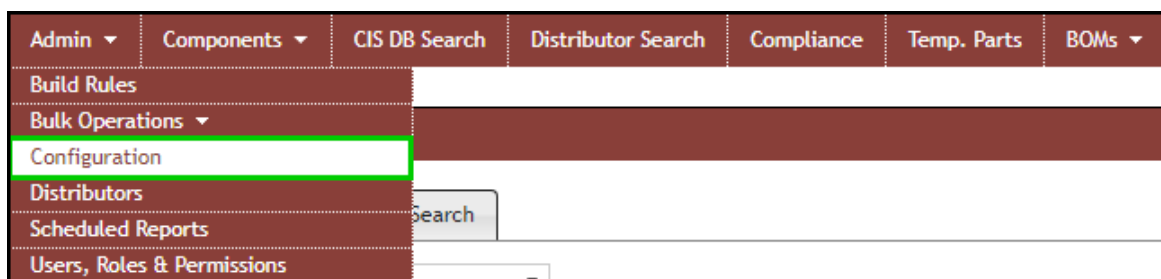
The green status bar informs you of the update progress which may take a few minutes.



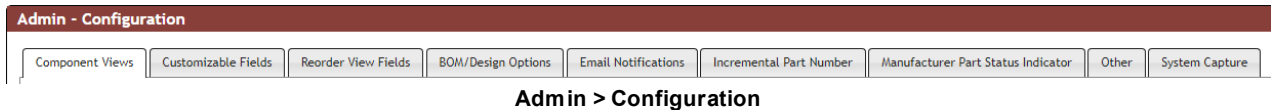
7. View the Manufacturer Data from the Part Details page of a component and confirm the path to the part datasheet successfully displays the part datasheet when selected.



3.3 Configuration



The Configuration menu under the Admin menu item allows you to do the following:



- [Create Component Views](#) utilizing subsets of data from default tables.
- [Customize Fields](#) to add/remove/rename fields, display pick lists, default field values, include fields for history tracking, and control required fields for TMP and Formal parts. [Configure fields to be transferred to design](#) when placing parts from CIP and enable System Capture Configuration.
- [Reorder View Fields](#) - to change order and grouping of fields in each component view.
- [BOM/Design Options](#) - to configure BOM Format and Design Parts Sync
- [Set up Email Notifications](#) to inform a team or work group when changes to the CIP database occur.
- [Incrementally auto-number new parts](#) by configuring a auto-increment part numbering scheme.
- [Color code Manufacturer Part Status](#) field by matching a part status with a color coded configuration .
- [System Capture Configuration](#) to configure substitution rules and create PTF file. **Note:** This option is hidden when [configure fields to be transferred to design](#) is not set to a System Capture option.















[Other](#) items you can configure:

- [New Part Default](#) – Configure the [New Part Form](#) to default as a Temporary or Formal part.
- [Import/Export Separator](#) – Configures the separator to be used for CSV file import and export.
- [Schematic Part/PCB Footprint Delimiter](#) – Configures the delimiter for symbols when multiple symbols are specified for a part.
- [CIP Base URL](#) – Configure the URL for CIP to enable CIS users to open CIP parts from the CIS Explorer Window within Cadence OrCAD Capture.
- [Component Company Action Link](#) – Enable a global link enabled on all components pages.
- [Reuse Module Directory](#) – Configure the location where reuse module .DSN files are stored.
- [Show CIP Client Download Link](#) – This allows users in a company to download the CIP client directly from the CIP page.
- [Temp Part Prefix](#) – Configure the part number prefix used for temporary parts.
- [Full Text Search Enabled](#) - This enables/disables full text search functionality.

- [Enable Download of Ultra Librarian Models](#) - Enable Ultra Librarian model download and configure common download location.
- [Enable Virtual Librarian Service](#) - Enable Virtual Librarian Service (VLS) menu item and Manufacturer PN request button for viewing and submitting VLS requests.


3.3.1 Component Views



Component Views can be created to show more specific categories and fields for parts than the default views. All tables that can be used to derived new views are shown in the Table Name column under **Admin > Configuration > Component Views**, but tables are only shown in this section. Component Views are seen by the CIP users and CIS users. Views can be renamed or removed. Any changes to a component view will likely **require an update to the CIS .DBC file** used by Capture CIS. Review the [Appendix](#) for instructions to create or update the CIP/CIS .DBC file.


Admin - Configuration			
Component Views		Customizable Fields	Reorder View Fields
	Table Name	Enable	View Names
	CIP_Capacitors	<input checked="" type="checkbox"/>	Capacitors
	CIP_Connectors	<input checked="" type="checkbox"/>	Connectors
	CIP_Crystals and Oscillators	<input checked="" type="checkbox"/>	Crystals and Oscillators
	CIP_Diodes	<input checked="" type="checkbox"/>	Diodes
	CIP_ICs	<input checked="" type="checkbox"/>	ICs
	CIP_Inductors	<input checked="" type="checkbox"/>	Inductors
	CIP_Mechanical	<input checked="" type="checkbox"/>	Mechanical
	CIP_Misc	<input checked="" type="checkbox"/>	Misc
	CIP_Relays	<input checked="" type="checkbox"/>	Relays
	CIP_Resistors	<input checked="" type="checkbox"/>	Resistors
	CIP_Switches	<input checked="" type="checkbox"/>	Switches
	CIP_Transformers	<input checked="" type="checkbox"/>	Transformers
	CIP_Transistors	<input checked="" type="checkbox"/>	Transistors
	CIP_Reuse Modules	<input checked="" type="checkbox"/>	Reuse Modules

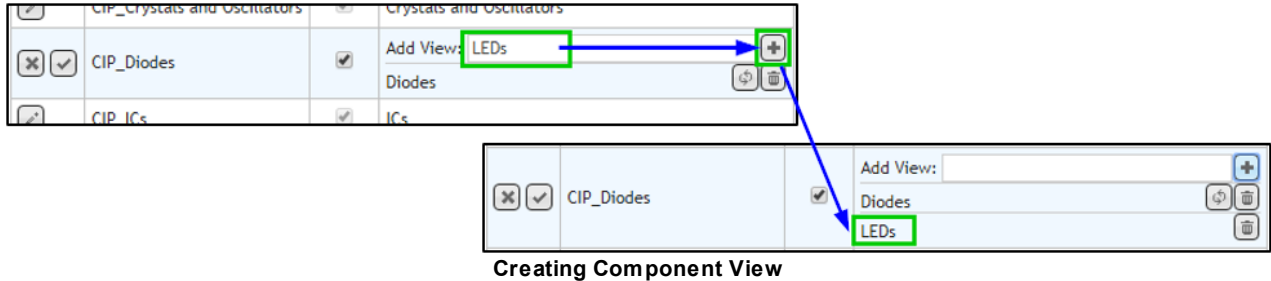
Default CIP Tables and Component Views


To create a new Component View

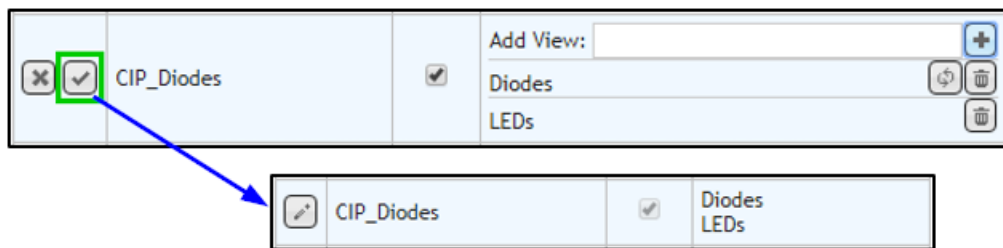
1. Click the **Edit**  button next to the table name from which to create the new view.

	CIP_Diodes	<input checked="" type="checkbox"/>	Diodes
	CIP_ICs	<input checked="" type="checkbox"/>	ICs

2. Enter a name for the view in the **Add View** field and click the  button to create the Component View. The example below shows the view name, LEDs, is entered into the Add View field of the CIP_Diodes table.




3. Click the **Save**  button when you have finished adding your views to the selected table.



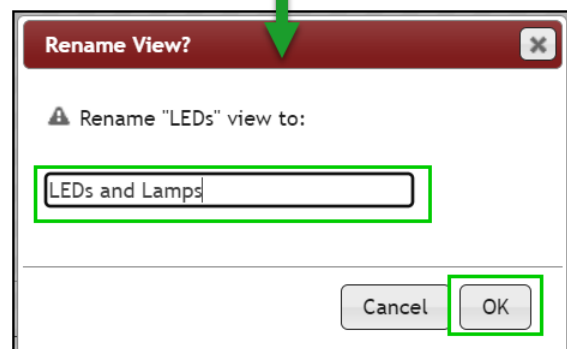
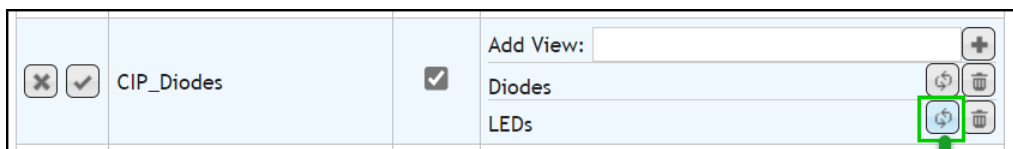
Once you've created a new component view, you can optionally begin to [add](#), [import](#), or [move](#) parts into it.

To rename a Component View

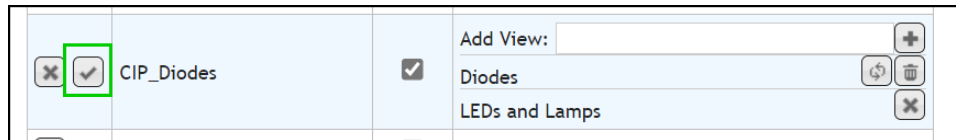
1. Click the **Edit**  button next to the table name with the view that you want to remove.



2. Click the **Rename**  button next to the view you want to rename.



- Click the **Save** button to complete the rename.

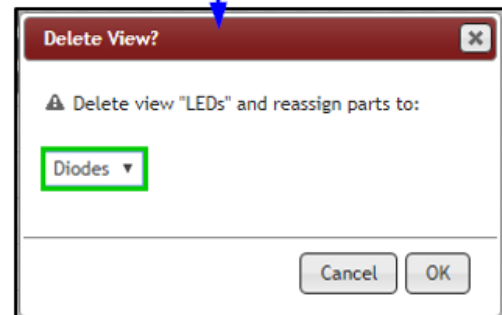
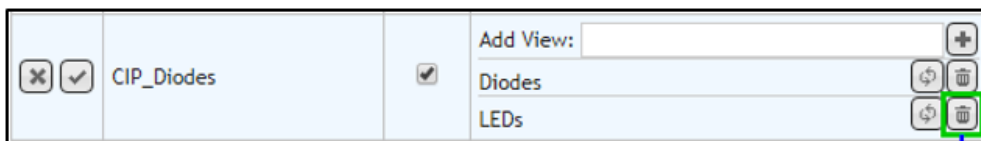


To remove Component Views - Remove a single view

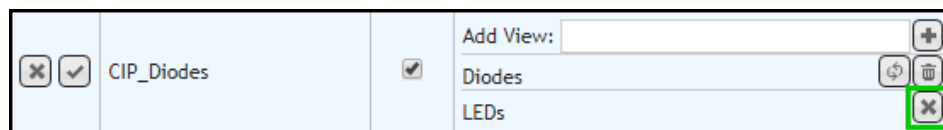
- Click the **Edit** button next to the table name with the view that you want to remove.



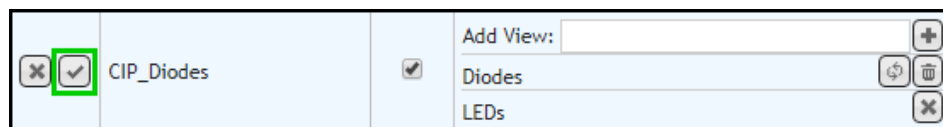
- Click the **Delete** button next to the view you want to remove. You will need to select a new view to move all parts into before deleting the view, as shown in the following figure, then click **OK**.



- You may still cancel and restore the view by clicking the **Restore View** button.




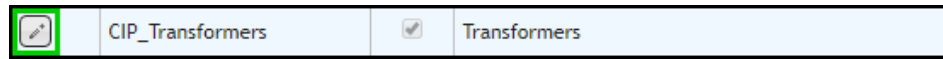
- Click the **Save** button to complete the deletion and part reassignment.



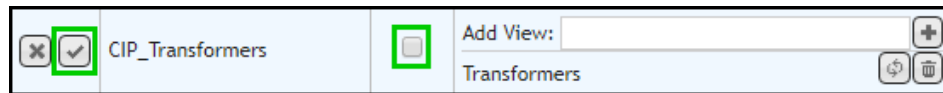
To remove Component Views - Disable a table

If you have a table you do not want to use in CIP, you can disable it. Any views and parts derived from the disabled table will be disabled and hidden, but not be deleted.

1. Click the **Edit**  button next to the table name that you want to disable.



2. Deselect the **Enable** checkbox and click the **Save**  button. Any parts in the table remain but the table is disabled.



3.3.2 Customizable Fields

Privileged users may configure up to 75 customizable fields (UserFieldXX) and 5 numerical fields (NUserFieldXX) per component view, 5 customizable component manufacturer fields, and 30 customizable manufacturer part fields. Unused customizable fields will not display on Part Information pages.

In addition to customizing fields, [fields to be transferred for design](#) are configured in this tab of the **Admin > Configuration** menu item.

Note: You need to enable a field in this section to make it visible to a CIP user. Enabling, disabling, or renaming a display field in component views, component manufacturer parts, or manufacturer parts will require a new or updated CIS .DBC file for use with Capture CIS. Review the [Appendix](#) for instructions to create or update the CIP/CIS .DBC file.

The following Views can be customized:

- [Customize Component Fields](#) – Each of the enabled **Component Views** are listed. Selecting a specific view shows parametric data fields available for each company part number. Fields may be saved per view or across all views. Fields include many parametric fields and user fields (UserFieldXX).
- [Component to Manufacturer Parts](#) – The **Component Manufacturer Parts** allows unique relationships between the company part number and associated manufacturer part. For example, you may want to identify a manufacturer part as a preferred part for one company part number and an alternate source for a different company part number.
- [Manufacturer Part Info](#) – The **Manufacturer Part Info** identifies all fields for manufacturer parts. Configurable fields include Manufacturer PN Status, Datasheet, and various compliance fields. User fields (M_UserFieldXX) are also available.
- [Distributor Part Info](#) – The **Distributor Part Info** identifies fields for distributor parts. Configurable fields include Distributor, Distributor PN, Quantity, Cost, Unit Price, and Data Last Updated. User fields (D_UserFieldXX) are also available.
- [BOMs](#) – The **BOMs** section identifies fields for BOM part numbers. Configurable fields include Description, Revision, Build/Buy, Variant, Cost, Part Type, and Company Part Status. User fields (B_UserFieldXX) are also available.
- [BOMItems](#) – **BOM Items** section identifies fields used for items that are associated to BOM part numbers. Configurable fields include RefDes, Unit, Cost, Build/Buy, Reuse Module,

Reuse Module Revision, and Reuse Module RefDes. User fields (BI_UserFieldXX) are also available. **Note:** You may disable the reuse module fields for BOM Items if disabling the reuse module view.

- [Reuse Modules](#) – The **Reuse Modules** section identifies fields for Reuse Modules part numbers. Configurable fields include Description, Revision, Variant, Schematic Part, Part Type, Design File, and REUSE_MODULE. User fields (UserFieldXX) are also available.

Navigate to the **Admin > Configuration > Customizable Fields** tab. From there, select an item from the **Views** drop-down list that provides access to the configured component views (Capacitors, Connectors, etc.), component manufacturer parts, manufacturer part, distributor part, BOMs, and BOMItems.

Enabled	Display Name	Display Type	Edit Type	Pick List Values	Default	Track History	TMP Required Field	Formal Required Field
<input checked="" type="checkbox"/>	PART_NUMBER	Text	Text			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Part Type	Text	Text		Unassigned Part Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Description	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Value	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	PCB Footprint	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Schematic Part	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	System Capture Part	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Number of Pins	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Operating Temperature Maximum	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Operating Temperature Minimum	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Package Size	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Package Height	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Package Type	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Company Part Status	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Dielectric Type	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Equivalent Series Resistance	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Temperature Coefficient	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Tolerance	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Rated Voltage	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Select Table For Customizable Fields

In addition to selecting a View, you can optionally select the Field Filter Options to more easily review and update the list of configured fields. The **Field Filter** drop-down list allows you to filter on All Fields, User Fields, Non-User Fields, and Aliased Fields. The **Enabled Fields Only** check box allows you to show enabled and disabled fields or hide disabled fields.

Field ID	Enabled	Display
<input checked="" type="checkbox"/> PART_NUMBER		Text
<input checked="" type="checkbox"/> Part Type		Text
<input checked="" type="checkbox"/> Description		Text
<input checked="" type="checkbox"/> Value		Text

All Fields for Capacitors

- **Field Filter drop-down list**
 - **All Fields** – displays all fields for the selected View. This is the default.
 - **User Fields** – displays User Fields (UserFieldXX), whether aliased or not.
 - **Non-User Fields** – displays Non-User Fields (e.g. Description, Value, etc.).
 - **Aliased Fields** – displays all Aliased Fields, both User Fields and Non-User Fields.
 - **Enabled Fields Only check box** – Select this option to show only Enabled fields. Deselect it to show Enabled and Disabled fields.

Below are examples showing some combinations of the Field Filter Options.

Field ID	Enabled	Display Name	Display Type	Edit Type	Pick List Value
UserField01	<input checked="" type="checkbox"/>	High Ripple Current	Text	Text	
UserField02	<input checked="" type="checkbox"/>	Endurance	Text	Text	
UserField03	<input type="checkbox"/>	Aliased but disabled	Text	Text	
UserField04	<input type="checkbox"/>	UserField04	Text	Text	

All User Fields for Capacitors

Field ID	Enabled	Display Name	Display Type	Edit Type	Pick List Value
UserField01	<input checked="" type="checkbox"/>	High Ripple Current	Text	Text	
UserField02	<input checked="" type="checkbox"/>	Endurance	Text	Text	

Enabled User Fields for Capacitors

Views: Capacitors | Aliased Fields | Enabled Fields Only

	Field ID	Enabled	Display Name	Display Type	Edit Type	Pick List Value
	Number of Pins	<input checked="" type="checkbox"/>	Pins	Text	Text	
	UserField01	<input checked="" type="checkbox"/>	High Ripple Current	Text	Text	
	UserField02	<input checked="" type="checkbox"/>	Endurance	Text	Text	
	UserField03	<input type="checkbox"/>	Aliased but disabled	Text	Text	

All Aliased Fields for Capacitors

Views: Capacitors | Aliased Fields | Enabled Fields Only

	Field ID	Enabled	Display Name	Display Type	Edit Type	Pick List Value
	Number of Pins	<input checked="" type="checkbox"/>	Pins	Text	Text	
	UserField01	<input checked="" type="checkbox"/>	High Ripple Current	Text	Text	
	UserField02	<input checked="" type="checkbox"/>	Endurance	Text	Text	

Enabled Aliased Fields for Capacitors

Once a desired **View** and **Field Field Options** are selected, you may begin to enable custom User Fields or change the Display Name of pre-configured fields. Most view fields are configured the same way, though some core fields such as PART_NUMBER have specific options that cannot be changed.





You can configure the following characteristics of a customized field:

- **Enabled** – Checking or unchecking the checkbox changes whether you can select the field in [Component Views](#). There are 50 user fields that may be added to the components or manufacturer table. There are 5 numerical user fields that may also be added to the components tables. Only numbers may be entered to the numerical user fields. When you use CIS Explorer, the numerical user fields sort numerically.
- **Display Name** – Changing the display name will change the appearance of the field name inside CIP.
- **Display Type** – The display type changes the appearance of the data associated with the field. The options allowed are Text or Link. This controls whether the data is to be shown as hyperlink or plain text.
- **Edit Type** – The edit type controls whether the user is to manually enter the data or choose data from a pick list.
- **Pick List Values** – The values that are available for a user to choose from must be configured. Users will only be able to select options in the pick list values when they create parts.
- **Default** – The default value is the initial value of the data when a new part is created. Default values can be specified for Edit Types of Text or Pick List. Numeric user defined fields can be assigned a default numeric value.

- **Track History** – The default for each field is enabled for tracking of history. However, for a configured field that may be updated often, e.g. quantity, you may want to exclude from history.
- **TMP Required Field** – The TMP Required Field controls whether the field is mandatory when creating or modifying a TMP part. This control is only available for the component fields. The Part Number and Implementation Type fields are always mandatory and may not be changed, though you can disable the Implementation Type field if it will not be used.
- **Formal Required Field** – The Formal Required Field controls whether the field is mandatory when creating or modifying a Formal (i.e. non-TMP) part. This control is only available for the component and BOMs fields. The Part Number and Implementation Type fields are always mandatory and may not be changed, though you can disable the Implementation Type field if it will not be used.

Note: TMP and Formal required fields are only enforced using the new, edit, and copy part forms. They are not enforced when using Compliance Search, Distributor Search, Import, or external integrations.

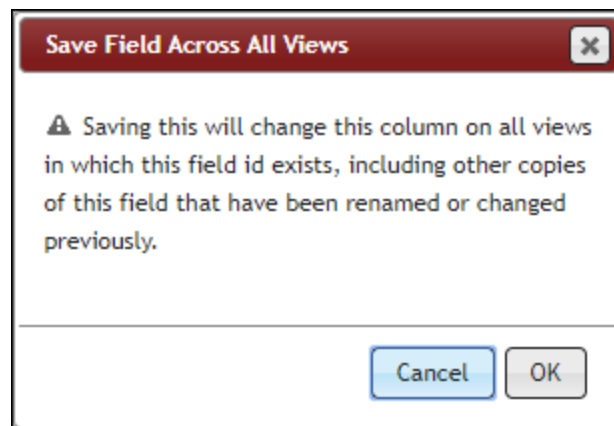
3.3.2.1 Customize Component Fields

Each field of a component view may be changed individually or across all views that share the same Field ID. To customize a field, select the **Edit** button  and modify the desired fields. After making updates, click the **Save** button  to save your changes or the **Cancel** button  to discard them. To save the field across all part views, click the **Save All** button . When using the save all option, a pop-up window will appear to confirm the change.



The following figure is a sample view named Capacitors, derived from the CIP_Capacitors table, that shows fields that can be modified.

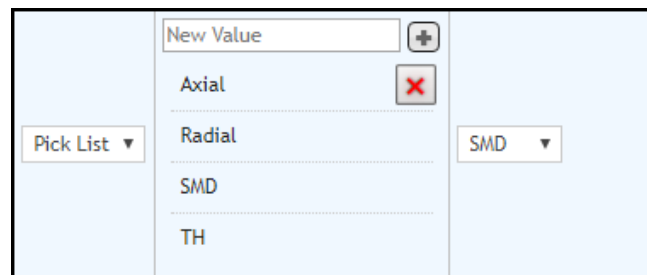
Field ID	Enabled	Display Name	Display Type	Edit Type	Pick List Values	Default	Track History	TMP Required Field	Formal Required Field
PART_NUMBER	<input checked="" type="checkbox"/>	PART_NUMBER	Text	Text			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Part Type	<input checked="" type="checkbox"/>	Part Type	Text	Text		Unassigned Part Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Description	<input checked="" type="checkbox"/>	Description	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Value	<input checked="" type="checkbox"/>	Value	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCB Footprint	<input checked="" type="checkbox"/>	PCB Footprint	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Schematic Part	<input checked="" type="checkbox"/>	Schematic Part	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Number of Pins	<input checked="" type="checkbox"/>	Number of Pins	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operating Temperature Maximum	<input checked="" type="checkbox"/>	Operating Temperature Maximum	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operating Temperature Minimum	<input checked="" type="checkbox"/>	Operating Temperature Minimum	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Package Size	<input checked="" type="checkbox"/>	Package Size	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Package Height	<input checked="" type="checkbox"/>	Package Height	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Package Type	<input checked="" type="checkbox"/>	Package Type	Text	Pick List	Axial Radial SMD TH	SMD	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Company Part Status	<input checked="" type="checkbox"/>	Company Part Status	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sample Capacitors Customizable Field Options



Save Field Across All Component/Part Views

Select or deselect the **Enabled** checkbox to add or remove a field from a view. You may alter the Display Name column to change the way the field name appears in CIP. After choosing the Display Name, select the Display Type, which can be Text (standard) or Link (recognized as active hyperlinks). You may define a field's Edit Type as user editable Text or Pick List. If you select Pick List, you need to enter the Pick List values. To add values to your pick list, type in the text box, then hit Enter key or click the **Add** button . Click and drag a pick list value to change the sequence of the pick list. To remove a value from the list, hover over the item on the list and click the **Remove** button, . If you want the pick list to have an initial default value when new parts are created, you can select from the list after you have added all your pick list values.



Sample Pick List Configuration





If you want to exclude field modifications from the [Part History](#), you can disable Track History by de-selecting the check mark. This removes the field from the [Part History](#). Repeat this process for each field you want to customize. Fields that change frequently should have history tracking disabled to keep history to a manageable size.

If you want to make a field mandatory when a TMP part is created or modified, you can enable the **TMP Required Field** by selecting the checkbox. Users will not be able to create or change a TMP part without populating the field.

If you want to make a field mandatory when a formal part is created, modified or converted from a TMP part, you can enable the **Formal Required Field** by selecting the checkbox. Users will not be able to create or change a formal part without populating the field.

Note: TMP and Formal required fields are only enforced using the new, edit, and copy part forms. They are not enforced when using Compliance Search, Distributor Search, Import, or external integrations.

The following figure shows a sample configuration for the Capacitors view. UserField01 and UserField02 are highlighted in green to provide an example of user-defined fields.

Views		Capacitors		User Fields		<input type="checkbox"/> Enabled Fields Only			
Field ID	Enabled	Display Name	Display Type	Edit Type	Pick List Values	Default	Track History	TMP Required Field	Formal Required Field
 UserField01	<input checked="" type="checkbox"/>	High Ripple Current	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 UserField02	<input checked="" type="checkbox"/>	Endurance	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 UserField03	<input type="checkbox"/>	UserField03	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 UserField04	<input type="checkbox"/>	UserField04	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Capacitors View Customization Sample

After you configure the Customizable Fields, navigate to the appropriate Component View. From there, you may View or Edit any field included in that View. The custom fields will also appear in the **CIS DB Search**, under the **Parametric Field** drop-down list.

Component Details	
PART_NUMBER	EMA-00000124V22
Description	CAP, Ceramic, SMD, 0.01 uF, 10 %, 50 V, 0603
PCB Footprint	CAPC1608X87N
Number of Pins	2
Operating Temperature Minimum	-55 C
Package Height	0.87 mm
Company Part Status	
Equivalent Series Resistance	
Tolerance	10%
Implementation	
PSPICE Template	C:@REFDES %1 %2 C:@REFDES 0.01uF \n.model C:@REFDES CAP C=1 DEV=0.1
High Ripple Current	7.7 A @ 100Hz
CLASS	DISCRETE
STEP_MODEL	
Last Modified By	Admin
Part Type	EMA\Ceramic\SMD\0603
Value	0.01uF
Schematic Part	CAPACITORS\CAP
Operating Temperature Maximum	125 C
Package Size	0603
Package Type	SMD
Dielectric Type	Ceramic
Temperature Coefficient	X7R
Rated Voltage	50 V
Implementation Type	<none>
Device Type	
Endurance	8500 hrs
ALT_SYMBOLS	
Last Modified	Aug 26 2021 11:31AM

Custom Fields Shown in a Capacitor Part Data

Search

Search
Part Type
History Search

Component View: Capacitors

(	Parametric Field	Operator	Parameter	)	Condition	Order	Add/Remove
+ -	PART_NUMBER	Contains		+ -		▲ ▼	+ -
	<div style="border: 1px solid gray; padding: 2px;"> <ul style="list-style-type: none"> CLASS Company Part Status Description Device Type Dielectric Type <li style="border: 1px solid green; padding: 2px;">Endurance Equivalent Series Resistance <li style="border: 1px solid green; padding: 2px;">High Ripple Current Implementation Implementation Type Last Modified Last Modified By </div>						

Save a Search

Name Global Save

Custom Fields In CIS DB Search

Note: When you modify or enable the display name of a field and update the field in the Component View, CIS users who use CIS Explorer or Part Manager are affected. The CIS .DBC file will also need to be updated as explained in the [Appendix](#).

3.3.2.2 Customize Component Manufacturer Part Fields

Configuring component manufacture part information is completed the same way the [fields for manufacturer parts](#) are configured and customized. History tracking may be disabled to reduce the size of database growth. Required field settings are not available for Component Manufacturer Part fields.

The Component Manufacturer Parts fields can be used for various purposes. The bullet list below provides some examples.

- The "In PLM" field can be used to indicate whether a manufacturer part is associated with the specific company part in your PLM or ERP system.
- If you have manufacturer parts that need to be associated with multiple company part numbers and you need to set different property values (e.g. Preferred Status) for each, you may configure a field for this purpose.

The following figure shows the default settings for the Component Manufacturer Parts fields.

	Field ID	Enabled	Display Name	Display Type	Edit Type	Pick List Values	Default	Track History
	In PLM	<input type="checkbox"/>	In PLM	Text	Text			<input checked="" type="checkbox"/>
	CM_UserField01	<input type="checkbox"/>	CM_UserField01	Text	Text			<input checked="" type="checkbox"/>
	CM_UserField02	<input type="checkbox"/>	CM_UserField02	Text	Text			<input checked="" type="checkbox"/>
	CM_UserField03	<input type="checkbox"/>	CM_UserField03	Text	Text			<input checked="" type="checkbox"/>
	CM_UserField04	<input type="checkbox"/>	CM_UserField04	Text	Text			<input checked="" type="checkbox"/>
	CM_UserField05	<input type="checkbox"/>	CM_UserField05	Text	Text			<input checked="" type="checkbox"/>

Customize Fields for Component Manufacturer Parts

To customize a field, click the **Edit** button . After making your updates, select the **Save** button to save your changes or the **Cancel** button to discard them.

3.3.2.3 Customize Manufacturer Part Fields

Manufacturer Part Info fields can be modified individually. To customize a field, click the **Edit** button next to the desired Field ID. After you complete your updates, select the **Save** button to save your changes or the **Cancel** button to discard them. History tracking may be disabled to reduce the size of database growth. Required field settings are not available for Manufacturer Part fields.

Field ID	Enabled	Display Name	Display Type	Edit Type	Pick List Values	Default	Track History
Manufacturer	<input checked="" type="checkbox"/>	Manufacturer	Text	Text			<input checked="" type="checkbox"/>
Manufacturer PN	<input checked="" type="checkbox"/>	Manufacturer PN	Text	Text			<input checked="" type="checkbox"/>
Manufacturer PN Status	<input checked="" type="checkbox"/>	Manufacturer PN Status	Text	Text			<input checked="" type="checkbox"/>
Datasheet	<input checked="" type="checkbox"/>	Datasheet	Link	Text			<input checked="" type="checkbox"/>
RoHS Compliant	<input checked="" type="checkbox"/>	RoHS Compliant	Text	Text			<input checked="" type="checkbox"/>
Image	<input checked="" type="checkbox"/>	Image	Link	Text			<input checked="" type="checkbox"/>
Always RoHS Compliant	<input checked="" type="checkbox"/>	Always RoHS Compliant	Text	Pick List	New Value		<input checked="" type="checkbox"/>
Date of RoHS Compliance	<input type="checkbox"/>	Date of RoHS Compliance	Text	Text			<input checked="" type="checkbox"/>

Customize Fields for Manufacturer Parts - Editing a Field

To show the list of manufacturer fields that are specific to Silicon Expert in the Compliance Module, select the **SiliconExpert Fields** filter.

Field ID	Enabled	Display Name
Manufacturer	<input checked="" type="checkbox"/>	Manufacturer

Note: Enabling, disabling, or renaming a display field from Manufacturer Part Info or Distributor Part Info will also affect the way the manufacturer/relational view appears for Capture CIS users. This will require a new CIS .DBC file to display correctly. Review the [Appendix](#) for instructions to create a new CIP/CIS .DBC file. Consult your OrCAD Capture CIS User Guide for additional information regarding the CIS .DBC file.

3.3.2.4 Customize Distributor Part Fields

User configuration of distributor part information is similar to the configuration and customization of [manufacturer part fields](#). History tracking and required fields settings are not available for Distributor Part fields.

Distributor part fields are automatically populated when temp parts are added from either the [distributor search](#) or [distributor sync](#).

You can modify a field display name without changing the purpose of the field. For example, you can change the name of the "Cost" field to "Quantity" and vice versa, while the type of data that automatically populates the fields remains the same.

Views Distributor All Fields Enabled Fields Only

	Field ID	Enabled	Display Name	Display Type	Edit Type	Pick List Values	Default
	Distributor	<input checked="" type="checkbox"/>	Distributor	Text	Text		
	Distributor PN	<input checked="" type="checkbox"/>	Distributor PN	Text	Text		
	Quantity	<input checked="" type="checkbox"/>	Quantity	Text	Text		
	Cost	<input checked="" type="checkbox"/>	Cost	Text	Text		
	Unit Price	<input checked="" type="checkbox"/>	Unit Price	Text	Text		
	D_UserField01	<input type="checkbox"/>	D_UserField01	Text	Text		
	D_UserField02	<input type="checkbox"/>	D_UserField02	Text	Text		
	D_UserField03	<input type="checkbox"/>	D_UserField03	Text	Text		
	D_UserField04	<input type="checkbox"/>	D_UserField04	Text	Text		
	D_UserField05	<input type="checkbox"/>	D_UserField05	Text	Text		

Customize Fields for Distributor Parts












To customize a field, click the **Edit** button . After making your updates, select the **Save** button to save your changes or the **Cancel** button to discard them.

3.3.2.5 Customize BOMs Fields




The BOMs table identifies fields for BOM part numbers. There are 30 customizable fields you may use for BOM parts. BOM fields are configured the same way [component part fields](#) are configured. You may configure fields to be mandatory when creating and editing BOMs.

Default fields for BOMs include Description, Revision, Build/Buy, Variant, Cost, and Company Part Status. Although the Revision and Variant field names may be modified, the purpose of these fields remains unchanged. When you conduct a search for BOMs, the search results include the BOM part number, revision, and variant name.

Note: The **Last Modified** and **Last Modified By** fields are not shown in the Customizable Fields configuration, but are always shown when viewing BOMs and are updated each time a BOM is saved.

Field ID	Enabled	Display Name	Display Type	Edit Type	Pick List Values	Default	Formal Required Field
 PART_NUMBER	<input checked="" type="checkbox"/>	PART_NUMBER	Text	Text			<input checked="" type="checkbox"/>
 Description	<input checked="" type="checkbox"/>	Description	Text	Text			<input type="checkbox"/>
 Revision	<input checked="" type="checkbox"/>	Revision	Text	Text			<input checked="" type="checkbox"/>
 Build/Buy	<input checked="" type="checkbox"/>	Build/Buy	Text	Text			<input type="checkbox"/>
 Variant	<input checked="" type="checkbox"/>	Variant	Text	Text			<input type="checkbox"/>
 Cost	<input checked="" type="checkbox"/>	Cost	Text	Text			<input type="checkbox"/>
 Part Type	<input type="checkbox"/>	Part Type	Text	Text			<input type="checkbox"/>
 Company Part Status	<input checked="" type="checkbox"/>	Company Part Status	Text	Text			<input type="checkbox"/>
 B_UserField01	<input type="checkbox"/>	B_UserField01	Text	Text			<input type="checkbox"/>
 B_UserField02	<input type="checkbox"/>	B_UserField02	Text	Text			<input type="checkbox"/>
 B_UserField03	<input type="checkbox"/>	B_UserField03	Text	Text			<input type="checkbox"/>

Customize Fields for BOMs

To customize a field, click the **Edit** button . After making your updates, select the **Save** button  to save your changes or the **Cancel** button  to discard them.

3.3.2.6 Customize BOM Item Fields

BOM Items identify fields associated to BOM part numbers. BOM Item fields are configured and updated the same way the [fields for manufacturer parts](#) are configured and updated. History tracking and required fields settings are unavailable for BOM Item fields.

Default fields include RefDes, Unit, Build/Buy, Cost, Reuse Module, Reuse Module Revision, and Reuse Module RefDes. Although the RefDes field names can be modified, the field must be used for reference designators of your parts list. The following figure shows the default settings for the BOMItems table.

Note: The **Last Modified** and **Last Modified By** fields are not shown in the Customizable Fields configuration, but are always shown when viewing BOM Items and are updated each time BOM Items are saved.

Component Views		Customizable Fields	Reorder View Fields	Email Notifications	Incremental Part Number	Manufacturer Part Status Indicator	Other
Views	BOMItems	All Fields	<input type="checkbox"/> Enabled Fields Only				
	Field ID	Enabled	Display Name	Display Type	Edit Type	Pick List Values	Default
	RefDes	<input checked="" type="checkbox"/>	RefDes	Text	Text		
	Unit	<input checked="" type="checkbox"/>	Unit	Text	Text		
	Build/Buy	<input checked="" type="checkbox"/>	Build/Buy	Text	Text		
	Cost	<input checked="" type="checkbox"/>	Cost	Text	Text		
	Reuse Module	<input checked="" type="checkbox"/>	Reuse Module	Text	Text		
	Reuse Module Revision	<input checked="" type="checkbox"/>	Reuse Module Revision	Text	Text		
	Reuse Module RefDes	<input checked="" type="checkbox"/>	Reuse Module RefDes	Text	Text		
	BI_UserField01	<input type="checkbox"/>	BI_UserField01	Text	Text		
	BI_UserField02	<input type="checkbox"/>	BI_UserField02	Text	Text		
	BI_UserField03	<input type="checkbox"/>	BI_UserField03	Text	Text		

Customize Fields for BOM Items

To customize a field, click the **Edit** button . After making your updates, select the **Save** button to save your changes or the **Cancel** button to discard them.




3.3.2.7 Customize Reuse Modules Fields

The Reuse Modules view identifies fields for Reuse Modules part numbers. There are 75 customizable fields available for Reuse Modules parts. Reuse Modules fields are configured the same way [component part fields](#) are configured. You may configure fields to be mandatory when creating and editing Reuse Modules.

Default fields for Reuse Modules include Revision, Description, Value, Schematic Part, Part Type, Design File, and REUSE_MODULE.

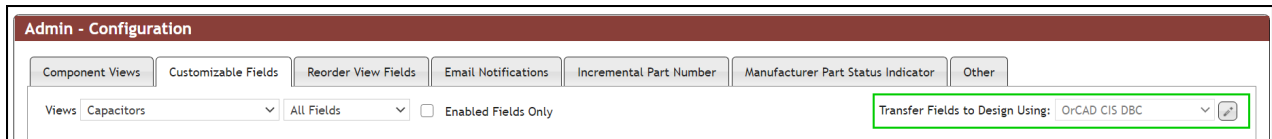
Views		Reuse Modules	All Fields	<input type="checkbox"/> Enabled Fields Only				
	Field ID	Enabled	Display Name	Display Type	Edit Type	Pick List Values	Default	Formal Required Field
	PART_NUMBER	<input checked="" type="checkbox"/>	PART_NUMBER	Text	Text			<input checked="" type="checkbox"/>
	Revision	<input checked="" type="checkbox"/>	Revision	Text	Text			<input checked="" type="checkbox"/>
	Description	<input checked="" type="checkbox"/>	Description	Text	Text			<input type="checkbox"/>
	Value	<input checked="" type="checkbox"/>	Value	Text	Text			<input type="checkbox"/>
	Schematic Part	<input checked="" type="checkbox"/>	Schematic Part	Text	Text			<input type="checkbox"/>
	Part Type	<input checked="" type="checkbox"/>	Part Type	Text	Text		Unassigned Part Type	<input type="checkbox"/>
	Design File	<input checked="" type="checkbox"/>	Design File	Text	Text			<input type="checkbox"/>
	REUSE_MODULE	<input checked="" type="checkbox"/>	REUSE_MODULE	Text	Text			<input type="checkbox"/>
	UserField01	<input type="checkbox"/>	UserField01	Text	Text			<input type="checkbox"/>
	UserField02	<input type="checkbox"/>	UserField02	Text	Text			<input type="checkbox"/>
	UserField03	<input type="checkbox"/>	UserField03	Text	Text			<input type="checkbox"/>

Customize Fields for Reuse Modules


To customize a field, click the **Edit** button . After making your updates, select the **Save** button  to save your changes or the **Cancel** button  to discard them.

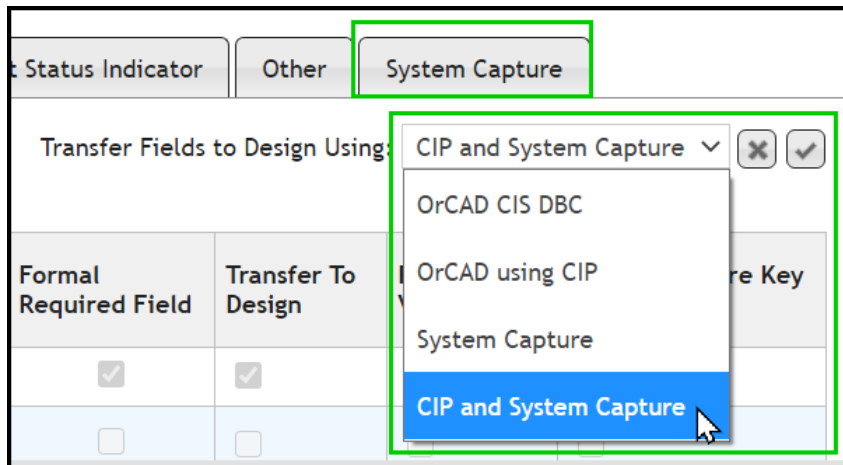
3.3.2.8 Configure Transfer Fields to Design

There are four settings available for **Transfer Fields to Design Using**.



- **OrCAD CIS DBC** - This is the default out of the box configuration. When placing parts from CIP, the CIP OrCAD client plug-in will use the DBC file configured in CIS Configuration to determine the fields that will be transferred to the design. With this setting, your Capture.ini file must contain the Configuration File path and name. The CIP Client Installation Guide includes information to help you set up your Capture.ini file. With this configuration, the **Schematic Part** (OrCAD Symbol name) field is enabled for use with Capture CIS. The **System Capture Part** field is disabled as well as the System Capture Tab.
- **OrCAD Using CIP** - When placing parts from CIP, the CIP OrCAD client plug-in will transfer fields configured in the Customizable Fields tab. The DBC file will not be used by the OrCAD Client plug-in. With this configuration, the **Schematic Part** (OrCAD Symbol name) field is enabled for use with Capture CIS. Transfer to Design and Property Visibility columns are enabled for configuration. The **System Capture Part** field is disabled as well as the System Capture Tab.
- **System Capture** - When placing parts from CIP, the CIP System Capture client plug-in will transfer fields configured in the Customizable Fields tab. With this configuration, the **System Capture Part** field is enabled for use with System Capture. The **System Capture** tab is enabled. **Transfer to Design, Property Visibility** and **System Capture Key Property** columns are enabled for configuration. The **Schematic Part** (OrCAD Symbol name) field is disabled. Configured fields will be added to the PTF file during generation.
- **CIP and System Capture** - When placing parts from CIP, both CIP System Capture and OrCAD client plug-ins will transfer fields configured in the Customizable Fields tab. With this configuration, the System Capture Part Field is enabled for use with System Capture. The **System Capture** tab is enabled. **Transfer to Design, Property Visibility** and **System Capture Key Property** columns are enabled for configuration. Configured fields will be added to the PTF file during generation. Both **Schematic Part** and **System Capture Part** fields are enabled.

To change the **Transfer Fields to Design Using** settings, click on the **Edit**  button. When the **System Capture** or the **CIP and System Capture** options are selected, the **System Capture** tab will appear.



Click the **Save** button to start configuring **Transfer to Design**, **Property Visibility** and **System Capture Key Property** settings.

Field ID	Enabled	Display Name	Display Type	Edit Type	Pick List Values	Default	Track History	TMP Required Field	Formal Required Field	Transfer To Design	Property Visibility	System Capture Key Property
<input checked="" type="checkbox"/> PART_NUMBER	<input checked="" type="checkbox"/>	PART_NUMBER	Text	Text			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Part Type	<input checked="" type="checkbox"/>	Part Type	Text	Text		Unassigned Part Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Description	<input checked="" type="checkbox"/>	Description	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Value	<input checked="" type="checkbox"/>	Value	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> PCB Footprint	<input checked="" type="checkbox"/>	PCB Footprint	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Schematic Part	<input checked="" type="checkbox"/>	Schematic Part	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> System Capture Part	<input checked="" type="checkbox"/>	System Capture Part	Text	Text			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Views: Capacitors | All Fields | Enabled Fields Only | Transfer Fields to Design Using: CIP and System Capture

Enabled when selected options include CIP or System Capture.

Enabled when selected option includes System Capture.

Fields are automatically enabled when configuring Transfer Fields to Design Using Option.

To customize a field, select the **Edit** button and modify the desired fields.

If you want to transfer the value of a field to the symbol when placing a part, you can enable the **Transfer to Design** by selecting the checkbox.

If you want the value of a field to be visible after being placed onto a design, you can enable the **Property Visibility** by selecting the checkbox.

For System Capture Parts, if you want make a field a key property, you can enable the **System Capture Key Property** by selecting the checkbox. CIP will generate the PTF file with fields with this designation as key properties.

3.3.3 Reorder View Fields

The appearance of fields in the Component Views within the CIP Web interface may be arranged using **Admin > Configuration > Reorder View Fields**. Each of the views are configurable separately. The fields in the Component

Manufacturer Part Info and Manufacturer Part Info can also be reordered. Groups can be created and named for for each individual component view. When multiple groups exist, you can drag and drop the fields to arrange the position of the fields. You can also drag and drop the groups to change their order. Click anywhere on the non-text portion of the header to collapse/expand a group's field list.

Views:

Add Group:

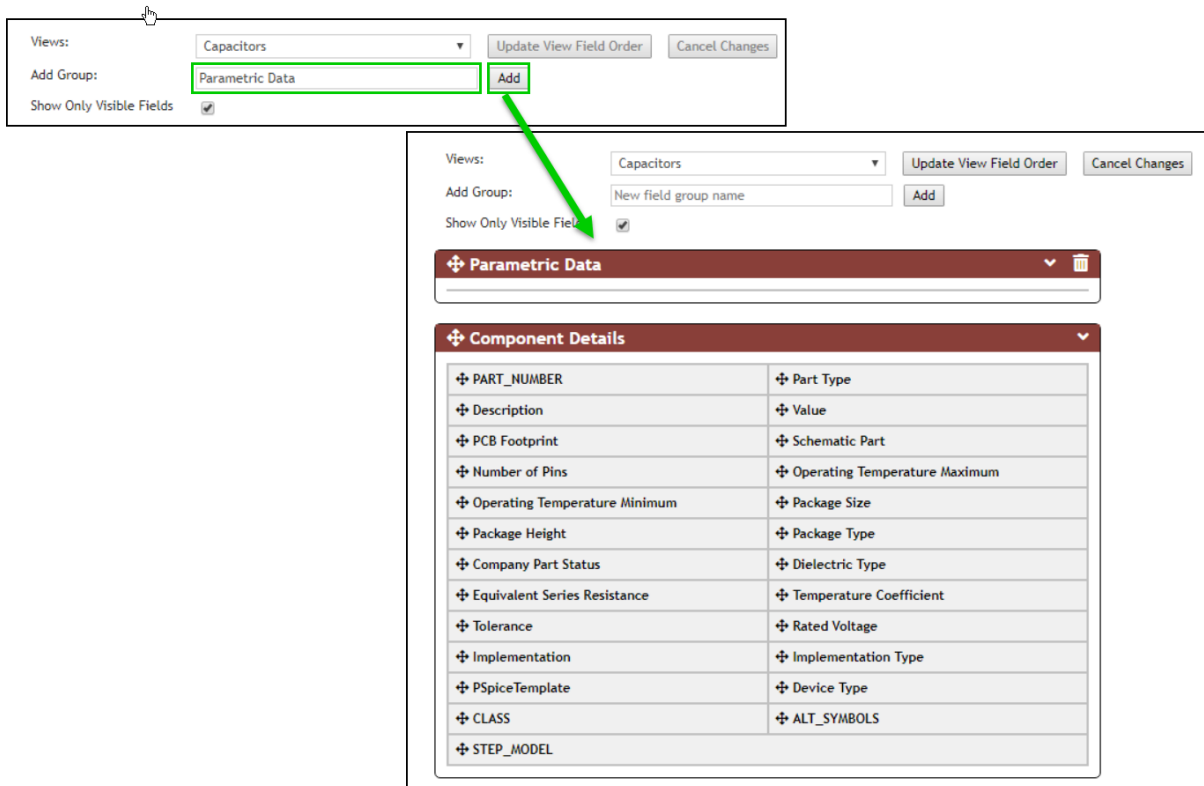
Show Only Visible Fields

Component Details			
+	PART_NUMBER	+	Part Type
+	Description	+	Value
+	PCB Footprint	+	Schematic Part
+	Number of Pins	+	Operating Temperature Maximum
+	Operating Temperature Minimum	+	Package Size
+	Package Height	+	Package Type
+	Company Part Status	+	Dielectric Type
+	Equivalent Series Resistance	+	Temperature Coefficient
+	Tolerance	+	Rated Voltage
+	Implementation	+	Implementation Type
+	PSpiceTemplate	+	Device Type
+	CLASS	+	ALT_SYMBOLS
+	STEP_MODEL		

Default Field Order for Capacitors View

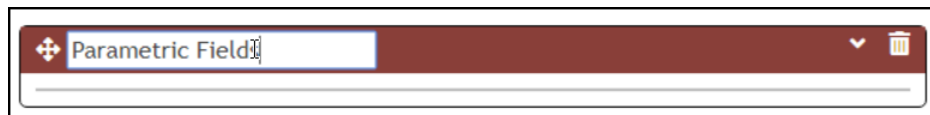
To Create a Field Group:

1. Enter a new group name next to **Add Group** and click on the **Add** button.



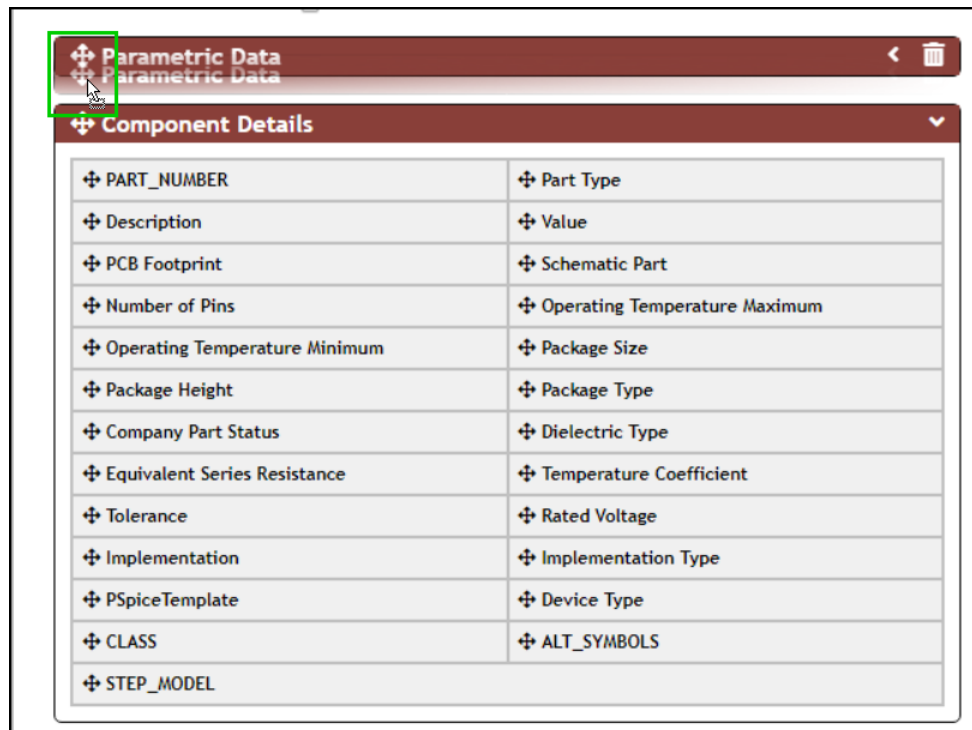
Add Group Example

- Continue to add groups as desired. Group names may be changed by clicking on the name and updating it, as shown in the following sample figure.



Change Group Name Example

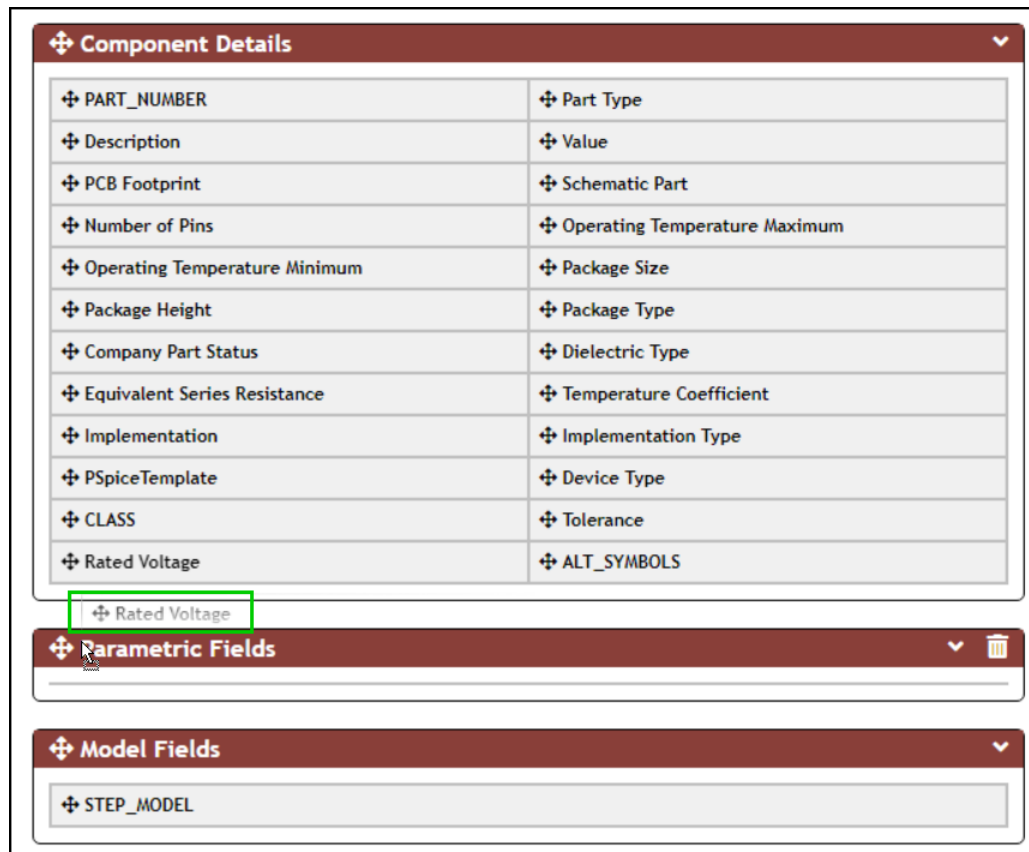
- To adjust the group order, click the **Move**  icon, then drag and drop to the desired location as shown in the following example.



Move Group Example

To Change field order:

1. To adjust the field order, click the **Move**  icon, then drag and drop to the desired location as shown in the following sample figure.



Move Field Example

2. Click the **Update View Field Order** button to save all changes.

Views:

Add Group:

Show Only Visible Fields

Component Details

✚ PART_NUMBER	✚ Part Type
✚ Description	✚ Value
✚ Company Part Status	✚ PCB Footprint
✚ Schematic Part	✚ ALT_SYMBOLS
✚ Number of Pins	✚ Operating Temperature Maximum
✚ Package Size	✚ Operating Temperature Minimum
✚ Package Height	✚ Package Type

Parametric Fields

✚ Rated Voltage	✚ Dielectric Type
✚ Equivalent Series Resistance	✚ Temperature Coefficient
✚ Device Type	✚ Tolerance

Model Fields

✚ STEP_MODEL	✚ Implementation
✚ PSpiceTemplate	✚ Implementation Type
✚ CLASS	

Sample of New Order for Capacitors

Select a component in the newly configured component view to see the updated order. The following figure shows the example of the updated Capacitors View.

Component Details	
PART_NUMBER	EHA-0000124V22
Description	CAP, Ceramic, SMD, 0.01 uF, 10 %, 50 V, 0603
Company Part Status	
Schematic Part	CAPACITORS\CAP <input type="button" value="Place"/> <input type="button" value="Alt"/>
Number of Pins	2
Package Size	0603
Package Height	0.87 mm
Last Modified	Sep 1 2021 10:15PM
Part Type	EHA\Ceramic\SMD\0603
Value	0.01uF
PCB Footprint	CAPC1608\87N <input type="button" value="Alt"/>
ALT_SYMBOLS	
Operating Temperature Maximum	125 C
Operating Temperature Minimum	-55 C
Package Type	SMD
Last Modified By	Admin

Parametric Fields	
Rated Voltage	50 V
Equivalent Series Resistance	
Device Type	
Dielectric Type	Ceramic
Temperature Coefficient	X7R
Tolerance	10%

Model Fields	
STEP_MODEL	
PSPiceTemplate	C:@REFDES \$1 \$2 C:@REFDES 0.01uF \n.model C:@REFDES CAP C=1 DEV=0.1
CLASS	DISCRETE
Implementation	
Implementation Type	<none>

Capacitors View With New Field Order

3.3.4 BOM/Design Options

The **BOM/Design Options** configuration tab allows you to:

- Set **BOM Format** for Do Not Stuff and Same as Core parts between core design and variants.
 - Enter a text label to indicate a BOM part is not present on the core design or a variant - Default: **Do Not Stuff**
 - Enter a text label to indicate a BOM Variant part is the same as the core design - Default: **Same As Core**
- Configure **Design Parts Sync** Part Replacement Filter Rules to determine whether replacement part fields are required to match the original part. Each of the field filters below can be set to **Optional (Warn)** or **Required**. This will control the field filters and related warnings when using [Design Parts Sync](#) to [Replace Parts](#) on a design with selected replacement part.
 - Component View
 - Value
 - Schematic Part (Source Part and Source Library)
 - PCB Footprint

Admin - Configuration

Component Views | Customizable Fields | Reorder View Fields | **BOM/Design Options** | Email Notifications | Increm

BOM Format

<input type="checkbox"/>	Label to indicate a BOM Variant part is not present	Do Not Stuff
<input type="checkbox"/>	Label to indicate a BOM Variant part is the same as the Core	Same As Core

Design Parts Sync

Part Replacement Filter Rules

Determine whether replacement part fields are required to match the original part.

Component View	Optional (Warn) v
Value	Optional (Warn) v
Schematic Part (Source Part and Source Library)	Optional (Warn) v
PCB Footprint	Optional (Warn) v

BOM/Design Options

Update the BOM Format labels for BOM Variants:

1. Click on the **Edit** button.

BOM Format

<input type="checkbox"/>	Label to indicate a BOM Variant part is not present	Do Not Stuff
<input type="checkbox"/>	Label to indicate a BOM Variant part is the same as the Core	Same As Core

Edit BOM Format Labels

2. Enter the desired text or clear the field to use blank/empty as the label.
 - a. **Do Not Stuff** - This will apply when viewing a BOM Revision and selecting (1) the [core or single variant](#), or (2) [All Variant](#). The label entered will be dynamically shown on a BOM-Rev-Variant when at least one variant or core design has a RefDes that does not exist on another variant or core design of the same BOM revision.
 - b. **Same As Core** - This will apply when viewing a BOM Revision and selecting the [All Variant option](#).
3. Click the **Save** button to apply the setting.

<input checked="" type="checkbox"/>	Label to indicate a BOM Variant part is not present	DNS
-------------------------------------	---	-----

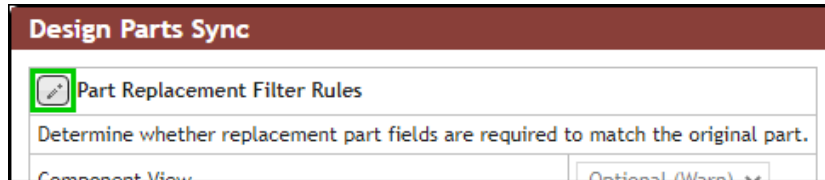
Change from Do Not Stuff to DNS

<input checked="" type="checkbox"/>	Label to indicate a BOM Variant part is the same as the Core	
-------------------------------------	--	--

Change from --- Same as Core --- to blank

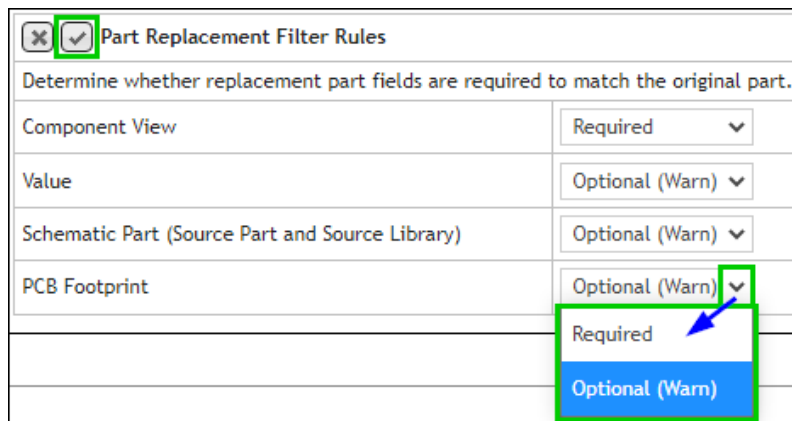
Update the Part Replacement Filter Rules for Design Parts Sync:

1. Click on the **Edit**  button.




Edit Part Replacement Filter Rules

2. Select the desired field drop-down list and choose **Optional (Warn)** or **Required**. This will apply when invoking [Part Replacement](#) and [filtering and selecting the replacement part](#).



Updated Part Replacement Filter Rules

3. Click the **Save**  button to apply the setting.

3.3.5 Email Notifications

You can set up CIP **Email Notifications** so that users are notified when company or manufacturer 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: The SQL Server Administrator must enable and configure Database Mail on the SQL server before email notifications can be successfully enabled. This setup occurs outside of CIP. See the figure [Email Configuration Required](#) to see the error message you may see when you attempt to set up email notifications before Database Mail is set up on the CIP server.

A CIP Admin can enable Email Notifications for individual CIP Users or for Email Aliases (which may or may not contain CIP Users). To enable Email Notifications within CIP, select **Admin > Configuration > Email Notifications**. Select the **Email Notification** checkbox to start configuring email notifications.

Admin - Configuration					
Customizable Fields	Component Views	Email Notifications	Incremental Part Number	Manufacturer Part Status Indicator	Other
Description	Property				
Once DatabaseMail has been configured on the SQL server, you can check this box to enable or uncheck it to disable all emails from CIP. For more information on configuring DatabaseMail, see the CIP Installation Guide.	<input type="checkbox"/> Email Notification				
Insert notification alias. This email address will be sent any insert notifications (optional).	<input type="text"/>				
Update notification alias. This email address will be sent any update notifications (optional).	<input type="text"/>				
Delete notification alias. This email address will be sent any delete notifications (optional).	<input type="text"/>				
If this option is selected, users that create a temp part will be sent an email notifying them when that part is assigned a company part number (CIS usernames must match CIP usernames for this notification to work when temp parts are created from CIS).	<input type="checkbox"/> Temp Part Assigned Notification				
<input type="button" value="x"/> <input type="button" value="✓"/>					

Email Notification

Once the email notifications are enabled (checked), options to enter notification aliases becomes available. Enter an email alias where desired so that all users belonging to an alias are notified when a database Insert, Update, or Delete occurs.

Admin - Configuration					
Customizable Fields	Component Views	Email Notifications	Incremental Part Number	Manufacturer Part Status Indicator	Other
Description	Property				
Once DatabaseMail has been configured on the SQL server, you can check this box to enable or uncheck it to disable all emails from CIP. For more information on configuring DatabaseMail, see the CIP Installation Guide.	<input type="checkbox"/> Email Notification				
Insert notification alias. This email address will be sent any insert notifications (optional).	<input type="text"/>				
Update notification alias. This email address will be sent any update notifications (optional).	<input type="text"/>				
Delete notification alias. This email address will be sent any delete notifications (optional).	<input type="text"/>				
If this option is selected, users that create a temp part will be sent an email notifying them when that part is assigned a company part number (CIS usernames must match CIP usernames for this notification to work when temp parts are created from CIS).	<input type="checkbox"/> Temp Part Assigned Notification				
<input type="button" value="x"/> <input type="button" value="✓"/>					

Email Notification Aliases Enabled

Optionally, you can enable the Temp Part Assigned Notification if users who create Temp Parts want to be notified when their Temp Parts are assigned Formal Part Numbers. After email notifications are configured as desired, click the **Save** button . When the settings are saved, the Save and Cancel buttons de-activate. The buttons become enabled again when changes are made.

Description	Property
Once DatabaseMail has been configured on the SQL server, you can check this box to enable or uncheck it to disable all emails from CIP. For more information on configuring DatabaseMail, see the CIP Installation Guide.	<input checked="" type="checkbox"/> Email Notification
Insert notification alias. This email address will be sent any insert notifications (optional).	<input type="text" value="INSERT_ALIAS@COMPANY.COM"/>
Update notification alias. This email address will be sent any update notifications (optional).	<input type="text" value="UPDATE_ALIAS@COMPANY.COM"/>
Delete notification alias. This email address will be sent any delete notifications (optional).	<input type="text" value="DELETE_ALIAS@COMPANY.COM"/>
If this option is selected, users that create a temp part will be sent an email notifying them when that part is assigned a company part number (CIS usernames must match CIP usernames for this notification to work when temp parts are created from CIS).	<input checked="" type="checkbox"/> Temp Part Assigned Notification
	<input type="button" value="X"/> <input checked="" type="button" value="✓"/>

Email Notifications Updated

The Temp Part Assigned Notification works smoothly when a Temp Part is created from CIS and the user's Windows Authenticated username matches the CIP username. CIS and CIP record the users who are logged in when a Temp Part is created.

Note: [Email Notifications can be configured for individual CIP Users](#) via the **Admin > Users, Roles & Permissions** page. Although email aliases are not required, an alias address can be set up to notify groups of people or people that are not CIP Users. Email alerts can not be sent until the Email Notification option is enabled.

The image below shows the email error message that displays when DatabaseMail is not yet set up on the SQL server.

Customizable Fields		Component Views	Email Notifications	Incremental Part Number	Manufacturer Part Status Indicator	Other
Description	Property					
Once DatabaseMail has been configured on the SQL server, you can check this box to enable or uncheck it to disable all emails from CIP. For more information on configuring DatabaseMail, see the CIP Installation Guide.	<input checked="" type="checkbox"/> Email Notification (Email Notification cannot be enabled until DatabaseMail has been configured on the SQL server.)					
Insert notification alias. This email address will be sent any insert notifications (optional).	<input type="text"/>					
Update notification alias. This email address will be sent any update notifications (optional).	<input type="text"/>					
Delete notification alias. This email address will be sent any delete notifications (optional).	<input type="text"/>					
If this option is selected, users that create a temp part will be sent an email notifying them when that part is assigned a company part number (CIS usernames must match CIP usernames for this notification to work when temp parts are created from CIS).	<input type="checkbox"/> Temp Part Assigned Notification					
	<input type="button" value="X"/> <input checked="" type="button" value="✓"/>					

Email Configuration Required

3.3.5.1 Email Notification for Individual Users

After Email Notifications are enabled, you can assign them to specific CIP Users. Navigate to the **Admin > User, Roles & Permissions Administration** tab. Click **Edit** for a particular CIP User, and then click the desired checkboxes under the Notifications column. When a user is configured, click **Update** to save the settings.

	Email ↕	Password	Role ↕	Notifications	Online ↕	Last Activity ↕
	Admin@company.com		Admin	<input type="checkbox"/> Insert <input type="checkbox"/> Update <input type="checkbox"/> Delete	true	2017-06-26T17:18:52
	mgr@company.com		Admin	<input checked="" type="checkbox"/> Insert <input checked="" type="checkbox"/> Update <input checked="" type="checkbox"/> Delete	false	1753-01-01T00:00:00
	eng1@company.com		UpdateWithDelete	<input type="checkbox"/> Insert <input type="checkbox"/> Update <input type="checkbox"/> Delete	false	1753-01-01T00:00:00
	Eng2@company.com		UpdateWithDelete	<input type="checkbox"/> Insert <input type="checkbox"/> Update <input type="checkbox"/> Delete	false	1753-01-01T00:00:00
	Lib@company.com		UpdateWithDelete	<input type="checkbox"/> Insert <input type="checkbox"/> Update <input type="checkbox"/> Delete	false	1753-01-01T00:00:00
	nancy@company.com		Read Only	<input type="checkbox"/> Insert <input type="checkbox"/> Update <input type="checkbox"/> Delete	false	1753-01-01T00:00:00

Email Notification for Individual Users

3.3.6 Incremental Part Number

Each part entered into CIP requires a unique part number. The part number can be assigned either manually or automatically by CIP. Part numbers entered manually can have any format. Part numbers automatically assigned by CIP are incrementally numbered with the next available sequential number.


To configure CIP to auto-increment part numbers

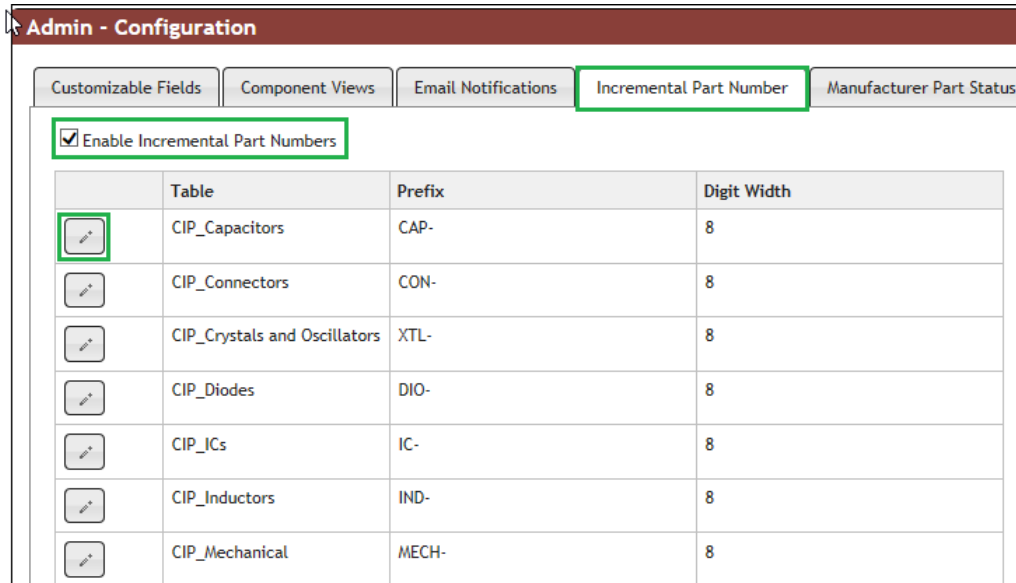
1. Select the **Admin > Configuration** menu, then click the **Incremental Part Number** tab.
2. Select the **Enable Incremental Part Number** checkbox.

Note: Options to configure auto-number only display for users assigned to roles that include [Incremental PN Format](#).

Once enabled, CIP can automatically assign the next incremental part number when a formal part is created. The part numbering scheme can be configured differently for each table. A set of default pre-fixes are pre-populated during CIP installation. Once enabled, you may edit the scheme for each table.

To edit the numbering scheme of a part table

1. Select the **Edit** button  that precedes the table of the component numbering scheme you want to edit.

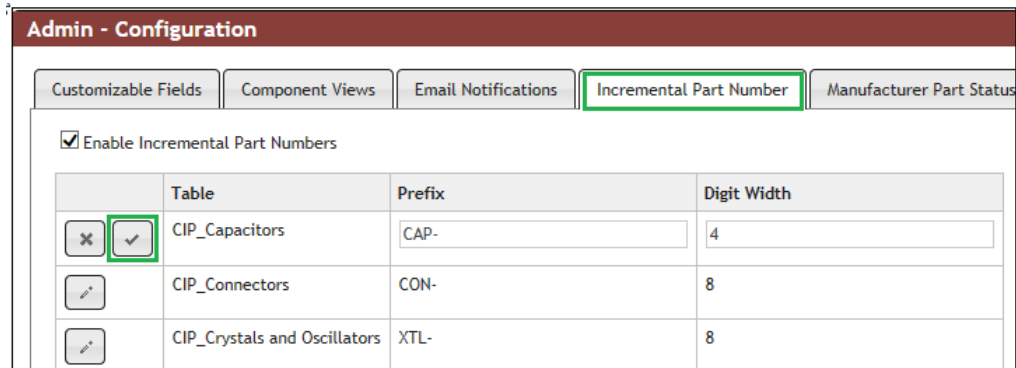


Enable Part Number Auto-Numbering

2. Edit the prefix and number of characters in each part number as desired.

The prefix may be in any format while the numbers for each part number can range from 0 to 15 digits. For example, if the value 8 is entered, there will be 8 placeholder digits for the part number.

The following figure provides an example where the prefix is CAP and the number 4 is the Digit Width for the CIP_Capacitor table.



Edit Capacitors Auto Part Numbering Scheme

To create a new formal part

1. Open a Part Information page (**Components > Component View**).
2. Click the **Add** button to open a new part form.

Component Information Portal

Admin ▾ Components ▾ CIS DB Search Distributor Search Compliance Temp. Parts BOMs ▾

Capacitors

Part Information Mechanical Parts History

✎ + 🗑️ 📄 ⏪ ⏩ = 📄

PART_NUMBER	TMP-1
Description	CAP, Ceramic, SMD, 0.01 uF, 10 %, 10 V, 0201
PCB Footprint	CAPC1608X87N
Number of Pins	2

Make Selection to Add a New Part

- Click the **Next PN** button to retrieve next available number. As shown in the sample image below, the first part number for this new part format is CAP-0001.

✕ + + TMP

PART_NUMBER	<input type="text"/>	1
Description	<input type="text"/>	Next PN
PCB Footprint	<input type="text"/>	

✕ + + TMP

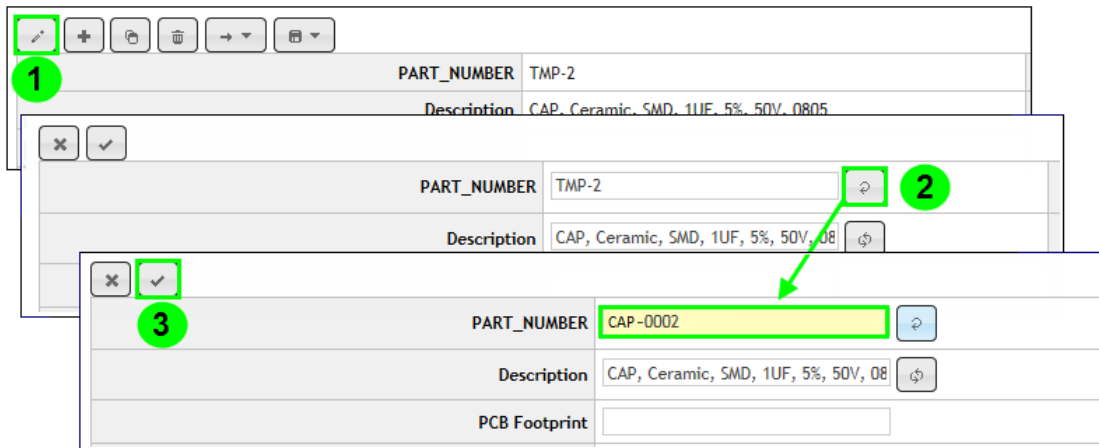
2 Add part with given PART_NUMBER

PART_NUMBER	CAP-0001
Description	CAP, Ceramic, SMD, 0.01 uF, 10 %, 10 V
PCB Footprint	CAPC0603X33N ✕
Number of Pins	<input type="text"/>
Operating Temperature Minimum	<input type="text"/>

Obtain An Auto-Increment Part Number

- Enter parametric data and click the **Add** button.

To convert a TMP part to the next available auto-increment part number, click **Edit** button when viewing a TMP part as shown below. While in Edit mode, click **Next PN** and **Save** to complete the conversion of the TMP part to a formal auto-increment part number.

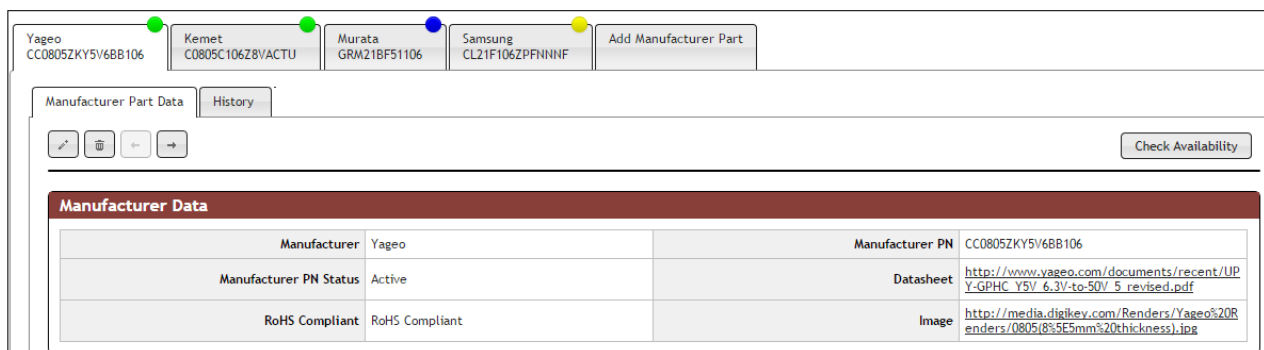


Convert From TMP Part Number To Auto-Increment Number

3.3.7 Manufacturer Part Status Indicator


Privileged users can set up a field to be used as the manufacturer part status indicator. The **Manufacturer Part Status Indicator** reports the status of a part by color code assignment associated to options available in the Part Status field. Four colors are available: red, green, blue, and yellow.

Note: The CIP Admin must grant the user permission to configure Customizable Fields before the user can make changes to the **Manufacturer Part Status Indicator**. Users who lack this permission will be unable to set up this feature.



Manufacturer Parts With Color Coding Based on PN

To enable the Manufacturer Part Status Indicator

1. Select the **Admin > Configuration** menu, then click the **Manufacturer Part Status Indicator** tab.
2. Click the **Edit** button  and check the **Enable** checkbox to begin defining the status indicators.

Customizable Fields	Component Views	Email Notifications	Incremental Part Number	Manufacturer Part Status Indicator	Other
Enable	Status Field	Red ●	Green ●	Blue ●	Yellow ●
<input checked="" type="checkbox"/>	AuthorizedDistributors				

Configuring Manufacturer Part Status Indicator

- Click the **Status Field** drop-down list and select the field for which you want to set up a status indicator.
- Type a string (New Value) into each color field to indicates the status value you want to associate to each color.

Note: You can assign more than one status string to each color.
- To save the strings you added, either press your keyboard **Enter** key or click the **Add** button . When done, click the **Save** button .

Customizable Fields	Component Views	Email Notifications	Incremental Part Number	Manufacturer Part Status Indicator	Other
Enable	Status Field	Red ●	Green ●	Blue ●	Yellow ●
<input checked="" type="checkbox"/>	Manufacturer PN Status	<input type="text" value="New Value"/> <input type="button" value="+"/> obsolete nrnd	<input type="text" value="New Value"/> <input type="button" value="+"/> active	<input type="text" value="New Value"/> <input type="button" value="+"/> unknown	<input type="text" value="New Value"/> <input type="button" value="+"/> non-stock

Defining Color Code of Status Indicators

If you want to discard all changes, click the **Cancel** button . If you wish to remove a string from the list, hover over the string and select the red X button, .

Red ●	Green ●	Blue ●	Yellow ●
<input type="text" value="New Value"/> <input type="button" value="+"/> obsolete nrnd	<input type="text" value="New Value"/> <input type="button" value="+"/> active	<input type="text" value="New Value"/> <input type="button" value="+"/> unknown	<input type="text" value="New Value"/> <input type="button" value="+"/> non-stock

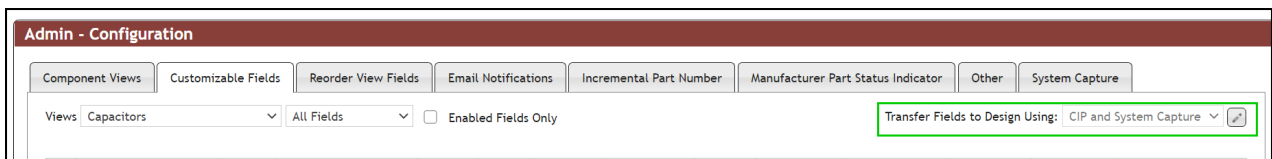
Discarding Editing Changes to Status Indicators

3.3.8 System Capture Configuration

The **System Capture** configuration tab allows you to:

- Configure the location in which to create your PTF file.
- Define field and value name substitution rules to apply during PTF file creation.
- Generate the PTF file of formal parts with a report logging substitutions applied and number of parts for each System Capture Part.

You will need to have permissions to configure these settings or create a PTF file. To enable CIP to provide full functionality with CIP System Capture client plug-in, you must enable the [Transfer Fields to Design](#) settings to either **System Capture** or **CIP and System Capture** as shown in the following figure.




Characters allowed for field names in System Capture include only the following character set: 0-9, a-z, and `_`. Additionally, length of field names cannot exceed 30 characters. For example, field names such as Rated Voltage or Rated Power will not be allowed in System Capture. To avoid manually changing all your field names and potentially affecting OrCAD Capture designs, you can define substitution rule using the System Capture tab in **Admin > Configuration**.

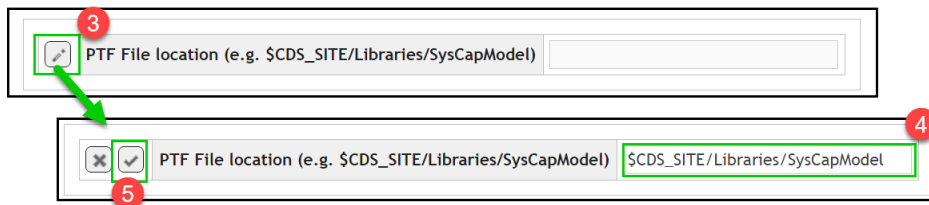
Configure Location of PTF file:

The PTF file is not required by CIP to place parts onto a schematic page. The PTF file is used by System Capture to display parts in Unified Search as well as other System Capture functions.

1. Make sure you open CIP while inside System Capture if you plan on generating the PTF file. The location, substitution rules, and PTF report functions can be used inside or outside of System Capture.
2. Select **Admin > Configuration > System Capture**.



3. Select the **Edit**  button to enter/edit the **PTF File location**.
4. Enter the path of the PTF file. The PTF file should be placed in the same location as your library. CIP will add this path to the site.cpm file during PTF generation. A path name that includes CDS_SITE will ensure consistent access by all users. Prepend a "\$" to specify a directory relative to a predefined environment variable. If using the System Capture starter library as your guide, enter **\$CDS_SITE/Libraries/SysCapModel**.



Note: If the CDS_SITE environment variable was not set up during installation of the CIP System Capture Client plugin, you will need to set it up manually and restart System Capture.

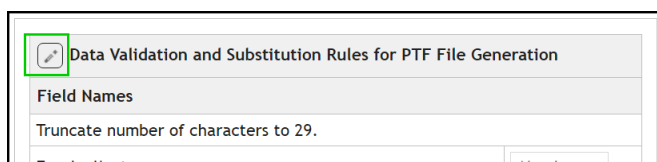
- Click the **Save** button.

Define Substitution Rules for PTF Generation:

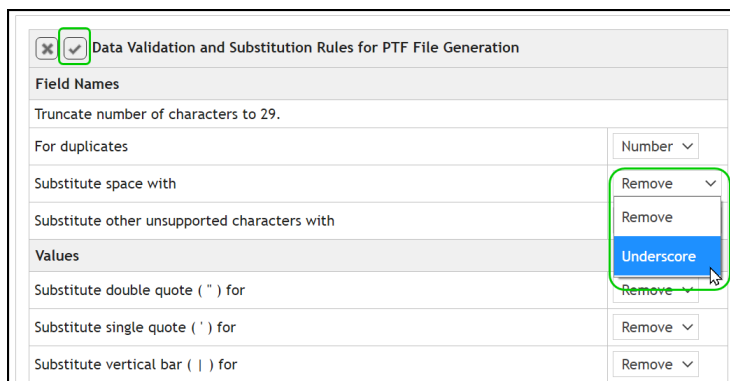
The format of the PTF file must conform to specifications for DE-HDL. Additional information may be found in Cadence documentation *Working with Part Table Files (PTF) in Design Entry HDL*.

PTF files for System Capture and indexer have restriction on fields and values. Supported characters for field names consists of a-z, 0-9, and `_`. Field name lengths are limited to 31. Truncation of fields to meet the length requirement may lead to duplicate field names. To ensure a validate PTF is generated, by default, a sequential number will be added. You have the option to change this to a letter. Options available for field name substitution of unsupported characters are removal or replacement with an underscore. Options available for value substitution of unsupported characters are provided in the UI. Alternately, you may [modify the display name of the field](#).

- Select **Admin > Configuration > System Capture**
- Click the **Edit** button to change **Data Validation and Substitution Rules for PTF Generation**. This option ensures that truncation of fields do not to duplicate field names.



- Use the pull down list to change the rules you want to apply. Click the **Save** button when complete.



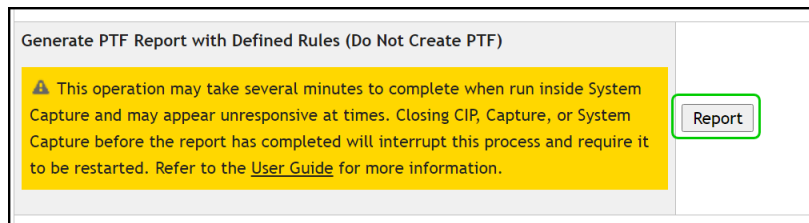
Generate PTF file:

The PTF generation process performed by CIP performs the following:

- Generate PTF Report with defined (substitution) rules and the number of parts, before the PTF file is actually created.
- Generate PTF File (**global.ptf**) using the same Defined (Substitution) Rules as the report. A backup of the prior global.ptf is save each time the Generate button is clicked.
- Indexing of the System Capture Library and PTF file to show models and parts in the System Capture Unified Search.

Steps for PTF file generation are:

1. Review the [substitution rules](#) to ensure they contains the rules you want to apply during PTF generation.
2. Click the **Report** button to see a report of the parts before generating the PTF file. If running **Report** while in System Capture, it may take more time for System Capture to display the entirety of results. You may run the report in a standard browser (such as Chrome or Edge) for faster response time.



3. Review the PTF Report on the right side of the page, which was created using your defined [substitution rules](#). Look for reported [PTF Errors](#) and fix any issues before proceeding to Generate. You may save a copy of the Report when using a standard browser.

Data Validation and Substitution Rules for PTF File Generation

Field Names

Truncate number of characters to 29.

For duplicates: Number

Substitute space with: Underscore

Substitute other unsupported characters with: Underscore

Values

Substitute double quote (") for: Remove

Substitute single quote (') for: Remove

Substitute vertical bar (|) for: Remove

Generate PTF Report with Defined Rules (Do Not Create PTF)

⚠ This operation may take several minutes to complete when run inside System Capture and may appear unresponsive at times. Closing CIP, Capture, or System Capture before the report has completed will interrupt this process and require it to be restarted. Refer to the [User Guide](#) for more information.

Report

Generate PTF with Defined Rules

⚠ This operation may take several minutes to complete, as it creates PTFs for all parts in your CIP database. Closing CIP or System Capture before generation has completed will interrupt this process and require it be restarted. Refer to the [User Guide](#) for more information.

Generate

Unavailable in standard browser

PTF Report using Defined Rules Save

PTF Log - 12/12/2023 11:01:50 AM
Output: Report Only (No PTF Created)

Part Name: 74-16623_48P
of Parts: 1

Warnings:
Field Name: Company Part Status
Changing to: company_part_status
Field Name: Implementation Type
Changing to: implementation_type
Field Name: Manufacturer PN
Changing to: manufacturer_pn
Field Name: Package Size
Changing to: package_size
Field Name: Part Type
Changing to: part_type
Field Name: Rated Power
Changing to: rated_power
Field Name: Supply Voltage
Changing to: supply_voltage

Part Name: 74-16623_56P
of Parts: 1

Warnings:
Field Name: Company Part Status
Changing to: company_part_status
Field Name: Implementation Type
Changing to: implementation_type
Field Name: Manufacturer PN
Changing to: manufacturer_pn
Field Name: Package Size
Changing to: package_size
Field Name: Part Type
Changing to: part_type
Field Name: Rated Power
Changing to: rated_power
Field Name: Supply Voltage
Changing to: supply_voltage

Part Name: 74-16623_56P
of Parts: 1

Unavailable in System Capture

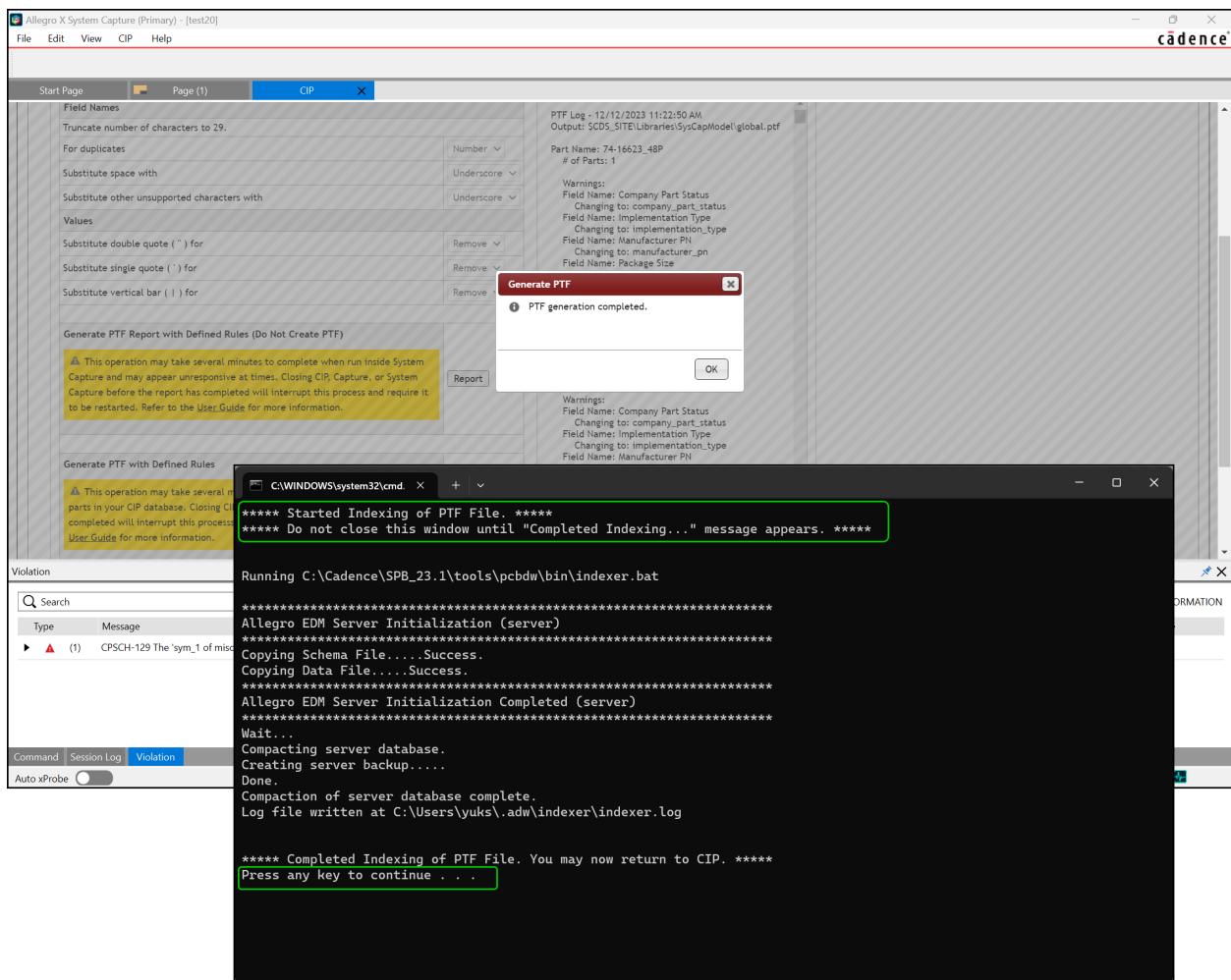
- Click the **Generate** button, which is enabled inside System Capture in order to run the indexing process. This will Generate the PTF Report and PTF File, and perform indexing of the System Capture Library and PTF file. These processes run in parallel and performance will depend on the configuration, hardware, and security rules set on your web, database, and file servers. The activity busy screen shows during Report generation. This process can take several minutes for a large library or number of parts. Once the PTF file is created, [a command window opens to index the contents](#) of your library and PTF file. DO NOT close this window until you see the message to "**Press any key to continue...**" that indicates completion. Review [the command window screen](#) for any errors before pressing any key to continue, since the window will dismiss immediately after you press any key. The index process enables System Capture to display parts and library models in Unified Search.

Generate PTF with Defined Rules

⚠ This operation may take several minutes to complete, as it creates PTFs for all parts in your CIP database. Closing CIP or System Capture before generation has completed will interrupt this process and require it be restarted. Refer to the [User Guide](#) for more information.

Generate

- A completion pop-up window appears when the PTF report and PTF file have been created. The indexing of the PTF file occurs in parallel. You may click OK to dismiss the Generate PTF window and continue using CIP. Press any key in the command window screen to dismiss the indexing window. Both of these processes need to finish before you can use the parts in System Capture's Unified Search.



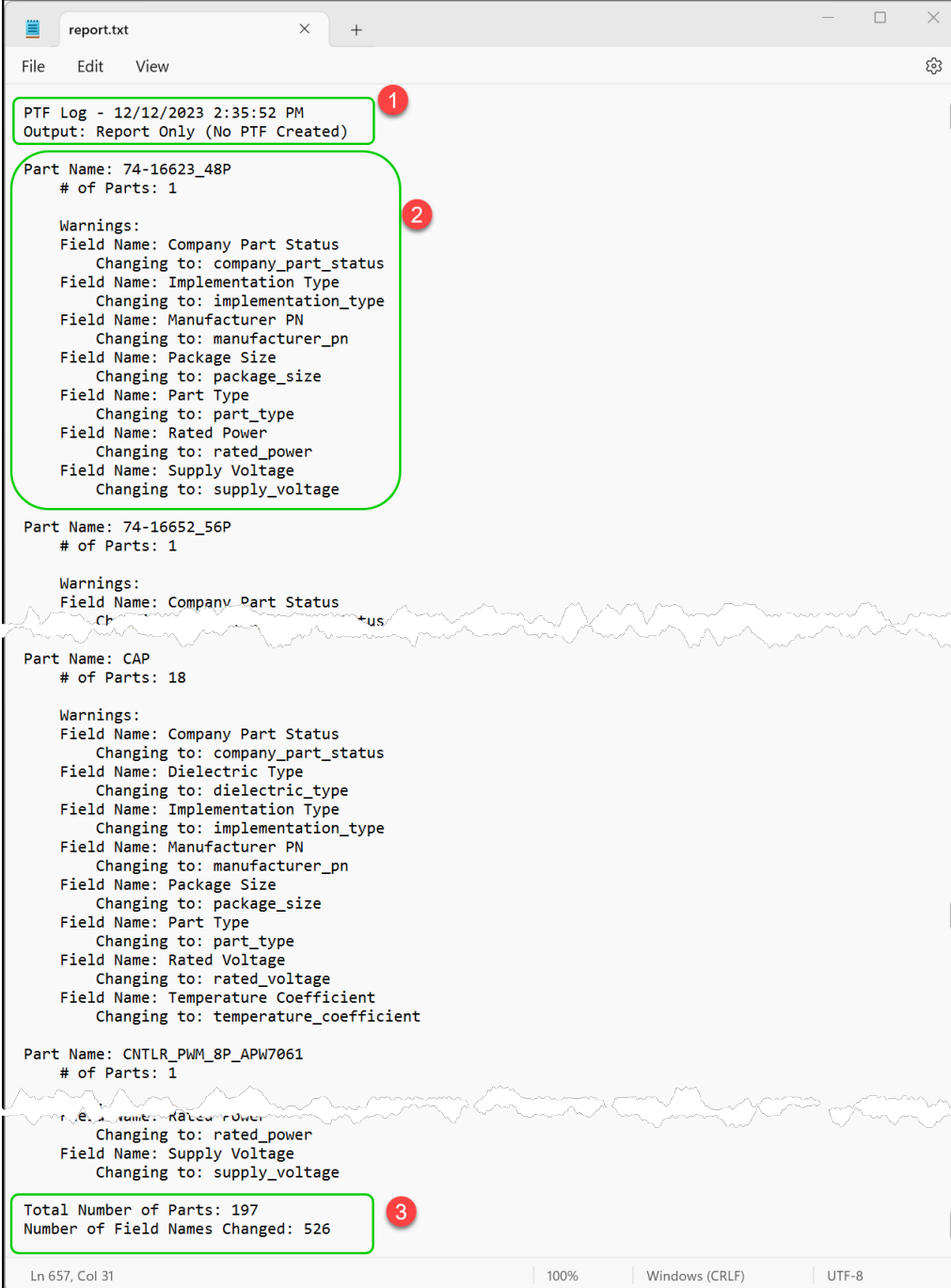
3.3.8.1 PTF Generation Report Format

CIP creates a report consisting of number of parts per System Capture Part along with the substitution rules applied. When running Report from a standard browser, you can save the report to review using notepad or another text editor.

There are three sections in the Report.

1. Header
 - a. **PTF Log** - Consists of the date and time that this report is run.
 - b. **Output:** Contains the location of the PTF file when the Generate is used.
2. Part Information - This section is repeated for each System Capture Part Name
 - a. **Part Name** - This is the symbol name in the System Capture Part field. All parts with the same part name are grouped together per PTF format specification for DE-HDL.
 - b. **# of Parts** - Shows the number of parts found using this part name. TMP parts are excluded.

- c. **Warnings** - Identifies any substitution rules applied for the Part Name.
3. Summary
- a. **Total Number of Parts** - This is the number of parts that will be in the PTF file. TMP parts are excluded from the PTF file.
- b. **Number of Fields Changed** - Total number of fields where substitution rules were applied.



The screenshot shows a text editor window titled 'report.txt' with a menu bar (File, Edit, View) and a status bar (Ln 657, Col 31, 100%, Windows (CRLF), UTF-8). The content is a PTF Log for 12/12/2023 at 2:35:52 PM, with the output set to 'Report Only (No PTF Created)'. The log lists four parts with their respective warnings. Red circles with numbers 1, 2, and 3 highlight the log header, a specific warning block, and the summary statistics at the bottom.

```
PTF Log - 12/12/2023 2:35:52 PM
Output: Report Only (No PTF Created)

Part Name: 74-16623_48P
# of Parts: 1

Warnings:
Field Name: Company Part Status
  Changing to: company_part_status
Field Name: Implementation Type
  Changing to: implementation_type
Field Name: Manufacturer PN
  Changing to: manufacturer_pn
Field Name: Package Size
  Changing to: package_size
Field Name: Part Type
  Changing to: part_type
Field Name: Rated Power
  Changing to: rated_power
Field Name: Supply Voltage
  Changing to: supply_voltage

Part Name: 74-16652_56P
# of Parts: 1

Warnings:
Field Name: Company Part Status
  Changing to: company_part_status

Part Name: CAP
# of Parts: 18

Warnings:
Field Name: Company Part Status
  Changing to: company_part_status
Field Name: Dielectric Type
  Changing to: dielectric_type
Field Name: Implementation Type
  Changing to: implementation_type
Field Name: Manufacturer PN
  Changing to: manufacturer_pn
Field Name: Package Size
  Changing to: package_size
Field Name: Part Type
  Changing to: part_type
Field Name: Rated Voltage
  Changing to: rated_voltage
Field Name: Temperature Coefficient
  Changing to: temperature_coefficient

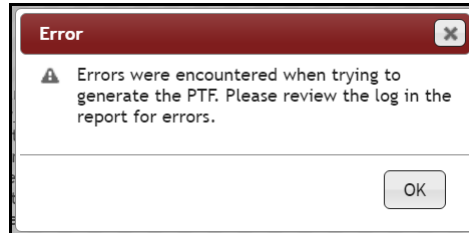
Part Name: CNTLR_PWM_8P_APW7061
# of Parts: 1

Warnings:
Field Name: Rated Power
  Changing to: rated_power
Field Name: Supply Voltage
  Changing to: supply_voltage

Total Number of Parts: 197
Number of Field Names Changed: 526
```

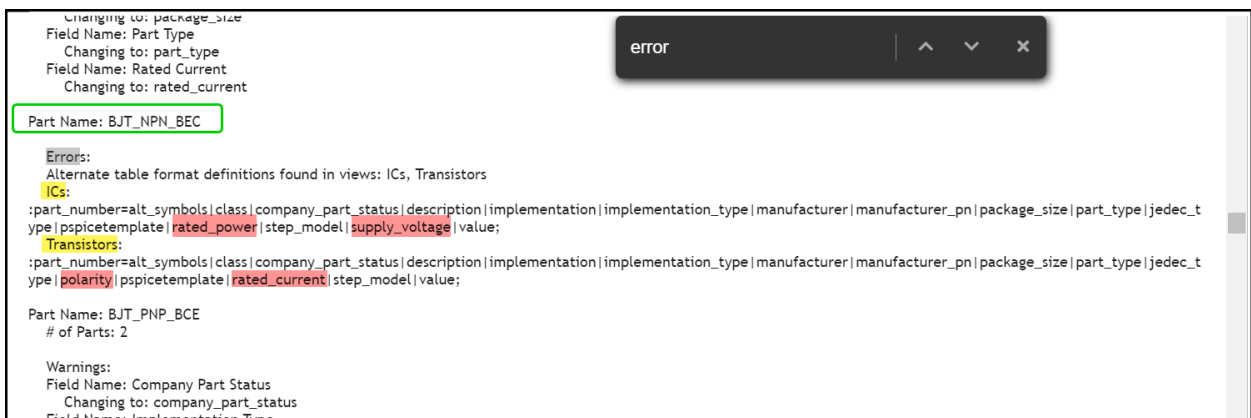
Finding and Fixing Errors in Report

An error message displays when errors are found during report generation.



You will need to locate the source of the problem and fix before PTF Generation.

1. Click OK to dismiss error message.
2. Type Control F to locate "error" in the report.
3. Review the Part Names showing error.



Sample Error in Report

4. In this example, the Part Name, "BJT_NPN_BEC" is found in both ICs and Transistors views. However, there is a conflict (highlighted in pink) with fields defined for transfer to design between each of these views. To fix this problem, you can change the fields for transfer to design to match or change the Part Name for one of these parts.

3.3.8.2 Indexer Command Window

The Indexer generates an index for parts in the PTF as well as symbols in the library. Parts added to CIP or the PTF file manually will not be visible in Unified Search in with being indexed first.

The command window that runs the Indexer will look like the following example when run the first time to create the index.

```
C:\WINDOWS\system32\cmd. x + v
**** Started Indexing of PTF File. ****
**** Do not close this window until "Completed Indexing..." message appears. ****

Running C:\Cadence\SPB_23.1\tools\pcbaw\bin\indexer.bat

*****
Allegro EDM Server Initialization (server)
*****
Copying Schema File...Success.
Copying Data File...Success.
*****
Allegro EDM Server Initialization Completed (server)
*****
Wait..
Compacting server database.
Creating server backup....
Done.
Compaction of server database complete.
Log file written at C:\Users\...\.adw\indexer\indexer.log

**** Completed Indexing of PTF File. You may now return to CIP. ****
Press any key to continue . . .
```

Subsequent runs will look as follows to update the index.

```
C:\WINDOWS\system32\cmd. x + v
**** Started Indexing of PTF File. ****
**** Do not close this window until "Completed Indexing..." message appears. ****

Running C:\Cadence\SPB_23.1\tools\pcbaw\bin\indexer.bat

Wait..
Compacting server database.
Creating server backup....
Done.
Compaction of server database complete.
Log file written at C:\Users\...\.adw\indexer\indexer.log

**** Completed Indexing of PTF File. You may now return to CIP. ****
Press any key to continue . . .
```

Errors can occur when PTF files are manually created or edited. Another possible error can occur if you have multiple PTF files that have the same Part Name with different fields for Transfer to Design. To fix errors in the command window, review the errors identified. Then review the PTF files for part name with the errors and make the correction as identified in the errors. As a generally rule, make sure that you have only one source generating the PTF file.

```

C:\WINDOWS\system32\cmd. x + v
Details: This error is followed by error 217, when the Packager fails to merge two or more PPT rows together for
the same PPT part. There could be multiple tables in one file preventing the merging of a PPT part row. As a result, pa
rt selection cannot be performed. You should have all the PPT rows for a part in one table. This reduces the chances of
any PPT merging problems. If PPT rows are defined for the same part in multiple files, ensure that they have a consisten
t definition and each PPT row results in a unique PPT value.
ERROR(SPCODD-53): Packaging cannot be completed because packaging has encountered a null object ID. The design may not h
ave been saved correctly. Save the design before packaging.
ERROR(SPCODD-53): Packaging cannot be completed because packaging has encountered a null object ID. The design may not h
ave been saved correctly. Save the design before packaging.
ERROR(SPCODD-229): Part selection not performed. Refer to previous error(s) regarding attempt to merge PPT 'CAP'.

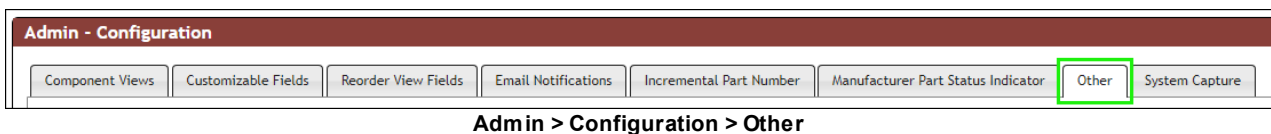
Details: This error is followed by error 217, when the Packager fails to merge two or more PPT rows together for
the same PPT part. There could be multiple tables in one file preventing the merging of a PPT part row. As a result, pa
rt selection cannot be performed. You should have all the PPT rows for a part in one table. This reduces the chances of
any PPT merging problems. If PPT rows are defined for the same part in multiple files, ensure that they have a consisten
t definition and each PPT row results in a unique PPT value.
ERROR(SPCODD-53): Packaging cannot be completed because packaging has encountered a null object ID. The design may not h
ave been saved correctly. Save the design before packaging.
ERROR(SPCODD-53): Packaging cannot be completed because packaging has encountered a null object ID. The design may not h
ave been saved correctly. Save the design before packaging.
Wait...
Compacting server database.
Creating server backup....
Done.
Compaction of server database complete.
Log file written at C:\Users\yuks\.adw\indexer\indexer.log

**** Completed Indexing of PTF File. You may now return to CIP. ****
Press any key to continue . . .

```

3.3.9 Other Configuration

There are several options that do not have their own configuration tab. These options are grouped under the **Other** tab.



- [New Part Default](#) – Configure the [New Part Form](#) to default as a Temporary or Formal part.
- [Import/Export Separator](#) – Configures the separator to be used for CSV file import and export.
- [Schematic Part/PCB Footprint Delimiter](#) – Configures the delimiter for symbols when multiple symbols are specified for a part.
- [CIP Base URL](#) – Configure the URL for CIP to enable CIS users to open CIP parts from the CIS Explorer Window within Cadence OrCAD Capture.
- [Component Company Action Link](#) – Enable a global link enabled on all components pages.
- [Reuse Module Directory](#) – Configure the location where reuse module .DSN files are stored.
- [Show CIP Client Download Link](#) – This allows users in a company to download the CIP client directly from the CIP page.
- [Temp Part Prefix](#) – Configure the part number prefix used for temporary parts.
- [Full Text Search Enabled](#) - This enables/disables full text search functionality.
- [Enable Download of Ultra Librarian Models](#) - Enable Ultra Librarian model download and configure common download location.

- [Enable Virtual Librarian Service](#) - Enable Virtual Librarian Service (VLS) menu item and Manufacturer PN request button for viewing and submitting VLS requests.

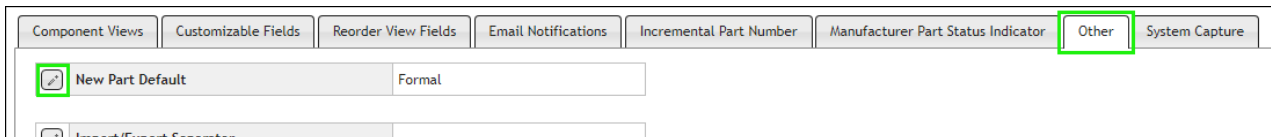
3.3.9.1 New Part Default

The New Part Default setting controls whether the [New Part Form](#) will default to a **Temporary** or **Formal** part. It can still be changed on-the-fly as desired.




Note: Users who are granted [permission to configure customizable fields](#) are also granted permission to change the New Part Default.

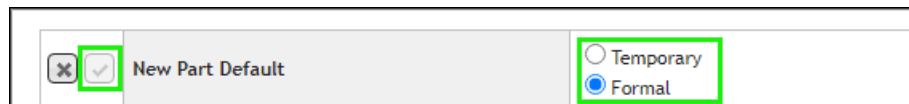
To change the New Part Default

1. Select the **Admin > Configuration** menu, then click the **Other** tab.



View the Current New Part Default

2. Select the **Edit** button  that is located next to the **New Part Default** option.
3. Select the radio button next to **Temporary** or **Formal** and click the **Save** button , or click **Cancel**  to discard changes. The next time the [New Part Form](#) is used, it will default to the setting you saved.



Configuring New Part Default

3.3.9.2 Import/Export Separator

Privileged users can define the separators used for importing and exporting CSV files. CIP uses the comma (,) symbol as its default delimiter/separator for handling BOMs and other data lists. However, there are some occasions when you may prefer to use a semicolon (;) symbol instead.




Note: Users who are granted permission to configure customizable fields are also granted permission to change the Import/Export Separators.

To change the default Import/Export Separator

1. Select the **Admin > Configuration** menu, then click the **Other** tab.

Component Views	Customizable Fields	Reorder View Fields	Email Notifications	Incremental Part Number	Manufacturer Part Status Indicator	Other
<input checked="" type="checkbox"/>	Import/Export Separator					,
<input checked="" type="checkbox"/>	Schematic Part Delimiter					,
<input checked="" type="checkbox"/>	CIP Base URL (ex: http://127.0.0.1/CIP-E)					
<input checked="" type="checkbox"/>	Component Company Action Link		Enabled: <input type="checkbox"/>	Name:	Url:	
<input checked="" type="checkbox"/>	Reuse Module Directory (ex: M:\ReuseModules\)					
<input checked="" type="checkbox"/>	Show CIPClient Download Link					<input type="checkbox"/>
<input checked="" type="checkbox"/>	Temp. Part Prefix (ex: TMP-)					
<input checked="" type="checkbox"/>	Full Text Search Enabled					<input checked="" type="checkbox"/>

Edit Import and Export Separator

2. Select the **Edit** button  that is located next to the **Import/Export Separator** option.
3. Select the (;) semicolon from the drop list and click the **Save** button , or click **Cancel**  to discard changes.

<input checked="" type="checkbox"/>	Import/Export Separator	,
<input checked="" type="checkbox"/>	Schematic Part Delimiter	,

Configuring Import And Export Separator

3.3.9.3 Schematic Part/PCB Footprint Delimiter




The **Schematic Part/PCB Footprint Delimiter** is used by CIP and Capture CIS when a part has more than one symbol in the Schematic Part or PCB Footprint fields. By default, a comma (,) is the delimiter used.

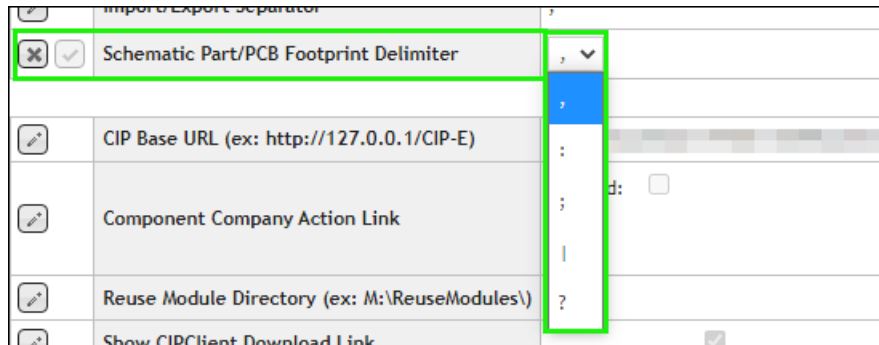
Note: Users with [permission](#) to configure [Other options in Admin > Configuration](#) can change the **Schematic Part/PCB Footprint Delimiter**.

To configure the Schematic Part/PCB Footprint Delimiter, select the **Admin > Configuration** menu, then click the **Other** tab.

Component Views	Customizable Fields	Reorder View Fields	Email Notifications	Incremental Part Number	Manufacturer Part Status Indicator	Other	System Capture
<input checked="" type="checkbox"/>	New Part Default						Formal
<input checked="" type="checkbox"/>	Import/Export Separator						,
<input checked="" type="checkbox"/>	Schematic Part/PCB Footprint Delimiter						,

Editing the Schematic Part/PCB Footprint Delimiter

Select the **Edit** button  for the **Schematic Part/PCB Footprint Delimiter**. Allowable delimiters are shown in the following figure. If Capture CIS is configured to use a different limiter, you need to set CIP to use the same delimiter. This enables CIP to treat each symbol separately. After changing your selection, select the **Save** button  to accept changes, or click **Cancel**  to discard changes..




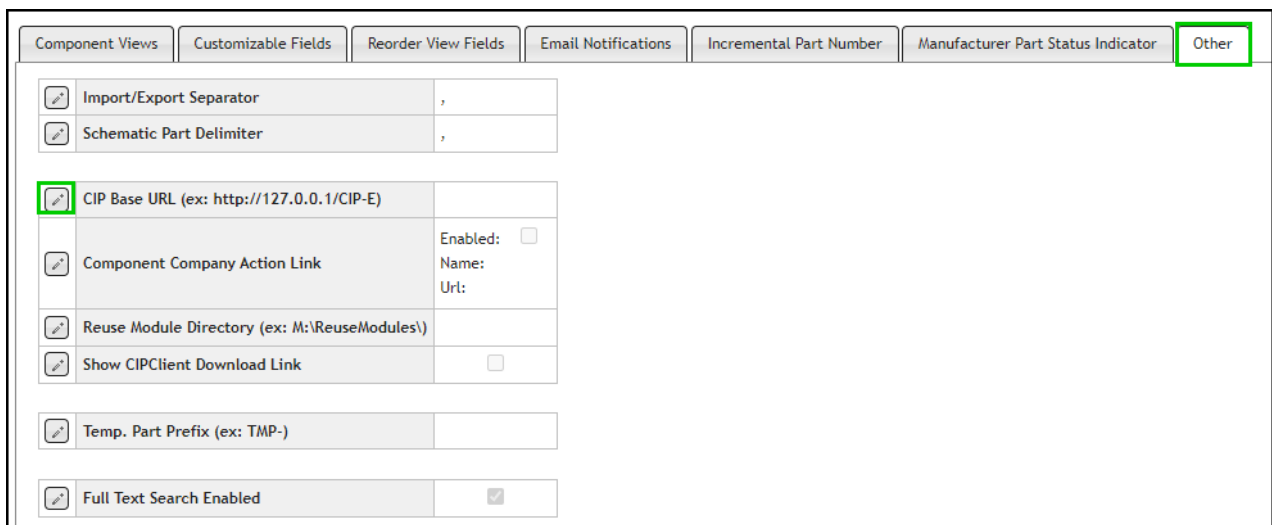
Configuring Schematic Part/PCB Footprint Delimiter

3.3.9.4 CIP Base URL

The CIP base URL allows easy access to the CIP part directly when you view a part in CIS.

Note: Users who are granted permission to configure customizable fields are also granted permission to change the CIP Base URL.

To configure the Link for all parts, select the **Admin > Configuration** menu, then click the **Other** tab. Select the **Edit** button  that is located next to the **CIP Base URL** option.



Editing the CIP Base URL

Type in the URL for CIP and click the **Save** button , or click **Cancel**  to discard changes.

<input checked="" type="checkbox"/>	CIP Base URL (ex: http://127.0.0.1/CIP-E)	<input type="text" value="http://servername/CIP-E"/>
<input type="checkbox"/>	Component Company Action Link	Enabled: <input type="checkbox"/> Name: Url:
<input type="checkbox"/>	Reuse Module Directory (ex: M:\ReuseModules\)	
<input type="checkbox"/>	Show CIPClient Download Link	<input type="checkbox"/>

Entering the CIP URL

After you save the link, all parts in the database that correspond to this link update. Depending upon the number of parts in your CIP database, the update process may take several minutes. The next time you open CIS, the CIP link will be active.

	Table	PART_NUMBER	Description	Value	CIP Link	PCB Footprint
1	Capacitors	EMA-00000124V2	CAP, Ceramic, SMD, 0.01 uF, 10 %, 50 V,	0.01uF	http://servername/CIP-E/Component/Index/All?pn=EMA-00000124V2	CAPC1608X87N
2	Capacitors	EMA-00000135V2	CAP, Ceramic, SMD, 0.1 uF, 10 %, 25 V,	0.1uF	http://servername/CIP-E/Component/Index/All?pn=EMA-00000135V2	CAPC1608X87N
3	Capacitors	EMA-00000372V2	CAP, Ceramic, SMD, 0.01 uF, 10 %, 16 V,	0.01uF	http://servername/CIP-E/Component/Index/All?pn=EMA-00000372V2	CAPC1608X86N
4	Capacitors	EMA-00000374V2	CAP, Ceramic, SMD, 0.01 uF, 20 %, 16 V,	0.01uF	http://servername/CIP-E/Component/Index/All?pn=EMA-00000374V2	CAPC1608X86N
5	Capacitors	EMA-00000381V2	CAP, Ceramic, SMD, 0.012 uF, 10 %, 50	0.012uF	http://servername/CIP-E/Component/Index/All?pn=EMA-00000381V2	CAPC1608X90N
6	Capacitors	EMA-00000384V2	CAP, Ceramic, SMD, 0.015 uF, 10 %, 50	0.015uF	http://servername/CIP-E/Component/Index/All?pn=EMA-00000384V2	CAPC1608X90N
7	Capacitors	EMA-00000387V2	CAP, Ceramic, SMD, 0.018 uF, 5.0 %, 50	0.018uF	http://servername/CIP-E/Component/Index/All?pn=EMA-00000387V2	CAPC1608X90N
8	Capacitors	EMA-00000389V2	CAP, Ceramic, SMD, 0.022 uF, 10 %, 50	0.022uF	http://servername/CIP-E/Component/Index/All?pn=EMA-00000389V2	CAPC1608X90N
9	Capacitors	EMA-00000392V2	CAP, Ceramic, SMD, 0.033 uF, 10 %, 50	0.033uF	http://servername/CIP-E/Component/Index/All?pn=EMA-00000392V2	CAPC1608X90N


CIP Link Updated

3.3.9.5 Enable Link on Component Pages

A link may be shown on all components pages to enable easy access from CIP to another system, i.e. PLM.

Note: Users who are granted permission to configure customizable fields are also granted permission to configure **Component Company Action Link**.

To configure the Component Company Action Link

1. Select the **Admin > Configuration** menu, then click the **Other** tab.
2. Select the **Edit** button  for **Component Company Action Link**.

Component Views	Customizable Fields	Reorder View Fields	Email Notifications	Incremental Part Number	Manufacturer Part Status Indicator	Other
<input type="checkbox"/>	Import/Export Separator		,			
<input type="checkbox"/>	Schematic Part Delimiter		,			
<input type="checkbox"/>	CIP Base URL (ex: http://127.0.0.1/CIP-E)					
<input checked="" type="checkbox"/>	Component Company Action Link	Enabled:	<input type="checkbox"/>	Name:		
		Url:				
<input type="checkbox"/>	Reuse Module Directory (ex: M:\ReuseModules\)					
<input type="checkbox"/>	Show CIPClient Download Link		<input type="checkbox"/>			
<input type="checkbox"/>	Temp. Part Prefix (ex: TMP-)					
<input type="checkbox"/>	Full Text Search Enabled		<input checked="" type="checkbox"/>			

Configure Component Company Action Link

3. Select the checkbox for **Enabled**. Enable the Name in which to show in the component page for the link and enter the URL for the link and click the **Save** button , or click **Cancel** to discard changes.

<input type="checkbox"/>	CIP Base URL (ex: http://127.0.0.1/CIP-E)	http://servername/CIP-E
<input checked="" type="checkbox"/>	Component Company Action Link	Enabled: <input checked="" type="checkbox"/> Name: <input type="text" value="Open PLM"/> URL: <input type="text" value="http://PLMServer/home"/>
<input type="checkbox"/>	Reuse Module Directory (ex: M:\ReuseModules\)	
<input type="checkbox"/>	Show CIPClient Download Link	<input type="checkbox"/>
<input type="checkbox"/>	Temp. Part Prefix (ex: TMP-)	
<input type="checkbox"/>	Full Text Search Enabled	<input checked="" type="checkbox"/>

Enable and Save Component Company Action Link

After configuring this setting, the component pages contains the added link as shown in the example below.

Capacitors		
Part Information	Mechanical Parts	History
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PART_NUMBER	EMA-00000124V22	
Description	CAP, Ceramic, SMD, 0.01 uF, 10 %, 50 V, 0603	
PCB Footprint	CAPC1608X87N	


Example of Component Page with Added Company Link

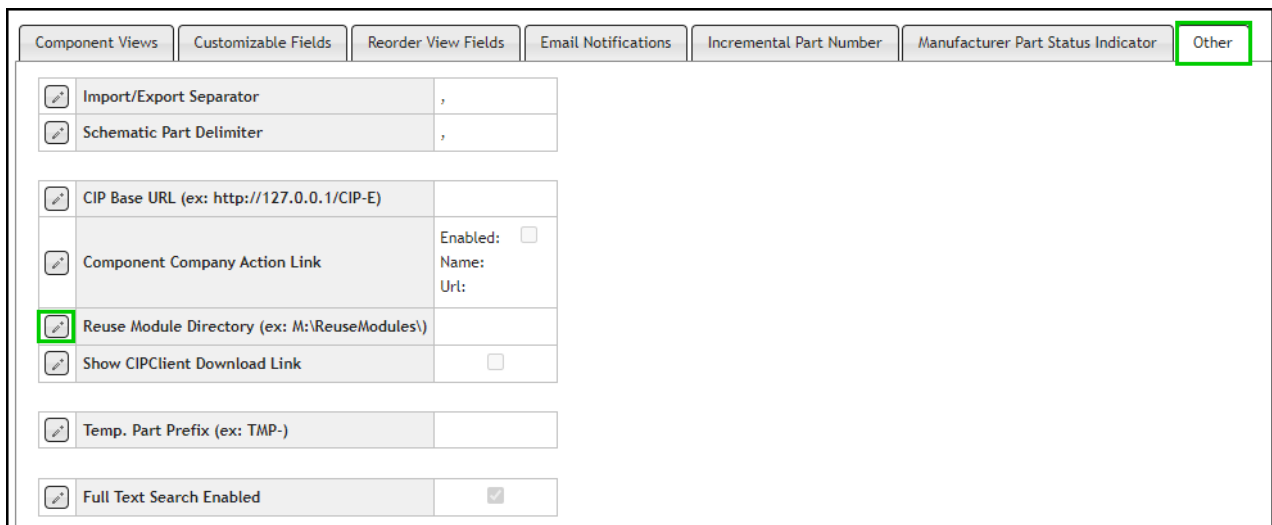
3.3.9.6 Reuse Module Directory

Reuse Modules enable users to save designs and part information to the CIP database where it can easily be retrieved for use in a subsequent design. To enable use of this feature, you must first configure the directory where you want Reuse Module .DSN files to be stored.

Note: Users who are granted permission to configure customizable fields are also granted permission to configure **Reuse Module Directory**.



To configure the Reuse Module Directory

1. Select the **Admin > Configuration** menu, then click the **Other** tab.
2. Select the **Edit** button  for **Reuse Module Directory**.








The screenshot shows the 'Other' tab of the Configuration dialog box. The 'Reuse Module Directory' field is highlighted with a green box. The field contains the text 'Reuse Module Directory (ex: M:\ReuseModules\)' and has an edit icon to its left. To the right of the field, there is an 'Enabled' checkbox, which is currently unchecked. Below the field, there are 'Name:' and 'Url:' labels. Other fields in the dialog include 'Import/Export Separator', 'Schematic Part Delimiter', 'CIP Base URL', 'Component Company Action Link', 'Show CIPClient Download Link', 'Temp. Part Prefix', and 'Full Text Search Enabled'.

Configure Reuse Module Directory

3. Enter the directory where you want to store your Reuse Module .DSN files. Then click the **Save** button , or click **Cancel**  to discard changes.

The directory should be a network directory that CIS users may access.

	CIP Base URL (ex: http://127.0.0.1/CIP-E)	http://servername/CIP-E
	Component Company Action Link	Enabled: <input type="checkbox"/> Name: Url:
 	Reuse Module Directory (ex: M:\ReuseModules\)	L:\Share\ReuseModules
	Show CIPClient Download Link	<input type="checkbox"/>

Save Configuration for Reuse Module Directory

3.3.9.7 Show CIPClient Download Link


The CIP Client is a separate installation that adds features for OrCAD Capture CIS or System Capture users when the corresponding plugin is installed. Client plugins for all supported SPB versions are included in the download. For SPB 23.1 or 24.1, the System Capture client plugin is included.

The CIP Client enables a user to open CIP from OrCAD or System Capture and use all the standard features of CIP as well as preview/place symbols, preview footprints, compare symbols to footprints, create/import reuse modules, and import BOMs directly into CIP. ***Some client features required OrCAD Capture and are not supported in System Capture.**

Users who also have Library Builder installed on their system, can launch Library Builder from CIP to build symbols and footprints.

Note: Users who are granted permission to configure customizable fields are also granted permission to enable the **Show CIPClient Download Link**.

To enable the CIPClient Download Link

1. Select the **Admin > Configuration** menu, then click the **Other** tab.
2. Select the **Edit** button  for **Show CIPClient Download Link**.

Component Views	Customizable Fields	Reorder View Fields	Email Notifications	Incremental Part Number	Manufacturer Part Status Indicator	Other
<input type="checkbox"/>	Import/Export Separator		,			
<input type="checkbox"/>	Schematic Part Delimiter		,			
<input type="checkbox"/>	CIP Base URL (ex: http://127.0.0.1/CIP-E)					
<input type="checkbox"/>	Component Company Action Link	Enabled:	<input type="checkbox"/>	Name:		
		Url:				
<input type="checkbox"/>	Reuse Module Directory (ex: M:\ReuseModules\)					
<input checked="" type="checkbox"/>	Show CIPClient Download Link		<input type="checkbox"/>			
<input type="checkbox"/>	Temp. Part Prefix (ex: TMP-)					
<input type="checkbox"/>	Full Text Search Enabled		<input checked="" type="checkbox"/>			

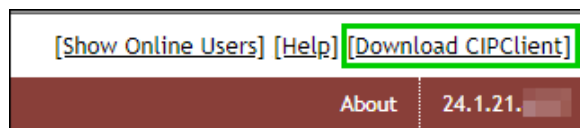
Edit Show CIP Client Download Link

3. Select the checkbox for **Show CIPClient Download Link** and click the **Save** button , or click **Cancel** to discard changes.

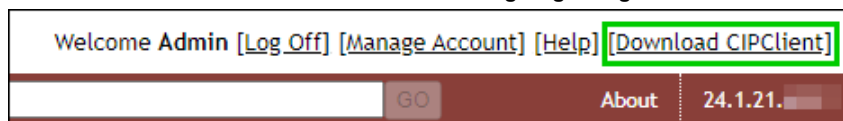
<input type="checkbox"/>	CIP Base URL (ex: http://127.0.0.1/CIP-E)	http://servername/CIP-E
<input type="checkbox"/>	Component Company Action Link	Enabled: <input type="checkbox"/> Name: Url:
<input type="checkbox"/>	Reuse Module Directory (ex: M:\ReuseModules\)	
<input checked="" type="checkbox"/>	Show CIPClient Download Link	<input checked="" type="checkbox"/>

Save Configuration Setting for Show CIP Download Link

After making this change, the **Download CIPClient** link appears when you refresh the page. The download link will be available from the landing/home page before logging in, and from any CIP page when logged in.



CIPClient Link on CIP Landing/Login Page



CIPClient Link on any CIP Page when Logged In


To download the CIP client, open CIP from a standard browser and click the **Download CIPClient** link.

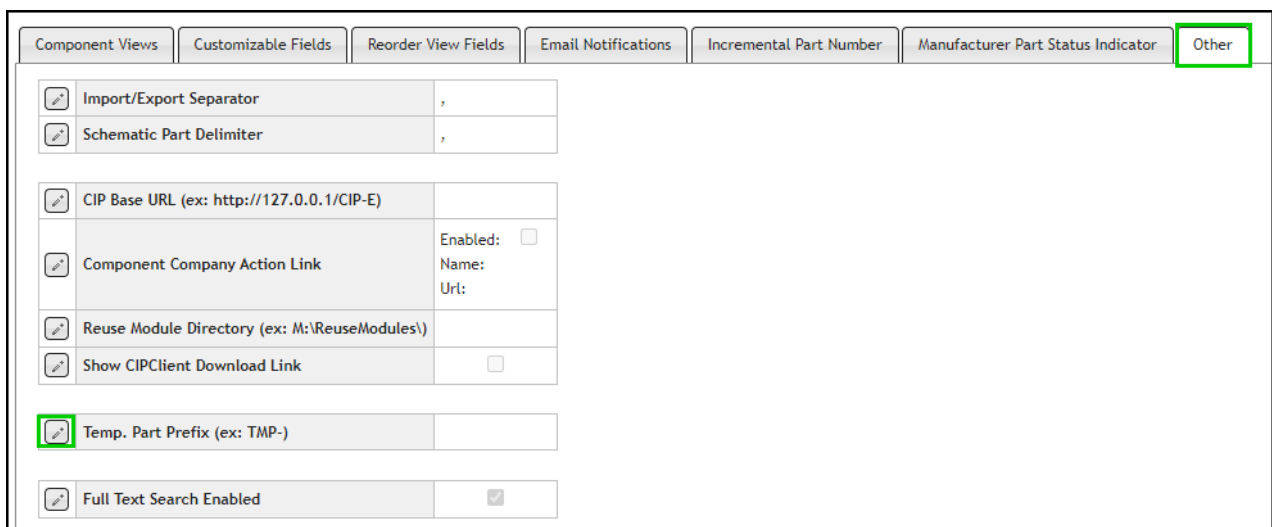
3.3.9.8 Temp Part Prefix









TMP parts are created with a prefix and incremented by one from the previous entry. The default temp part prefix for a CIP that doesn't have any temp part is **TMP-**.

When CIS is used to create TMP parts, the prefix will be based on user CIS settings. For a system that has numerous prefixes already in use, you will need to configure a prefix for CIP. Once configured, new TMP parts will use the configured prefix.



To configure the Temp Part Prefix

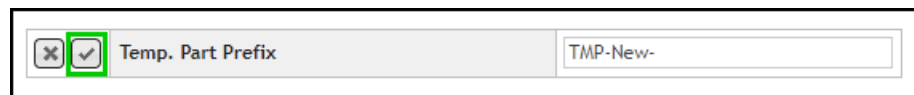
1. Select the **Admin > Configuration** menu, then click the **Other** tab.
2. Select the **Edit** button  for **Temp Part Prefix**.




Component Views	Customizable Fields	Reorder View Fields	Email Notifications	Incremental Part Number	Manufacturer Part Status Indicator	Other
	Import/Export Separator					,
	Schematic Part Delimiter					,
	CIP Base URL (ex: http://127.0.0.1/CIP-E)					
	Component Company Action Link		Enabled: <input type="checkbox"/>	Name:		Url:
	Reuse Module Directory (ex: M:\ReuseModules\)					
	Show CIPClient Download Link					<input type="checkbox"/>
	Temp. Part Prefix (ex: TMP-)					
	Full Text Search Enabled					<input checked="" type="checkbox"/>

Configure Temp Part Prefix

3. Enter the prefix you want to use. Then click the **Save** button , or click **Cancel**  to discard changes.



		Temp. Part Prefix	TMP-New-
---	---	-------------------	----------

Save Configuration for Temp Part Prefix

3.3.9.9 Enable/Disable Full Text Search




Full text search enables you to enter a text string into [Keyword search](#) that may not have an exact match to strings.

Full text search may run slower if you have not allocated sufficient resources to your SQL server. You may disable to switch to original search functionality.

To enable or disable full text search,

1. Select the **Admin > Configuration** menu, then click the **Other** tab.

The screenshot shows the 'Other' configuration tab in the CIP software. The 'Full Text Search Enabled' checkbox is checked and highlighted with a green box. Other settings include 'Import/Export Separator', 'Schematic Part Delimiter', 'CIP Base URL', 'Component Company Action Link', 'Reuse Module Directory', 'Show CIPClient Download Link', and 'Temp. Part Prefix'.

2. Select the **Edit** button  for **Full Text Search Enabled**.
3. By default, the full text search is disabled after a fresh install. Select the checkbox to change the setting for **Full Text Search Enabled** and click the **Save** button , or click **Cancel**  to discard changes. Note that this may take several minutes to update the database.

This close-up shows the 'Full Text Search Enabled' checkbox, which is checked and highlighted with a green box. The 'Save' button is also highlighted with a green box.

When enabled or disabled, this setting applies to the keyword search functionality within CIP for all users. This is not a user configurable option.

3.3.9.10 Enable Download of Ultra Librarian Models

Ultra Librarian® functionality enables users with appropriate permissions to download symbols and/or footprints and update corresponding part information. With the use of the CIP client, symbols and footprints may be downloaded when a TMP part created or can be added to existing parts.

Ultra Librarian can be configured to download symbols and footprints to a common configured location or [individually as each user downloads](#) from *Ultra Librarian*. Defining a common location enables easy access to symbols and footprints to everyone after download. Individual download locations provide a layer of control to prevent duplicate symbols and footprints from being added to the common corporate library. When no common directory has been configured, each user will be presented with a dialog to select download locations each time a user performs a model export or TMP part creation with *Ultra Librarian* option selected.


The *Ultra Librarian* Model Download is enabled by default and may be disabled using configuration options in the **Admin > Configuration > Other**.

Note: When configured to work with System Capture plugin and Ultra Librarian is enabled, common directory must be also be configured.

To configure a common directory for Ultra Librarian downloaded models

1. Select the **Admin > Configuration** menu, then click the **Other** tab.

Component Views	Customizable Fields	Reorder View Fields	Email Notifications	Incremental Part Number	Manufacturer Part Status Indicator	Other
<input type="checkbox"/>	Import/Export Separator					,
<input type="checkbox"/>	Schematic Part Delimiter					,
<input type="checkbox"/>	CIP Base URL (ex: http://127.0.0.1/CIP-E)					
<input type="checkbox"/>	Component Company Action Link	Enabled: <input type="checkbox"/>				Name: Url:
<input type="checkbox"/>	Reuse Module Directory (ex: M:\ReuseModules\)					
<input type="checkbox"/>	Show CIPClient Download Link					<input type="checkbox"/>
<input type="checkbox"/>	Temp. Part Prefix (ex: TMP-)					
<input type="checkbox"/>	Full Text Search Enabled					<input checked="" type="checkbox"/>
<input type="checkbox"/>	Enable Download of Ultra Librarian Models					<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Ultra Librarian Common Directory Settings					
<input type="checkbox"/>	Enable Common Directory					<input type="checkbox"/>

2. Select the **Edit** button  for **Ultra Librarian Common Directory Settings**.
3. Select the checkbox to **Enable Common Directory**. The settings for each type of models appear.

<input checked="" type="checkbox"/>	Enable Download of Ultra Librarian Models			<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Ultra Librarian Common Directory Settings			
<input checked="" type="checkbox"/>	Enable Common Directory			<input checked="" type="checkbox"/>
	OrCAD Capture Settings			
	Common Symbol Directory			\\server\sampleULLib\orcad_symbol
	Save Schematic Symbols to Single OLB	Enabled <input checked="" type="checkbox"/>		OLB Name UL.OLB
		All schematics will be added to the OLB defined above in the Common Symbol Directory		
	Duplicate Symbol Handling			Skip
	System Capture Settings			
	Common Symbol Directory			\\server\sampleULLib\ULsyscapmodels
	Duplicate Symbol Handling			Skip
	Shared Settings			Skip
	Common Footprint Directory			\\server\sampleULLib\footprints\symb
	Common Pad Directory			\\server\sampleULLib\footprint\pads
	Common STEP Directory			\\server\sampleULLibrary\3dstep

4. Enter the directory path for OrCAD Capture models that will be downloaded to the **Common Symbol Directory**. Make sure that users performing downloads have Read/Write/Modify permissions to these directory locations. In order to save **Enable Common Directory** setting, this directory path field must be configured when the [Transfer Fields to Design](#) settings is configured for **OrCAD CIS DBC**, **OrCAD using CIP**, or **CIP and System Capture**.
5. If you want to have all OrCAD symbols downloaded to a single OLB file, select the checkbox to **Save Schematic Symbols to Single OLB** and enter the name of the OLB you want to have all symbols saved to.
6. Configure options for the handling of models that have the same name. Symbols are generally named with the Manufacturer Part Number. When a part is downloaded from 2 different manufacturers, the symbol name may be the same. When multiple users download models that have the same part number or downloaded footprint, padstack or step files name are the same. The configured rule will be applied to both OrCAD Symbol names as well as footprint, padstack and step file naming.
 - a. Skip - Schematic symbol names, footprint, pad or step filenames found in the configured location will be preserved.
 - b. Overwrite - Schematic symbol names, footprint, pad or step filenames found in the configured location will be overwritten with the same name.
 - c. Append Number - Schematic symbol names, footprint, pad or step filenames found in the configured location will be saved to a new name with **_1**, **_2**, etc appended.
7. Enter the directory path for Common Footprint, Pad and STEP directory. Make sure that users performing downloads have Read/Write/Modify permissions to these directory locations. This field must be configured before saving the **Enable Common Directory** setting.
8. Enter the directory path for System Capture models that will be downloaded to the **Common Symbol Directory for System Capture**. Make sure that users performing downloads have Read/Write/Modify permissions to these directory locations. Configure options for the handling of models that have the same name. In order to save **Enable Common Directory** setting, this directory path field must be configured when the [Transfer Fields to Design](#) settings is configured for **System Capture** or **CIP and System Capture**.

To enable or disable Ultra Librarian downloads

1. Select **Admin > Configuration**. Then open the **Other** tab.

Component Views	Customizable Fields	Reorder View Fields	Email Notifications	Incremental Part Number	Manufacturer Part Status Indicator	Other
	Import/Export Separator		,			
	Schematic Part Delimiter		,			
	CIP Base URL (ex: http://127.0.0.1/CIP-E)					
	Component Company Action Link	Enabled:	<input type="checkbox"/>	Name:		
	Reuse Module Directory (ex: M:\ReuseModules\)			Url:		
	Show CIPClient Download Link		<input type="checkbox"/>			
	Temp. Part Prefix (ex: TMP-)					
	Full Text Search Enabled		<input checked="" type="checkbox"/>			
	Enable Download of Ultra Librarian Models		<input checked="" type="checkbox"/>			
	Ultra Librarian Common Directory Settings					
	Enable Common Directory		<input type="checkbox"/>			

2. Select the **Edit** button for **Enable Download of Ultra Librarian Models**

	Enable Download of Ultra Librarian Models	<input checked="" type="checkbox"/>
	Ultra Librarian Common Directory Settings	
	Enable Common Directory	<input type="checkbox"/>

	<input checked="" type="checkbox"/>	Enable Download of Ultra Librarian Models	<input checked="" type="checkbox"/>
		Ultra Librarian Common Directory Settings	
		Enable Common Directory	<input type="checkbox"/>

	<input checked="" type="checkbox"/>	Enable Download of Ultra Librarian Models	<input type="checkbox"/>
--	-------------------------------------	---	--------------------------

	Enable Download of Ultra Librarian Models	<input type="checkbox"/>
--	---	--------------------------

3. By default, the **Enable Download of Ultra Librarian Models** option is enabled. Select the checkbox to change the setting for **Enable Download of Ultra Librarian Models** and click the **Save** button , or click **Cancel** to discard changes. When disabled, the settings for **Ultra Librarian Common Directory Settings** are not shown.

3.3.9.11 Enable/Disable Virtual Librarian Service (VLS)

[Virtual Librarian Service \(VLS\)](#) helps engineering teams create their own exclusive part libraries

fast and accurately, allowing engineers to focus on innovation. To access VLS, click from the CIP menu bar or click the button shown on a Manufacturer PN. If you do not have a VLS account or do not want to see its options, you may disable it.

To enable or disable Virtual Librarian Service (VLS),

1. Select the **Admin > Configuration** menu, then click the **Other** tab.

Component Views	Customizable Fields	Reorder View Fields	Email Notifications	Incremental Part Number	Manufacturer Part Status Indicator	Other	System Capture
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>							




Component Information Portal

Username	Email
Admin	Admin@company.com
user1	user1@company.com

To enable the online users link to show on the login page

1. Select the **Admin > Configuration** menu, then click the **Other** tab.

Component Views	Customizable Fields	Reorder View Fields	Email Notifications	Incremental Part Number	Manufacturer Part Status Indicator	Other
<input type="checkbox"/> Import/Export Separator						
<input type="checkbox"/> Schematic Part Delimiter						
<input type="checkbox"/> CIP Base URL (ex: http://127.0.0.1/CIP-E)						
<input type="checkbox"/> Component Company Action Link			Enabled: <input type="checkbox"/>	Name:	Url:	
<input type="checkbox"/> Reuse Module Directory (ex: M:\ReuseModules\)						
<input type="checkbox"/> Show CIPClient Download Link						<input checked="" type="checkbox"/>
<input type="checkbox"/> Temp. Part Prefix (ex: TMP-)						
<input type="checkbox"/> Full Text Search Enabled						<input type="checkbox"/>
<input type="checkbox"/> Enable Download of Ultra Librarian Models						<input checked="" type="checkbox"/>
<input type="checkbox"/> Ultra Librarian Common Directory Settings						
<input type="checkbox"/> Enable Common Directory						<input type="checkbox"/>
<input checked="" type="checkbox"/> Show online users link on login page (/CIP-E/Account/OnlineUsers)						<input type="checkbox"/>

2. Select the **Edit** button  for **Show online users link on login page**.
3. By default, the link is not shown. Select the checkbox to change the setting to show the link and click the **Save** button , or click **Cancel**  to discard changes.

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Show online users link on login page (/CIP-E/Account/OnlineUsers)	<input checked="" type="checkbox"/>
-------------------------------------	---	-------------------------------------

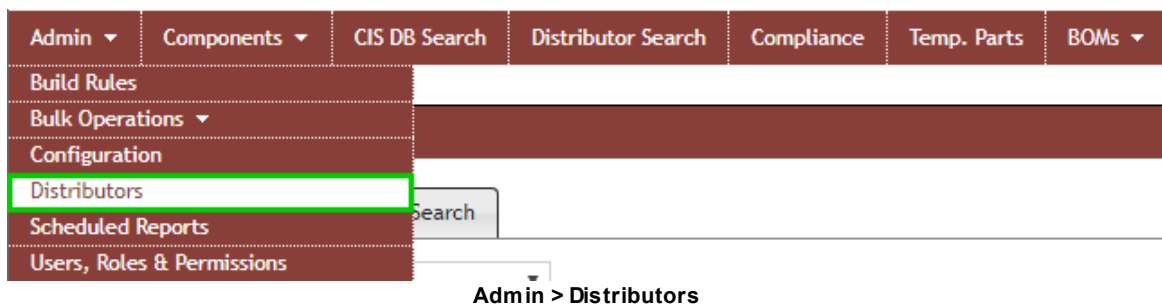
4. Log off CIP to see the link on the login page.

To Free a license

1. Check for online users.
2. Have an online user open CIP web page and log in.
3. Then have the user click the log off link in the upper right hand corner of CIP web page.

3.4 Distributors Administration

You can select the **Admin > Distributors** menu to synchronize dynamic distributor data, such as cost and quantity. You can also select this menu to configure distributors' regional and customer settings.



3.4.1 Distributor Sync

Project part data from a distributor is added to your CIP database after you conduct a [Distributor Search](#) and save the part information. When you need updated part information from a distributor, you can use the Distributor Sync feature that retrieves up-to-date distributor cost and quantity information for the Distributor Part Number. You can run Distributor Sync as needed or schedule the sync to run periodically.

Distributor Sync only updates the distributor cost and quantity information. All valid part numbers from configured manufactures will be synchronized. Data from distributors for component and manufacturer part fields may differ between distributors and are not updated during Distributor Sync to avoid overwriting manually edited data with potential blank manufacturer data.

Navigate to the **Admin > Distributors** page to open the Distributor Sync options.

▼ Run Distributor Sync On Demand

To start the Distributor Sync immediately, check the distributor(s) you want to sync: Arrow, DigiKey®, Future, Mouser®, or Newark. Click the **Sync** button. Notice how the Last Start timestamp changes to the current time/date. The synchronization process may take several minutes or more, based on the amount of distributor parts in your database, as well as the Internet connection to the distributors. While the Sync is running, you may continue normal activities within CIP.

When multiple distributors are selected, the order of processing is alphabetical. When you sync parts that have multiple distributors, the value of common manufacturer fields (e.g. Datasheet and RoHS compliant status) update when the last distributor is processed.

Admin - Distributor					
Distributor Sync					
	<input checked="" type="checkbox"/> Arrow	<input checked="" type="checkbox"/> Digi-Key	<input checked="" type="checkbox"/> Future	<input checked="" type="checkbox"/> Mouser	<input checked="" type="checkbox"/> Newark
	Last Start	Last End	Progress	Error	
<input type="button" value="Sync"/>					

Synchronize Distributor Data

During synchronization, the Progress column displays the current distributor being updated, as well as the current and total distributor part counts. An activity throbber, specifically a circular trail, remains in motion until the process is complete.

Note: When a Distributor Sync is in progress, the Sync button changes to a Cancel button. Clicking Cancel terminates the current Distributor Sync operation.

Admin - Distributor					
Distributor Sync					
	<input checked="" type="checkbox"/> Arrow	<input checked="" type="checkbox"/> Digi-Key	<input checked="" type="checkbox"/> Future	<input checked="" type="checkbox"/> Mouser	<input checked="" type="checkbox"/> Newark
	Last Start	Last End	Progress	Error	
<input type="button" value="Cancel"/>	12/13/2018 10:58:24 AM		Searching Digi-Key for part (31 of 2314)		

Distributor Sync Progressing

Once complete the Data Last Updated field for each distributor updates with a new date and time. If an error occurs, the Last Message column displays an error message.

Note: The Distributor Sync is unable to synchronize Arrow part numbers that are manually added or modified.

▼ Schedule Distributor Sync

To schedule the Distributor Sync to run periodically:

- 1) Make the following selections in the Schedule Sync section.
 - Select the Enable checkbox to add a check mark.

- Check the distributor(s) you want to schedule for the sync: Arrow, DigiKey®, Future, Mouser®, or Newark.
- Select the number of days between each sync period.
- Select the start time for the sync.

Schedule Sync							
Enable	Distributors	Every x Days	Start Time	Next Run	Last Run Start	Last Run Completed	Last Error
Save <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Arrow <input checked="" type="checkbox"/> Digi-Key <input type="checkbox"/> Future <input type="checkbox"/> Mouser <input type="checkbox"/> Newark	2	04:45 PM	8/30/2023 4:45:00 PM	8/28/2023 3:52:55 PM	8/28/2023 3:52:58 PM	
Digi-Key Configuration							
Country	United States						
Language	English						

Schedule Distributor Sync

2) Select **Save** to retain your settings.

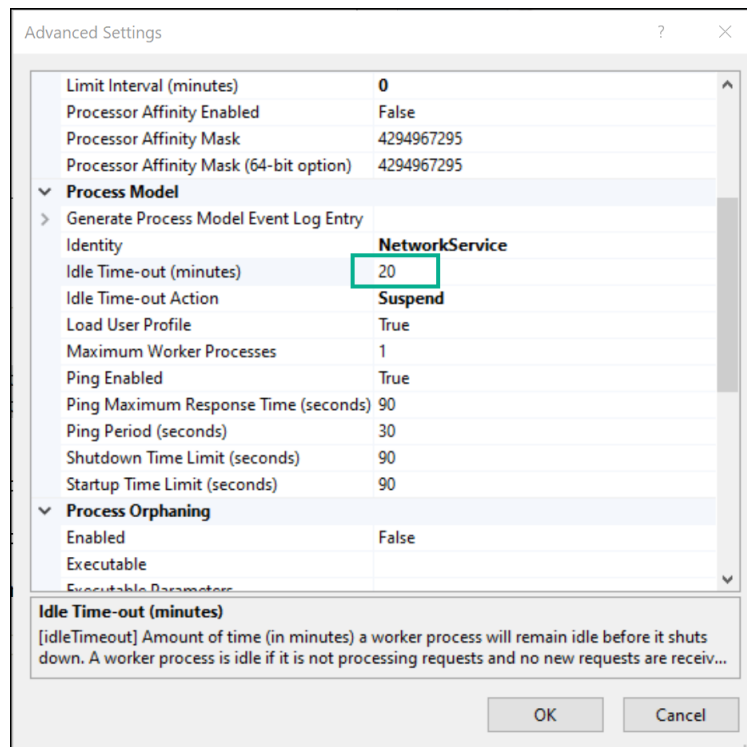
Once syncing starts, the progress information is the same as starting [Distributor Sync on demand](#).

Note: The Next Run time may show a date in the past. The sync will start within 15 minutes after you schedule the sync for this case.

If you suspect scheduled sync or reports are not running for some reason, review the information in the section [CIP Scheduler Service not running](#) to determine how to get this process started again.

▼ Scheduled Distributor Sync not finishing:

When you can run a sync manually and see it finish but the schedule sync runs without finishing, it is most like that the CIP web application timed out and shut down before your entire set of parts has completed processing. Web server user activity time out is configured for 20 minutes by default. The schedule sync task runs without user activity and requires a longer time out period. Contact your IT administrator to extend the time out for the CIP_AppPool. The CIP_AppPool setting can be changed in the **Advanced Settings** for the Application Pool in the **Internet Information Services (IIS) Manager** that hosts the CIP Web application. The time out setting is shown in the following figure.



3.4.2 Configure Distributors

Distributors that allow regional settings in their API include Digikey, Mouser and Premier/Farnell/Newark. Users with configure distributors permissions will be able to change regional settings. Premier/Farnell/Newark distributor also provides settings for Customer ID and Customer Key and user credentials. Distributors that do not support regional settings in the API are not configurable.

DigiKey Configuration

The DigiKey Configuration option allows privileged users to change the applicable **Country** and **Language** for DigiKey searches as provided by DigiKey. Prices and currency will vary with different combinations of these fields. Select the desired options from the list, then click **Save**. Click **Cancel** to discard changes.

Digi-Key Configuration	
Country	United States ▾
Language	English ▾
Words from various languages may not transfer to the database or design correctly.	
<input type="button" value="Cancel"/> <input type="button" value="Save"/>	

Digikey Configuration

Mouser Configuration

The Mouser Configuration option allows privileged users to change the applicable Country, Language, and Currency for Mouser searches as provided by Mouser. Prices and currency will vary with different combinations of these fields. Select the desired options from the list, then click **Save**. Click **Cancel** to discard changes.

Mouser Configuration	
Country	United States <input type="button" value="v"/>
Language	English <input type="button" value="v"/>
Currency	USD <input type="button" value="v"/>
<input type="button" value="Cancel"/> <input type="button" value="Save"/>	

Mouser Configuration

Premier/Farnell/Newark Configuration

The Premier/Farnell/Newark Configuration option allows privileged users to change the applicable Customer ID, Customer Key, and Country for Premier/Farnell/Newark searches. Customers can view customer-specific part pricing, based on their Customer ID and Customer Key. Select/enter the desired options, then click **Save**. Click **Cancel** to discard changes.

Note: The Customer ID and Customer Key fields are not required. These fields must be left blank if you do not have a valid customer ID and Customer Key. Customer-specific pricing may vary from Newark's website (www.newark.com).

Premier/Farnell/Newark Configuration	
Customer ID	<input type="text"/>
Customer Key	<input type="text"/>
Country	US <input type="button" value="v"/>
<input type="button" value="Cancel"/> <input type="button" value="Save"/>	

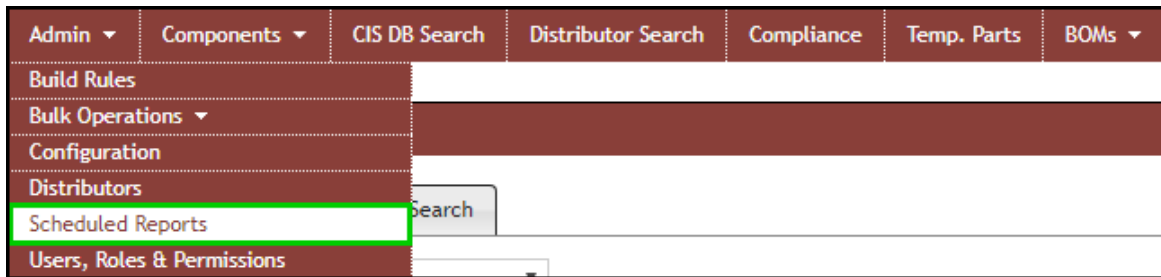
Premier/Farnell/Newark Configuration

3.5 Scheduled Reports

Scheduled Reports may be created from any saved Global [Search](#). You can create multiple reports to run at different schedules.

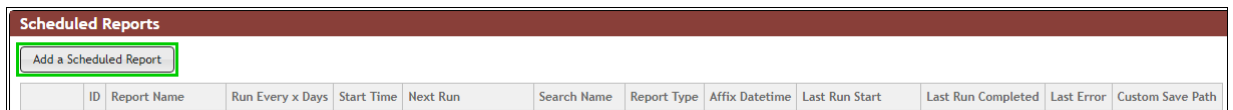
To create a report task for a scheduled report

1. Select the **Admin > Scheduled Reports** menu.



Admin > Scheduled Reports

- Click the **Add a Scheduled Report** button.



- Enter the following configuration settings for your report task. The **Example File Name** toward the bottom will update as you enter values that affect the file name, showing how the report file name will look with your settings.

Add Report Task ✕

Report Name:

Run Every x Days:

Start Time:

Search Name:

Report Type: CSV Excel

Affix Datetime: None Prefix Suffix

Custom Save Path:

Example File Name: Needs Models_20250110T101704.csv

[More Info](#) Cancel Add

- Report Name** - Specify a file name for your report. The file name may have a date and time stamp pre- or appended.
- Run Every x Days** - Specify the periodicity of your report. Shortest period of automated reports is daily.
- Start Time** - Specify a start time to run the report, whether it be off-hours or any other time. After specifying the time, a report may be generated immediately if the report has not run within 24 hours.
- Search Name** - Any saved global searches will be available to use for your schedule report task. Select a saved global search.

- e. **Report Type** - Specify the report format generated in Excel or CSV format.
- f. **Affix Datetime** - Configure to include the date and time stamp as part of the output report name.
- g. **Custom Save Path** - Select this to save the report to a location other than the default. As shown, this path is relative to the server (e.g. C:\TEMP would refer to the location on the CIP web server, not a user's machine).

Custom Save Path:

This path must be specified relative to the server.

Custom Save Path

4. Click the **Add** button to save your configuration. Your report task shows in the list of all configured report.

Scheduled Reports												
Add a Scheduled Report												
	ID	Report Name	Run Every x Days	Start Time	Next Run	Search Name	Report Type	Affix Datetime	Last Run Start	Last Run Completed	Last Error	Custom Save Path
	1	Needs Models_	1	12:00 AM	1/3/2025 12:00:00 AM	CIS Export Test	CSV	Suffix	1/2/2025 8:02:24 AM	1/2/2025 8:02:26 AM		

Scheduled Reports

Reports	
Needs Models 20220203T153859.csv	First report created

Output of Scheduled Reports

To view, download or delete generated reports,

1. Click on the row with your report name. The output of a report task shows in the bottom. When you have more than 1 task configured, report for each shows as you click on each row.
2. Click the download button to download a report within a schedule task.

Scheduled Reports

Add a Scheduled Report

	ID	Report Name	Run Every x Days	Start Time	Search Name
	15	All Parts	2	01:45 AM	All Parts with library
	13	Incomplete_Models	1	03:30 PM	Parts Needing Models

Reports

- Incomplete_Models 20220203T000009.xlsx
- Incomplete_Models 20220202T000027.xlsx
- Incomplete_Models 20220201T000011.xlsx
- Incomplete_Models 20220130T153045.xlsx
- Incomplete_Models 20220129T153044.xlsx
- Needs_Models 20220128T000051.xlsx

Download

3. Click the delete button to remove a specific report. You are required to confirm before the report is deleted.

To Edit a scheduled task

1. Click the **Edit**, button to open the Edit Report Task form. You may change any of the information configured, including report names.
2. You may change any of the information configured during add report task. Make your changes and click **Save**. Note that a new report will not be generated if already created within the period specified.

Scheduled Reports

Add a Scheduled Report

	ID	Report Name	Run Every x Days	Start Time	Search Name	Report Type	Affix Datetime	Last Run Start	Last Run Completed	Last Error
	15	All Parts	2	01:45 AM	All Parts with library Info	CSV	None	2022-02-02T01:45:02.617	2022-02-02T01:45:02.857	
	13	Needs_Models	1	12:00 AM	Parts Needing Models	Excel	Suffix	2022-02-03T00:00:09.18	2022-02-03T00:00:10.15	

Edit Report Task

Report Name:

Run Every x Days:

Start Time:

Search Name:





Report Type: CSV Excel













Affix Datetime: None Prefix Suffix

Example File Name: Incomplete_Models 20220203T145500.xlsx


[More Info](#)

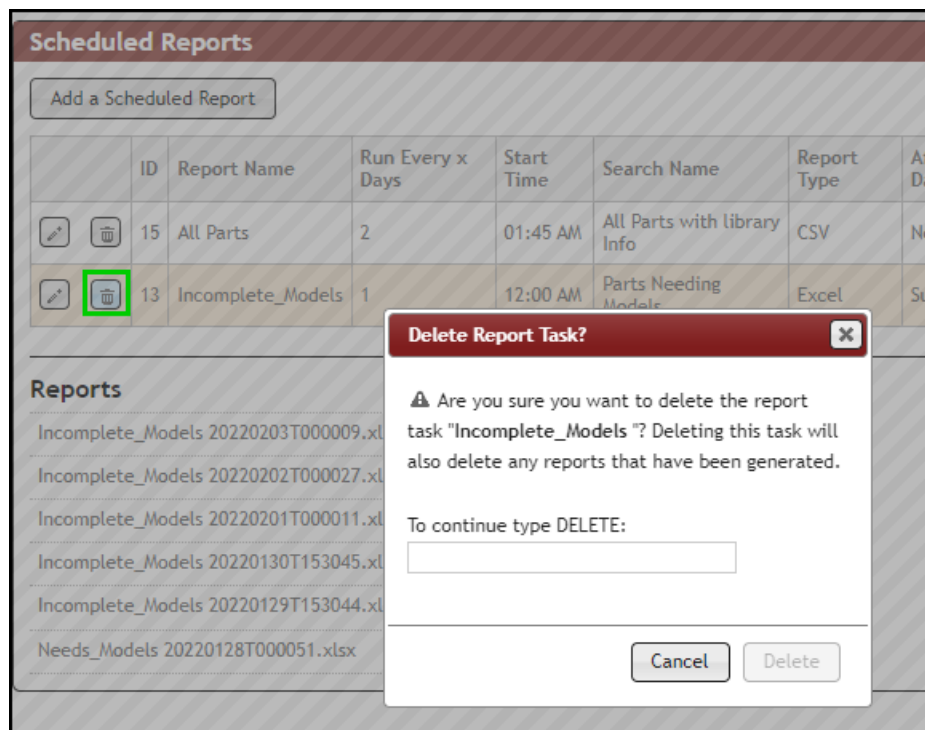
- When date time is include in the report name of a report task, reports prior to the configuration change also shows when you click on the row of your report.

Scheduled Reports										
Add a Scheduled Report										
	ID	Report Name	Run Every x Days	Start Time	Search Name	Report Type	Affix Datetime	Last Run Start	Last Run Completed	Last Error
 	15	All Parts	2	01:45 AM	All Parts with library Info	CSV	None	2022-02-02T01:45:02.617	2022-02-02T01:45:02.857	
 	13	Incomplete_Models	1	12:00 AM	Parts Needing Models	Excel	Suffix	2022-02-03T00:00:09.18	2022-02-03T00:00:10.15	

Reports	
Incomplete_Models 20220203T000009.xlsx	 
Incomplete_Models 20220202T000027.xlsx	 
Incomplete_Models 20220201T000011.xlsx	 
Incomplete_Models 20220130T153045.xlsx	 
Incomplete_Models 20220129T153044.xlsx	 
Needs_Models 20220128T000051.xlsx	 

To Delete a scheduled task

- Click the **Delete**,  button for the report task you no longer need.



The screenshot shows the 'Scheduled Reports' window with a table of tasks. The 'Delete' button (trash icon) for the task 'Incomplete_Models' (ID 13) is highlighted with a green box. A modal dialog titled 'Delete Report Task?' is open, asking for confirmation to delete the task and any associated reports. The dialog includes a warning icon, a text prompt, a text input field for typing 'DELETE', and 'Cancel' and 'Delete' buttons.

- You are asked to confirm deletion by typing "DELETE". Once confirmed, the configuration and all reports associated to the task are removed. You will no longer have access to deleted reported.

Physical location of reports

- The default report location is on the CIP web server, under <CIP_Install_Location>\Web\Reports\ID#. The ID# can be found in the ID column in the list of Scheduled Reports. If you've configured a **Custom Save Path** for a report, it will be saved there.
- If access to physical files is needed to work with scripts, request that IT (or someone with permission) shares the appropriate report folder(s).
- A new ID will be created when tasks with the same report name are deleted and recreated.

3.6 Users, Roles & Permissions Administration

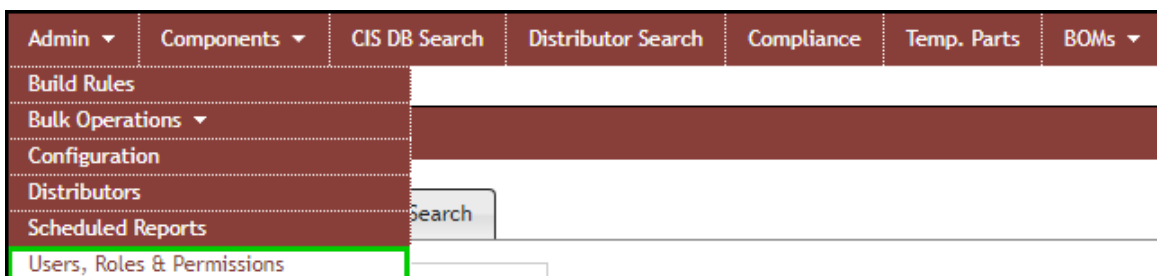
CIP can be utilized by a wide variety of users. The range of tasks each type of user can perform is controlled through the assignment of roles and permissions. Operations each user type (determined by role) can perform on the CIS database may include such tasks as creating, editing, searching, updating, and deleting parts, etc. Other users, for example, may only require CIP view and search capabilities and have a role where it is unnecessary to modify anything in the CIS/CIP database.

By default, there are four [default roles](#) that can be assigned to a CIP user:

- Read Only
- UpdateWithoutDelete
- UpdateWithDelete
- Admin

Additionally, users with permission to define roles can [create additional roles](#) or modify the default roles.

The User, Roles & Permissions menu item is only visible to users who are granted permission to modify Users, Roles or Permissions.

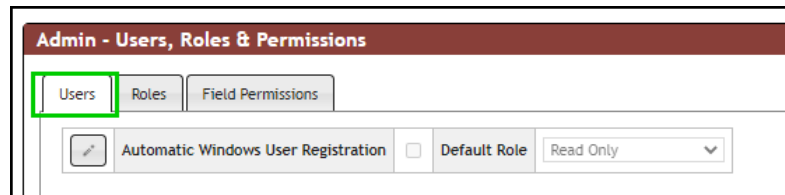


Admin > Users, Roles & Permissions

3.6.1 Manage User Accounts

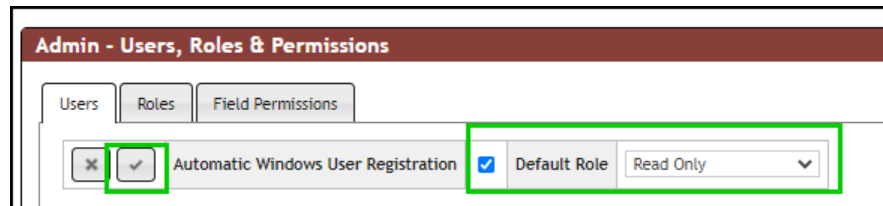
Users granted the [User Admin role permission](#) may create a user account, edit an existing user account, delete an existing user account, as well as manage user roles and permissions through the **Admin** tab and **Users, Roles and & Permissions** menu option.

A User Admin can enable the **Automatic Windows User Registration** option and set the **Default Role** for new users added in this fashion. This allows Windows domain users to automatically add themselves to CIP by clicking the Windows authentication button at the [CIP log in screen](#). The first time they do so their Windows domain user will be added to the CIP Users list and their role will be auto-assigned based on the configured default role.



User Administration

To enable this option, select the **Edit** button next to **Automatic Windows User Registration**. Select the check box next to the **Default Role** option and select role from the drop-down list. Click the **Save** button to save the settings.



Enable Auto User Account Option

3.6.1.1 Creating User Accounts

A user can be added as a Windows user or local CIP user. When adding a user as a Windows user, a password is not required. The username of the Windows user must be valid.

To add a new Windows user account into CIP, enter the Windows username, first and last name, email address, and select the Windows checkbox. The optional fields for adding a new Windows user include the email, first and last names. By default, the CIP server will search the Active Directory domain it belongs to when checking the validity of Windows logins. If there are multiple domains in your company's environment and CIP has not been configured for this environment, you may not find Windows usernames for users belonging to different domains. Contact your CIP Admin or your IT team to make changes to support multiple domains for your CIP installation. Information on setup can be found in the appendix of the CIP installation guide.

Email notifications can only function properly when a correct email address is provided. The figure that follows shows a warning alert that displays when CIP is unable to identify a valid username in the Active Directory.

Admin - Users, Roles & Permissions

Users Roles Field Permissions

Automatic Windows User Registration Default Role Read Only

Unable to find user in active directory.

Num.	Windows	Username	First Name	Last Name	Email	Password	Role	Notifications
0	<input type="checkbox"/>	Admin			blank@blank.com		Admin	<input type="checkbox"/> Insert <input type="checkbox"/> Update <input type="checkbox"/> Delete
	<input checked="" type="checkbox"/>	Eng_Mgr	Eng	Manager	Eng@company.com		Admin	<input type="checkbox"/> Insert <input type="checkbox"/> Update <input type="checkbox"/> Delete

Creating User Account: Windows or CIP Local User

To add a new local CIP user account, enter a username, first and last name, email address, and password. You are not allowed to save a user account if the password entered fails to conform to the following standards.

Passwords must be at least 6 characters AND include the following:

- Passwords must have at least one lowercase ('a'-'z')
- Passwords must have at least one uppercase ('A'-'Z')
- Passwords must have at least one digit ('0'-'9')
- Passwords must have at least one non-letter/non-digit character.

Note: When adding a new Windows user, the Username field populates with available users as the name is typed into the field. This list may take a moment to populate.

Admin - Users, Roles & Permissions

Users Roles Field Permissions

Automatic Windows User Registration Default Role Read Only

Unable to find user in active directory.

Num.	Windows	Username	First Name	Last Name	Email	Password	Role	Notifications
0	<input type="checkbox"/>	Admin			blank@blank.com		Admin	<input type="checkbox"/> Insert <input type="checkbox"/> Update <input type="checkbox"/> Delete
	<input checked="" type="checkbox"/>	Eng_Mgr	Eng	Manager	Eng@company.com	Password * ***** Passwords must be at least 6 characters. Passwords must have at least one lowercase ('a'-'z'). Passwords must have at least one uppercase ('A'-'Z'). Passwords must have at least one digit ('0'-'9'). Passwords must have at least one non-letter/non-digit character.	Admin	<input type="checkbox"/> Insert <input type="checkbox"/> Update <input type="checkbox"/> Delete

Creating New CIP User Account: Alert Message With Entry of Invalid Password


Next, select a Role for the account. Four [default roles](#) have been pre-defined. If this user wishes to receive Email Notifications, select the appropriate checkbox next to the desired Notifications for Insert, Update, and Delete. After entering the new user information, click on the Add button to create the new user account. Before a CIP User can receive Email Notifications, Email Notifications must be enabled through the **Admin > Configuration > Email Notifications** tab. The [Email Notifications](#) section of this document will guide an Admin through the email setup. You should create a second Admin user account if you change the Admin User password.










Num.	Windows	Username	First Name	Last Name	Email	Password	Role	Notifications
0	<input type="checkbox"/>	Admin			blank@blank.com		Admin	<input type="checkbox"/> Insert <input type="checkbox"/> Update <input type="checkbox"/> Delete
1	<input type="checkbox"/>	Eng_mgr	Eng	Manager	engmgr@company.com		Admin	<input type="checkbox"/> Insert <input type="checkbox"/> Update <input type="checkbox"/> Delete
	<input checked="" type="checkbox"/>	nancy	Nancy	Librarian	nancy@company.com		UpdateWithDelete	<input checked="" type="checkbox"/> Insert <input checked="" type="checkbox"/> Update <input checked="" type="checkbox"/> Delete

Define Role for New User


User permissions for the default user roles are provided in the section on [default roles](#). The Role Administration section will also guide you through defining new roles.

3.6.1.2 Editing an Existing Account










To edit an existing account click on the **Edit**  button on the User Administration screen for the account you need to edit.

Num.		Windows	Username	First Name	Last Name	Email	Password	Role
0	 	false	Admin			blank@blank.com		Admin
1	 	false	EngMgr	Eng	Manager	EngMgr@company.com		Admin
2	 	true	nancy	Nancy	Librarian	nancy@company.com		UpdateWithDelete
3	 	false	Eng1	Eng1	Designer	eng1@company.com		Read Only
		Windows	Username	First Name	Last Name	Email	Password	Role
	<input type="checkbox"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Admin <input type="text"/>

User Administration Edit

Editing an account allows the Administrator to change the email address, password, role type, or email notification associated with the account. Once an acceptable change is made, click the **Save**  button to update and save the account.

Usernames are uneditable. If a user needs to change the name on the account, delete the account and generate a new one.

Num.		Windows	Username	First Name	Last Name	Email	Password	Role
0	 	false	Admin			blank@blank.com		Admin
1	 	false	EngMgr	Eng	Manager	EngMgr@company.com		Admin
2	 	true	nancy	Nancy	Librarian	nancy@company.com		UpdateWithDelete
3	 	<input type="checkbox"/>	Eng1	<input type="text"/>	Designer	<input type="text"/>	<input type="text"/>	<input type="text"/> Admin <input type="text"/> Read Only <input type="text"/> UpdateWithDelete <input type="text"/> UpdateWithoutDelete
		Windows	Username	First Name	Last Name	Email	Password	Role
	<input type="checkbox"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Admin <input type="text"/>


User Administration Update











You can change a CIP user to a Windows user, when the Windows user name is the same, by clicking the **Edit**  button. Select the checkbox for Windows and click the **Save**  button.

If the CIP username is different from the Windows username, you will need to remove the CIP username and then add the Windows username.

3.6.1.3 Deleting an Existing Account

When a CIP account is deleted, it is completely removed.

To delete an account select the **Delete**  button for the account that you want to remove.

Num.		Windows	Username	First Name	Last Name	Email	Password	Role
0	 	false	Admin			blank@blank.com		Admin
1	 	false	Eng_mgr	Eng	Manager	engmgr@company.com		Admin
2	 	true	nancy	Nancy	Librarian	nancy@company.com		UpdateWithDelete
3	 	false	Eng1	Eng1	Designer	eng1@company.com		Read Only
4	 	false	Eng2	Eng2	CE	eng2@company.com		UpdateWithoutDelete

User Administration Delete

3.6.1.4 Check Licenses In Use

You may check the licenses that are currently being used at any time, by opening a web browser and visiting [http://\[Base CIP URL\]/Account/onlineusers](http://[Base CIP URL]/Account/onlineusers). All logged in users are listed on the page. The link to [OnlineUsers](#) page may be configured to show on the login page.

For example: if your Base CIP URL is <http://ServerName/CIP-E>, navigate to <http://ServerName/CIP-E/Account/onlineusers>.

Component Information Portal	
Username	Email
Admin	Admin@company.com
user1	user1@company.com

Verify CIP Licenses Currently In Use

3.6.2 Manage Roles

Role administration can be performed from the **Admin > Users, Roles and Permissions > Roles tab**. Roles can be added, modified or deleted from this tab. CIP consists of administrative and user permissions. Any of these types of permissions can be assigned to any role.

Admin - Users, Roles & Permissions						
Users	Roles	Field Permissions	Hide Rule			
Role	All	Create TMP Parts	Edit TMP Parts	Delete TMP Parts	Create Formal Parts	Edit Formal Parts

Role Administration

3.6.2.1 Default Roles

Four default roles are available:

- ▶ Read Only Role

The default Read Only role has similar permissions as that of the CIS user. The user can view, query, and search, as well as complete other tasks. Users with the Read Only role can view and search for parts within the

CIS Database using CIP. To enable the Read Only user to create Temp Parts from distributor search, update the Read Only Role to include Add Manufacturer Parts. The Read Only user cannot modify parts within the database.

► UpdateWithoutDelete Role

The default UpdateWithoutDelete role can perform all functions of the default Read Only role, as well as add new formal parts and edit existing parts. This role may be assigned to a Librarian or Component Engineer.

► UpdateWithDelete Role








The default UpdateWithDelete role can perform all functions of the default UpdateWithoutDelete role, and can also delete both Temp and Formal parts from the database. This role may be assigned to a Librarian or Component Engineer.

► Admin Role

The default Admin role has the superset of all administrative and user permissions. Users who have been assigned the default Admin role can do everything that the UpdateWithDelete user can do, and they also have access to the Admin tab. The Admin tab includes options for: User Administration, Role Administration, Rule Administration, Email Notification setup, Customizable UserFieldXX setup, Bulk Operations and Distributor Administration. An administrative role would most likely be assigned to an Engineering Manager, IT personnel or potentially Librarians or Component Engineers.

The Admin Role is the only role that cannot be modified or deleted.

The predefined roles, Read Only, UpdateWithoutDelete, and UpdateWithDelete, can be modified by anyone who is granted the Define Roles permission. To restore any of these roles to the default settings, click on the applicable **Restore** button at the bottom of the Role Administration tab. The Admin role is a system role that cannot be changed by anyone.

	Role	Create TMP Parts	Edit TMP Parts	Delete TMP Parts	Create Formal Parts	Edit Formal Parts	Delete Formal Parts	Add Manufacturer Parts	Edit Manufacturer Parts	Delete Manufacturer Parts	Create BOMs	Delete BOMs	Create Global Searches
	Admin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 	Read Only	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 	UpdateWithDelete	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 	UpdateWithoutDelete	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 <input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="button" value="Restore Read Only"/> <input type="button" value="Restore UpdateWithDelete"/> <input type="button" value="Restore UpdateWithoutDelete"/>													

Role Administration Restore

3.6.2.2 User Role Permissions

User permissions pertain to permissions that apply to parts and BOMs. User permissions can be assigned to any named role including the following:

Create TMP Parts	Edit TMP Parts	Delete TMP Parts	Create Formal Parts	Edit Formal Parts	Delete Formal Parts	Add Manufacturer Parts	Edit Manufacturer Parts	Delete Manufacturer Parts	Use Compliance Search	Create BOMs	Delete BOMs	Create Reuse Modules	Delete Reuse Modules
------------------------	----------------------	------------------------	---------------------------	-------------------------	---------------------------	------------------------------	-------------------------------	---------------------------------	-----------------------------	----------------	----------------	----------------------------	----------------------------

User Permissions That Can Be Assigned to a Role

▶ Create TMP Parts

A user with this permission is able to

- Create TMP parts from the Distributor Search tab.
- Create TMP parts from new part form.
- Create TMP parts from copy part form.
- Add new manufacturer part and associated distributor part when creating TMP parts from distributor search.
- Associate an existing manufacturer part when creating TMP parts from distributor search.

▶ Edit TMP Parts

A user with this permission is able to

- Edit TMP parts using the edit part form.
- Edit TMP parts data from distributor search by selecting overwrite component data.
- Add new manufacturer part and associated distributor part to an existing TMP part from distributor search.
- Associate an existing manufacturer part to an existing TMP part from distributor search.

▶ Delete TMP Parts

A user with this permission is able to

- Delete a TMP part and associated manufacturer and distributor parts.

▶ Create Formal Parts

A user with this permission is able to

- Create TMP and formal parts from the Distributor Search tab.
- Create TMP and formal parts from new part form.

- Create TMP and formal parts from copy part form.
- Add new manufacturer part and associated distributor part when creating TMP and formal parts from distributor search.
- Associate an existing manufacturer part when creating TMP and formal parts from distributor search.

▶ Edit Formal Parts

A user with this permission is able to

- Edit TMP and formal parts using the edit part form.
- Edit TMP and formal parts data from distributor search by selecting overwrite component data.
- Add new manufacturer part and associated distributor part to an existing TMP and formal part from distributor search.
- Associate an existing manufacturer part to an existing TMP and formal part from distributor search.

▶ Delete Formal Parts

A user with this permission is able to

- Delete a TMP and formal part and associated manufacturer and distributor parts.

▶ Add Manufacturer Parts

A user with this permission is able

- Add manufacturer parts to existing TMP or formal parts.

▶ Edit Manufacturer Parts

A user with this permission is able to

- Edit manufacturer parts using the edit manufacturer part form.
- Add distributor part to an existing manufacturer part when creating or updating a TMP or formal part from distributor search.
- Add distributor part using add distributor part form.

- Edit distributor part
- Delete distributor part

▶ Delete Manufacturer Parts

A user with this permission is able to

- Delete a manufacturer part and associated distributor parts from a TMP or formal part.

▶ Use Compliance Search

A user with this permission is able to use the [Compliance module's Search](#) tab.

▶ Create BOMs

A user with this permission is able to add parts into the BOMs table and import parts to the BOM.

▶ Delete BOMs

A user with this permission is able to delete BOM part numbers.

▶ Create Reuse Modules

A user with this permission is able to create and edit reuse modules.

▶ Delete Reuse Modules

A user with this permission is able to delete reuse modules.

3.6.2.3 Administrative Role Permissions

Administrative permissions that can be assigned to any named role include the following:


Create Global Searches	User Admin	Define Roles	Set Rules	Email Notification	Increment PN Format	Views, Custom Fields, Reorder Fields, BOM/Design Options, MFR PN Status, Other	System Capture	Sync Distributor and Compliance Data	Configure Distributors	Bulk Operations	Scheduled Reports
------------------------	------------	--------------	-----------	--------------------	---------------------	--	----------------	--------------------------------------	------------------------	-----------------	-------------------









Admin Permissions That Can Be Assigned to a Role

- Create Global Searches - A user with this permission is able to create, edit, and delete global searches that can be used by all users.
- User Admin – A user with this permission is able to view the [User Administration](#) menu items and manage users. This user can create, modify, and delete CIP users. Any users online status as well as last activity status may be viewed. [Email Notification for Individual Users](#) may also be managed by a user with this permission.
- Define Roles – A user with this permission can [create new roles](#), modify or delete an existing role as well as assign permissions to each new roles.
- [Set Rules](#) – A user with this permission can modify or delete existing build rules. The Rule Administration section provides detail description on how rules can be defined, modified or deleted.
- Email Notification – A user with this permission can enable [Email Notification](#) for Individual emails and for Email Aliases. Email notification configuration may be found in the [Configuration](#) menu item.
- [Incremental PN Format](#) – A user with this permission can define the format for the part number to be automatically incremented. The configuration of PN formats may be found in the [Configuration](#) menu item.
- [Views](#), [Custom Fields](#), [Reorder Fields](#), [BOM/Design Options](#), [MFR PN Status](#), [Other](#) – A user with this permission can access settings in these Admin > Configuration tabs: Component Views, Customizable Fields, Reorder View Fields, BOM/Design Options, Manufacturer Part Status Indicator, and Other.
- [System Capture](#) – A user with this permission can use the System Capture tab under Admin > Configuration.
- Sync [Distributor](#) and [Compliance](#) Data – A user with this permission can run or schedule a sync of Distributor data and Compliance data.
- [Configure Distributors](#) – A user with this permission can change distributor locale and language.
- [Bulk Operations](#) – A user with this permission can use the [Bulk Delete](#), [Bulk Rename](#), [Component View Mover](#), [Import](#), and [TMPPTS Import](#) features.
- [Scheduled Reports](#) – A user with this permission can create Scheduled Reports from any saved Global [Search](#).

3.6.2.4 Creating Roles

Roles can be created with any name. The Admin can assign permissions to a role when the role is created or modified at a later time.

To create a role, select **Admin > Roles & Permissions**. Type the name of the role into a blank table row and click the **Add** button. 

Users		Roles	Field Permissions								
	Role	Create TMP Parts	Edit TMP Parts	Delete TMP Parts	Create Formal Parts	Edit Formal Parts	Delete Formal Parts	Add Manufacturer Parts	Edit Manufacturer Parts	Delete Manufacturer Parts	
	Admin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
 	Read Only	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 	UpdateWithDelete	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
 	UpdateWithoutDelete	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
 	Purchasing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	









Restore Read Only Restore UpdateWithDelete Restore UpdateWithoutDelete

Role Administration Create

3.6.2.5 Modifying Roles

Modifying a role is similar to adding a role.








1. Click the **Edit** button that precedes the row of the role you want to modify.

	Role	Create TMP Parts	Edit TMP Parts	Delete TMP Parts	Create Formal Parts	Edit Formal Parts	Delete Formal Parts	Add Manufacturer Parts	Edit Manufacturer Parts	Delete Manufacturer Parts
	Admin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 	Read Only	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 	UpdateWithDelete	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 	UpdateWithoutDelete	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
 		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Restore Read Only Restore UpdateWithDelete Restore UpdateWithoutDelete


Modification of Role Administration








2. Click to place a check mark in each column you want to assign to the role you are updating.
3. Click the **Save Role** button to save the changes. Or click the **Cancel Edit Role** button to cancel changes.

	Role	All	Create TMP Parts	Edit TMP Parts	Delete TMP Parts	Create Formal Parts	Edit Formal Parts	Delete Formal Parts	Add Manufacturer Parts
	Admin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 	Read Only	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 	UpdateWithDelete	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 	Delete Role withoutDelete	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Role Administration: Save Update Button

3.6.2.6 Deleting Roles


To delete a role that was created, click the **Delete** button.  When you are prompted to confirm the deletion, click the **Delete** button.

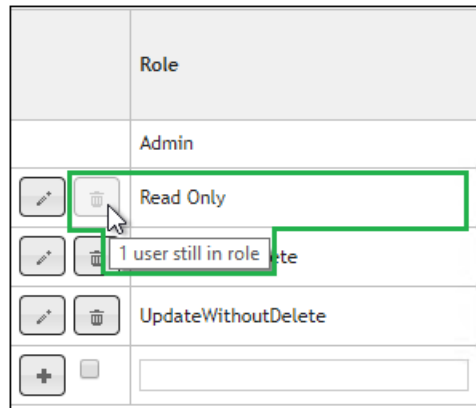
	Role	Create TMP Parts	Edit TMP Parts	Delete TMP Parts	Create Formal Parts	Edit Formal Parts	Delete Formal Parts	Add Manufacturer Parts	Edit Manufacturer Parts	Delete Manufacturer Parts
	Admin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
 	Read Only	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 	UpdateWithDelete	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
 	Delete Role withoutDelete	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Delete Role? ✕

⚠ Are you sure you want to delete the 'Read Only' role?

Role Administration: Delete Button

You cannot delete a role when a user is still assigned to the role. The image below shows the grayed-out **Delete** button  for the Read Only role is disabled. You can hover your cursor over the disabled button to see the number of users still assigned to the role.

**Role Administration: Delete Button Disabled**

3.6.3 Field Permissions

The administration of field permissions is performed from the selection of **Admin > Users, Roles & Permissions** menu > **Field Permissions** tab.

**Field Permission Administration**

The users' permission to edit or view a field can be configured by role. By default, all roles include permission to view and edit all configured fields. The permission for the Admin role are uneditable. The field permission for each role and category are controlled individually.

To make changes, select the role for each table you wish to change. Deselect fields that you do not want the user to either see or edit. Once you make any changes, you will see a warning immediately notifying you that a change has been made. The changed fields are highlighted as yellow. If you want to keep the changes, select **Save** button. Once changes are accepted, the warning and highlighting disappears.

Users Roles Field Permissions

Role UpdateWithoutDelete ▾

Table CIP_Capacitors ⚠ Values changed save or cancel before continuing.

3 [x] [✓]

Field Level Permissions

Field	<input checked="" type="checkbox"/> Visible	<input type="checkbox"/> Editable
PART_NUMBER	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Part Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Value	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PCB Footprint	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Schematic Part	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Number of Pins	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Operating Temperature Maximum	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Operating Temperature Minimum	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

2

1

Edit Field Permissions




The changes take effect the next time a user with the changed role opens a new page in CIP. The following example shows a user who can edit a part but not the Part_Number or the Schematic part.

Note: Users who are not allowed to edit Part_Number will not be able to create formal parts.

PART_NUMBER	EMA-0000128V22	Part Type	EMA\Ceramic\SMD\0805
Description	CAP, Ceramic, SMD, 0.1 uF, 5.0 %, 50	Value	0.1 uF
PCB Footprint	CAPC2012X100N	Schematic Part	CAPACITORS\CAP
Number of Pins	2	Operating Temperature Maximum	125 C

Example Of User With Partial Field Edit Permissions

Fields that have not been configured as visible will be designated with an alert triangle, ⚠ next to the field name as shown in the following figure.

Implementation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Implementation Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PSpiceTemplate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Device Type 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
High Ripple Current	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Endurance	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Custom URL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
UserField04 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
UserField05 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Fields Without Visibility Have Alert Triangles

3.6.4 Hide Rule

A rule can be defined to hide parts from users in a selected role. For example, if you do not want electrical engineers to be able to find and use obsolete parts, you can create a rule from the **Admin > Users, Roles and Permissions > Hide Rule** tab.



Configure Hide Rule

To Define a Rule to Hide Parts:

1. Click the **Edit**  button to edit the rule.

Enable	Hide Part Field	Values	Apply to Roles	Comment
<input checked="" type="checkbox"/>	<div style="border: 1px solid green; padding: 2px;"> <ul style="list-style-type: none"> Access Time Access Time ALT_SYMBOLS Build/Buy CIP Link CLASS Clock Frequency Maximum Coll Resistance Coll Voltage Maximum Coll Voltage Minimum Collector Current Maximum Collector-Emitter Voltage Common Mode Rejection Ratio <li style="background-color: #007bff; color: white;">Company Part Status Contact Current Contact Gender Contact Material Contact Plating Contact Voltage Cost Cut and Osc Mode </div>	New Value <input type="text"/> +	Admin <input type="text"/> +	

2. Select the **Enable** checkbox to enable a rule.
3. Select a **Field** from the drop list that will be used to determine which parts to hide.
4. Add **Values** for the matching conditions for the part to be hidden. Multiple values may be added as shown in the example. Click the **Add** button to add the value to the list.

Enable	Hide Part Field	Values	Apply to Roles	Comment
<input checked="" type="checkbox"/>	Company Part Status	<div style="border: 1px solid green; padding: 2px;"> <ul style="list-style-type: none"> Obsolete NFND </div>	Admin <input type="text"/> +	

5. Select a role that you want to apply this rule. Multiple roles may be added.

Enable	Hide Part Field	Values	Apply to Roles	Comment
<input checked="" type="checkbox"/>	Company Part Status	<div style="border: 1px solid green; padding: 2px;"> <ul style="list-style-type: none"> New Value <input type="text"/> + NFND Obsolete </div>	EE <input type="text"/> +	Parts that are obsolete or not recommended for new designs should not be used.

6. Add a comment for the rule and click the **Save** button to your configuration.

Enable	Hide Part Field	Values	Apply to Roles	Comment
<input checked="" type="checkbox"/>	Company Part Status	NFND Obsolete	EE	Parts that are obsolete or not recommended for new designs should not be used.

Once defined, users who are assigned the role will not be able to search or see parts that match this rule.

4 Using CIP

CIP is a powerful web-based interface that connects directly to the CIP Database. It allows users to perform basic tasks such as creating, editing, deleting, and searching for parts, as well as advanced tasks such as searching the distributors' databases, setting up email notifications and generating customizable fields, etc. CIP also enables Admin users to assign and manage different user roles.

CIS users connect to component and manufactures views of the CIP database.

4.1 Logging into CIP

To start using CIP, you need a username and password. This will normally be provided by your CIP Administrator along with the CIP URL. Your username can be set up as either a CIP user or a Windows user, depending on the type of account your administrator created for you.

Component Information Portal

Use a local account to log in.

Username

Password

Use Windows Authentication.

CIP User Login

If your account is a CIP account, type your username and password before you click the **Log In** button. If your account is a Windows account, you only need to click the **Windows** button to automatically log in. If you are unable to log in with your Windows account and your company has multiple Windows domains, you will need to contact your CIP Admin to confirm that CIP has been configured correctly. When using CIP in Capture and you see a blank screen either when you open CIP or when using Windows log in, you may need additional settings as described in CIP Client Installation guide section "CIP Shows Blank Screen in Capture".

All CIP [user roles](#) allow you to search and view parts within CIP. The CIS DB Search and Distributor Search can be used to perform searches. The ability to edit or delete a part is based on the role assigned to you by the Administrator.

Component Information Portal

Components ▾ CIS DB Search Distributor Search Compliance Temp. Parts BOMs ▾ search GO

Search

Search Part Type History Search

Component View: All ▾

(	Parametric Field	Operator	Parameter	)	Condition	Order	Add/Remove
+ -	PART_NUMBER ▾	Contains ▾		+ -		▲ ▼	+ -

Include Additional Fields in Search Results

PART_NUMBER ▾ + -

Search Clear

Select a Search

Saved Search	Default Search
▾	Delete Set Clear

Save a Search

Name	Global
	<input type="checkbox"/> Save

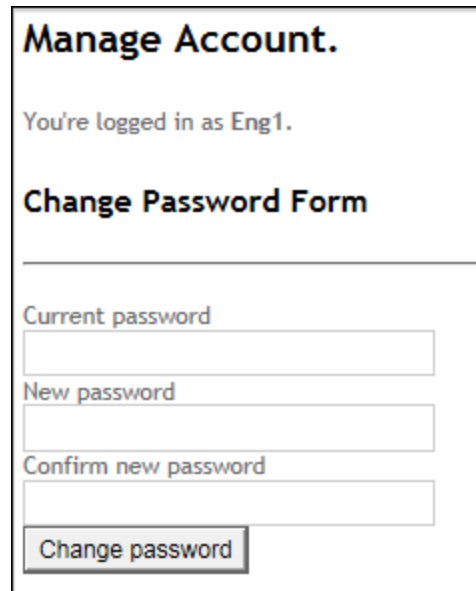
Search for Parts

4.2 Changing your password

You can change your CIP password by clicking the **Manage Account** link that is located in the upper right-hand corner of the CIP page. When [Ultra Librarian model download is enabled](#), you may enter your Ultra Librarian Username and password. Users logging in with a Windows account will be unable to change the password from CIP, but may enter Username and password for Ultra Librarian. When Ultra Librarian model download is disabled, Ultra Librarian log in is not shown.

Welcome Eng1 [\[Log Off\]](#) [\[Manage Account\]](#) [\[Help\]](#)

Change Password Link



Manage Account.

You're logged in as Eng1.

Change Password Form


Current password

New password

Confirm new password

Change Password

Enter your Ultra Librarian username and password to download ECAD models available through Ultra Librarian. If you do not have a login, click on the **Click here** link next to *New User or Forgot Password?* to register for an account. A new browser window opens to the Ultra Librarian site to register for a new account.





Username

Password

New User or Forgot Password? [Click here](#)

Enter Ultra Librarian Username and Password

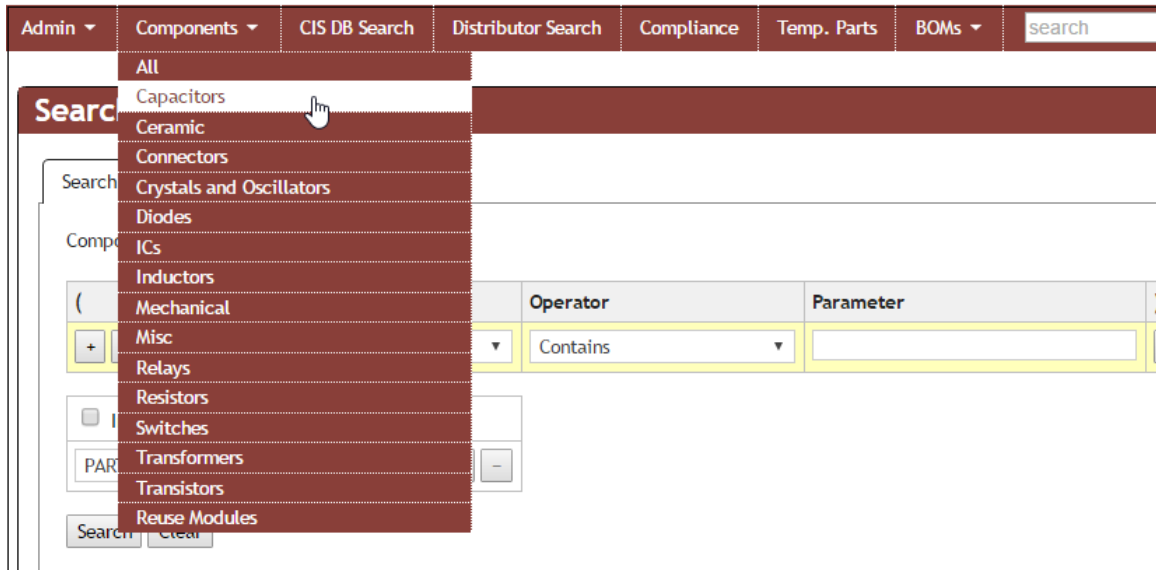
If you are logged in and need to change your account settings or password, click the **Click here** link to Change Ultra Librarian Password or Update Ultra Librarian Account Profile. A browser window opens to the Ultra Librarian site. If you wish to log out, click on the **Logout of Ultra Librarian** button.









Change Ultra Librarian Password or Update Account Profile? [Click here](#)

4.3 Components

The Components pull-down menu is one of several methods to search for parts. This method enables you to choose a specific component view of parts, or All parts. For example, if the Capacitors view is chosen from the Components list, the result will show the Part Information page for the first capacitor from the Capacitors view in the database. Once a Components view is selected from the list, the parts pull down list will show only parts in the selected view (in this case, capacitors). You will see the part information page consisting of part attribute data in the component form as well as the manufacturer and distributor data.



Hover over Components to see the List of Part Tables, including All Tables

You can navigate through the part list by clicking the Previous  and Next  buttons that are located to the left and right of the part number. You can also click  or  to select the First or Last part in the current list. Click  to toggle the sort order from ascending to descending, or  to go from descending to ascending order.

Capacitors

Part Information History

PART_NUMBER	EMA-00000130V22	Part Type	EMAIC
Description	CAP, Ceramic, SMD, 0.22 uF, 10 %, 100 V, 1812	Value	0.22uF
PCB Footprint	CAPC4532X102N	Schematic Part	CAPAC
Number of Pins	2	Operating Temperature Maximum	125 C
Operating Temperature Minimum	-55 C	Package Size	1812
Package Height	1.02 mm	Package Type	SMD
Company Part Status		Dielectric Type	Ceram
Equivalent Series Resistance		Temperature Coefficient	X7R
Tolerance	10%	Rated Voltage	100 V
Implementation		Implementation Type	<none>
PspiceTemplate	C^@REFDES %1 %2 C^@REFDES 0.22uF \n.model C^@REFDES CAP C=1 DEV=0.1	Device Type	
CLASS	DISCRETE	ALT_SYMBOLS	

AVX 18121C224KAT2A Add Manufacturer Part

Manufacturer Part Data History Where Used

Add Distributor PNs Check Availability

Manufacturer Data

Manufacturer	AVX	Manufacturer PN	18121C224KAT2A
Manufacturer PN Status	Active	Datasheet	http://myServer/DatasheetPath/AVX/cx7r.pdf
RoHS Compliant	Yes	Image	

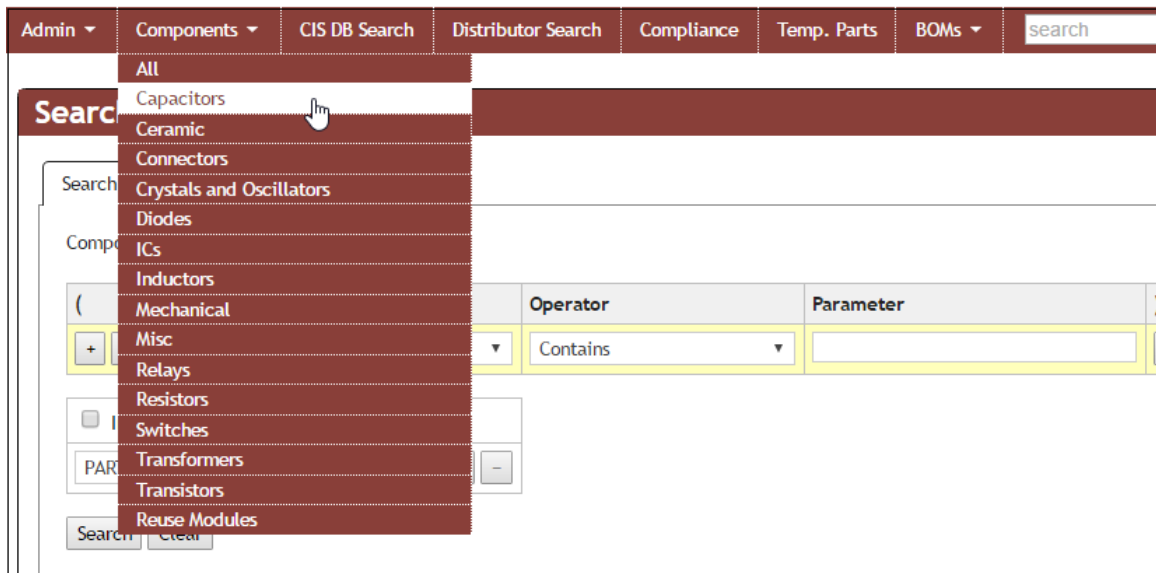
Distributor Fields

Distributor	Distributor PN	Quantity	Cost	Data Last Updated	Unit Price
Digi-Key	478-1640-2-ND			Dec 10 2014 10:21AM	

List of Parts in a Given Table


4.3.1 Creating/Modifying Parts

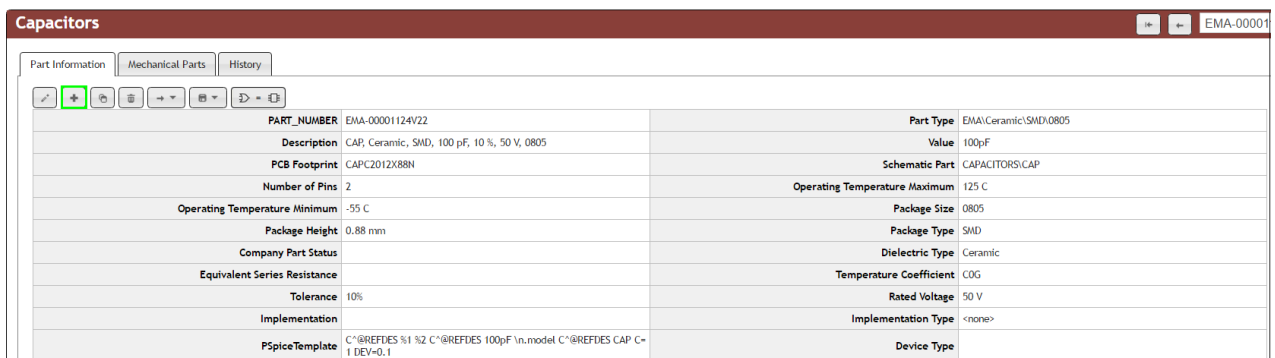
Before a part can be created or modified you must select the Components menu item to open the Part Information page.





Select Table To Add or Modify Parts


4.3.1.1 New Part Creation

New parts can be added by clicking the **New** button  from any Part Information page of a part detail. The New button is only available to users who are granted permission to add a new part.



New Part Creation

A new part entry form opens when you click the **New** button . Part data can be added from this page as well as a formal company Part Number. Click the **Add** button  (same graphic as the New button from previous figure) to generate the new part with all entered information. If a default value has been configured for a field, the new part entry form will show the default values for the configured fields. Refer to [Customizable Fields](#) section of this guide for instructions on how to configure default values.

Note: The **Add**  button is only visible when you are granted permission to add a formal part number.

Part Information		History	
<input type="button" value="x"/> <input type="button" value="+"/> <input type="button" value="+ TMP"/>			
PART_NUMBER	CAP_001	Part Type	Unassigned Part Type
Description		Value	1000 pF
PCB Footprint	CAP0603	Schematic Part	CAP
Number of Pins	2	Operating Temperature Maximum	125 C
Operating Temperature Minimum	-55 C	Package Size	0603
Package Height		Package Type	SMD
Company Part Status	Preliminary	Dielectric Type	Ceramic
Equivalent Series Resistance		Temperature Coefficient	
Tolerance	10 %	Rated Voltage	50 V
Implementation		Implementation Type	<none>

Add New Part

The New Part results will appear in the drop-down list of parts in the Components area. Additionally, the part also becomes available to CIS users who are connected to the CIP database.

Capacitors		CAP_001	
Part Information		Mechanical Parts	
History			
<input type="button" value="x"/> <input type="button" value="+"/> <input type="button" value="+ TMP"/> <input type="button" value="↩"/> <input type="button" value="↪"/> <input type="button" value="↻"/> <input type="button" value="⌂"/>			
PART_NUMBER	CAP_001	Part Type	Unassigned Part Type
Description		Value	1000 pF
PCB Footprint	CAP0603	Schematic Part	CAP
Number of Pins	2	Operating Temperature Maximum	125 C
Operating Temperature Minimum	-55 C	Package Size	0603
Package Height		Package Type	SMD
Company Part Status	Preliminary	Dielectric Type	Ceramic
Equivalent Series Resistance		Temperature Coefficient	
Tolerance	10 %	Rated Voltage	50 V
Implementation		Implementation Type	<none>
PSpiceTemplate		Device Type	
TMP Manufacturer		TMP Manufacturer PN	

Drop Down List of Part Numbers

4.3.1.2 Creating New Part with Next Available TMP Part Number

If a formal part number is unavailable at the time you enter your part, you may create the part as a TMP part and change the TMP part number to the formal number at a later time.

Note: The button is only visible when you are assigned permission to add a TMP part.

Capacitors EMA-00001

Part Information | Mechanical Parts | History

✎ + 🗑️ 📄 ↩️ ⌂

PART_NUMBER	EMA-00001124V22	Part Type	EMA/Ceramic/SMD/0805
Description	CAP, Ceramic, SMD, 100 pF, 10 %, 50 V, 0805	Value	100pF
PCB Footprint	CAPC2012X88N	Schematic Part	CAPACITORS\CAP
Number of Pins	2	Operating Temperature Maximum	125 C
Operating Temperature Minimum	-55 C	Package Size	0805
Package Height	0.88 mm	Package Type	SMD
Company Part Status		Dielectric Type	Ceramic
Equivalent Series Resistance		Temperature Coefficient	COG
Tolerance	10%	Rated Voltage	50 V
Implementation		Implementation Type	<none>
PSpiceTemplate	C:@REFDES %1 %2 C:@REFDES 100pF*.model C:@REFDES CAP C-1 DEV=0.1	Device Type	

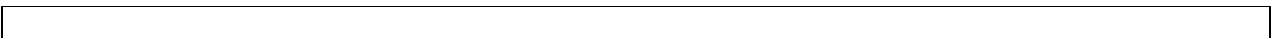
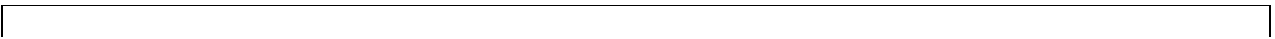
New Part Creation

Part Information | History

✎ + + TMP

PART_NUMBER		Part Type	Unassigned Part Type
Description		Value	1000 pF
PCB Footprint	CAP0603	Schematic Part	CAP
Number of Pins	2	Operating Temperature Maximum	125 C
Operating Temperature Minimum	-55 C	Package Size	0603
Package Height		Package Type	
Company Part Status		Dielectric Type	
Equivalent Series Resistance		Temperature Coefficient	
Tolerance		Rated Voltage	

Add New TMP Part




Part Information | Mechanical Parts | History


✎ + 🗑️ 📄 ↩️ ⌂

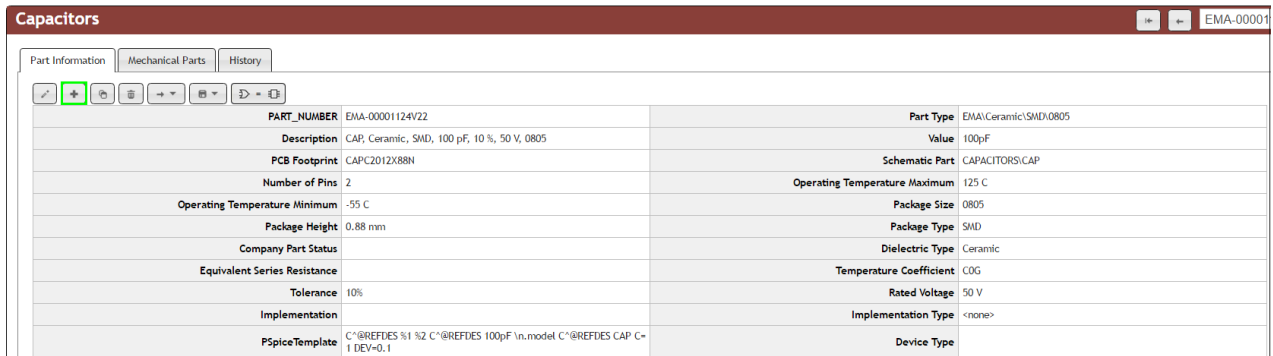
PART_NUMBER	TMP-10	Part Type	Unassigned Part Type
Description		Value	1000 pF
PCB Footprint	CAP0603	Schematic Part	CAP
Number of Pins	2	Operating Temperature Maximum	125 C
Operating Temperature Minimum	-55 C	Package Size	0603
Package Height		Package Type	
Company Part Status		Dielectric Type	
Equivalent Series Resistance		Temperature Coefficient	
Tolerance		Rated Voltage	
Implementation		Implementation Type	<none>
PSpiceTemplate		Device Type	
TMP Manufacturer		TMP Manufacturer PN	

Added New TMP Part

4.3.1.3 Creating New Part with Next Auto-Increment Part Number


To create a formal Part Number using the Auto-Increment Part Number feature, click on the **New** button  to bring up a blank new part form.

Note: The New button  is only visible when you are granted permission to add formal or TMP parts.




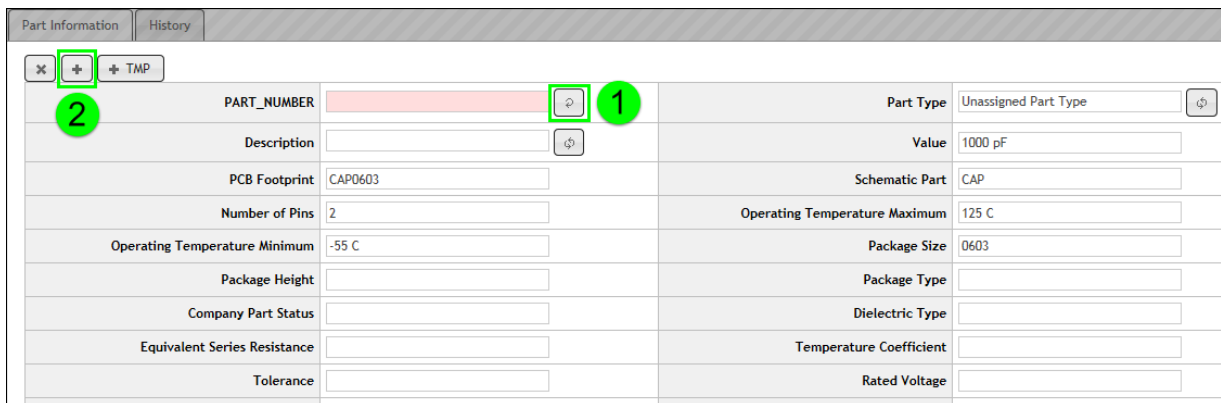
Part Information		Mechanical Parts		History	
PART_NUMBER	EMA-00001124V22	Part Type	EMA\Ceramic\SMD\0805		
Description	CAP, Ceramic, SMD, 100 pF, 10 %, 50 V, 0805	Value	100pF		
PCB Footprint	CAPC2012X88N	Schematic Part	CAPACTORS\CAP		
Number of Pins	2	Operating Temperature Maximum	125 C		
Operating Temperature Minimum	-55 C	Package Size	0805		
Package Height	0.88 mm	Package Type	SMD		
Company Part Status		Dielectric Type	Ceramic		
Equivalent Series Resistance		Temperature Coefficient	COG		
Tolerance	10%	Rated Voltage	50 V		
Implementation		Implementation Type	<none>		
PSpiceTemplate	C:@REFDES\%1 %2 C:@REFDES 100pF*.model C:@REFDES CAP C-1 DEV=0.1	Device Type			







New Part Creation

Enter data into the new form and then select the **Next PN** button  to obtain the next part number in the sequence.

Select the **Add** button  to add the part.









Note: The New button  in this screen is only visible when you are granted permission to add a formal part.



Part Information		History		
  				
2	PART_NUMBER	 1	Part Type	Unassigned Part Type 
	Description		Value	1000 pF
	PCB Footprint	CAP0603	Schematic Part	CAP
	Number of Pins	2	Operating Temperature Maximum	125 C
	Operating Temperature Minimum	-55 C	Package Size	0603
	Package Height		Package Type	
	Company Part Status		Dielectric Type	
	Equivalent Series Resistance		Temperature Coefficient	
	Tolerance		Rated Voltage	


Add New Part with Next Available PN

The example below shows the first auto-increment part number with a prefix of CAP-, followed by eight digits for the sequence number.









Part Information		Mechanical Parts	History
       			
PART_NUMBER	CAP-00000001	Part Type	Unassigned Part Type
Description		Value	1000 pF
PCB Footprint	CAP0603	Schematic Part	CAP
Number of Pins	2	Operating Temperature Maximum	125 C
Operating Temperature Minimum	-55 C	Package Size	0603
Package Height		Package Type	
Company Part Status		Dielectric Type	
Equivalent Series Resistance		Temperature Coefficient	
Tolerance	10%	Rated Voltage	
Implementation		Implementation Type	<none>
PSPiceTemplate		Device Type	
TMP Manufacturer		TMP Manufacturer PN	

Added New Part with Next Available PN


4.3.1.4 Modifying an Existing Part

Parts can be modified from the Part Information page by selecting the **Edit** button . Part data can also be modified using the Distributor Search to [overwrite component data](#). The mapped distributor field data from the distributor search results can update a part already in CIP.

Note: The Edit button is only visible when you are granted permission to modify a part.

Part Information		Mechanical Parts	History
       			
PART_NUMBER	CAP_001	Part Type	Unassigned Part Type
Description		Value	1000 pF
PCB Footprint	CAP0603	Schematic Part	CAP
Number of Pins	2	Operating Temperature Maximum	125 C
Operating Temperature Minimum	-55 C	Package Size	0603
Package Height		Package Type	SMD
Company Part Status	Preliminary	Dielectric Type	Ceramic
Equivalent Series Resistance		Temperature Coefficient	
Tolerance	10 %	Rated Voltage	50 V

Modify an Existing Part


Once the Part Information opens, modify the desired data and click the **Update** button  to save the change. Temp parts can be modified in the same way. Converting a TMP Part to a formal part can be done by modifying the PART_NUMBER field.

Part Information		History	
<input type="checkbox"/>	<input checked="" type="checkbox"/>		
PART_NUMBER	CAP-0000002	Part Type	Unassigned Part Type
Description		Value	1000 pF
PCB Footprint	CAPO603	Schematic Part	CAP
Number of Pins	2	Operating Temperature Maximum	125 C
Operating Temperature Minimum	-55 C	Package Size	0603
Package Height	1.0 mm	Package Type	SMD
Company Part Status	Approved	Dielectric Type	Ceramic
Equivalent Series Resistance		Temperature Coefficient	
Tolerance	10 %	Rated Voltage	50 V

Save Changes to Existing Part


Note: When you modify part attributes or properties, all instances of that part update. If you do not want to update all instances, you need to create and reference a new part or part number.

Updating Schematic Part


There are two ways to update the schematic part with additional symbols. You may type your symbol name or select the **Add** button . Type a comma to separate multiple symbols. The **Add** button is available when CIP is opened in Capture CIS.

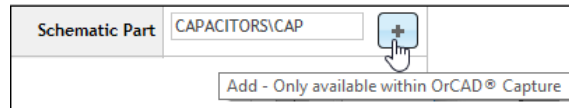
To update a schematic symbol while in the edit form

- When you start typing your symbol name, the list of all symbol used in the database will show. You may select from the list or continue to type the symbol name. Each time you type a comma, the list appears again for your selection.

Part Type	Unassigned Part Type
Value	SSM3J130TU(TE85L)
Schematic Part	DIODES\DIODE_TV, 
Operating Temperature Maximum	DIODES\DIODE
Package Size	DIODES\DIODE_A_NC_C
Package Type	DIODES\DIODE_DUAL_A1_A2_CC
Rated Voltage	DIODES\DIODE_DUAL_A1_C2_C1A2
Peak Forward Current	DIODES\DIODE_DUAL_C1_C2_CA
Rated Power	DIODES\DIODE_SCHOTTKY
Reverse Recovery Time	DIODES\DIODE_SCHOTTKY_A_NC_C
	DIODES\DIODE_SCHOTTKY_C1_C2_CA
	DIODES\DIODE_TV, BI_DIR

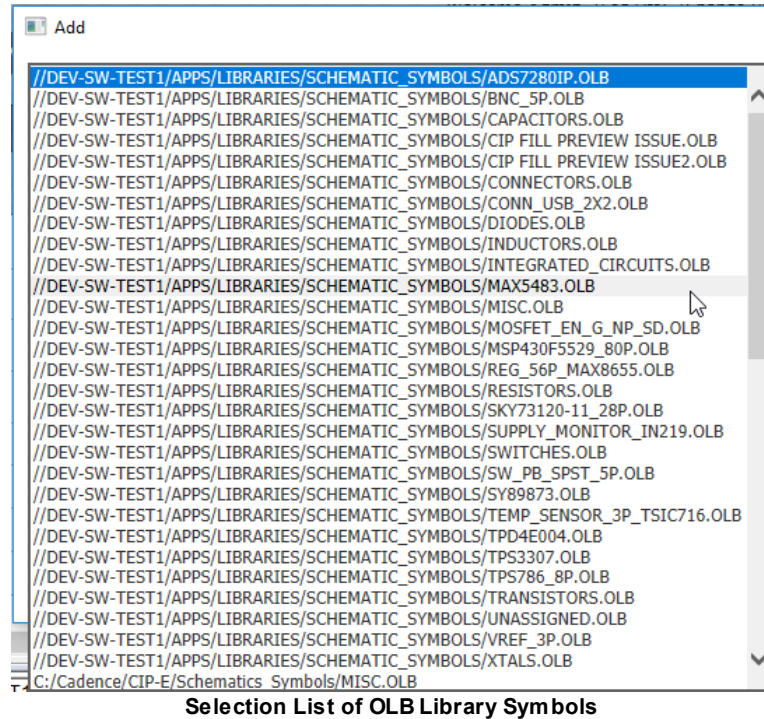
Pick List for choosing from Multiple Symbols

- If you want to select the symbol from one of the libraries configured in your Capture.ini file, click the **Add** button  that is located to the right of the Schematic Part field.

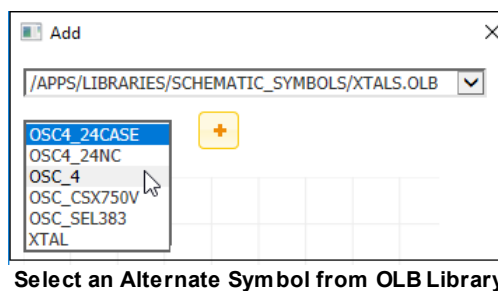


Note: The Add button is only available when you open CIP from OrCAD Capture. When you click the **Add** button, a preview window opens with a list of OLB libraries.

1. Select a OLB library from the list.



The name of the first symbol in the library populates the Symbol field. However, if the symbol library you select includes more than one symbol, a drop list becomes available so you can select an alternate symbol.



2. Click the **Add** button to populate the field with the name of the symbol you selected. This process may be repeated for multiple symbols.



Updating PCB footprint

When you start typing your PCB footprint name, the list of all footprints used by other parts in the same component will show. You may select from the list or continue to type the footprint name. Each time you type a comma, the list appears again for your selection.


Pick lists

If pick lists are configured for fields, you can choose the desired value from the list. For example, if the Dielectric Type field is set up to offer a pick list of the values: Ceramic, Aluminum, Tantalum, or Unknown, then you can access the list and choose one of those values. If a field is changed from text to a pick list and your data does not match one of the items in the pick list, modifying the part will automatically change the field data to one of the values in the list. Only persons with administrative privileges can configure pick lists in customizable fields. Refer to [Customizable Fields](#) section of this guide for instructions on how to configure pick lists.

PART_NUMBER	TMP-11	Part Type	Unassigned Part Type
Description	Multilayer Ceramic Capacitors MLCC	Value	3.3uF
PCB Footprint	CAPC3216X180N	Schematic Part	CAPACITORS\CAP
Number of Pins		Operating Temperature Maximum	- 55 C to + 125 C
Operating Temperature Minimum	- 55 C to + 125 C	Package Size	2220 (5750 metric)
Package Height		Package Type	SMD/SMT
Company Part Status		Dielectric Type	Unknown
Series Resistance		Temperature Coefficient	
Tolerance	10%	Rated Voltage	
Implementation		Implementation Type	<none>

Choosing a Value from a Pick List

4.3.1.5 Moving a Part to a Different View

When you want to move a single part from one component view to different view, you can open the part page in CIP, click the **Move**  button and select the Component View from the drop-down menu. If you use the Move button to move a part to another component view that is to the same table, the part history remains intact. However, if you use the Move button to move a single part to the component view of a different table, the part history will be lost.

You can easily move a group of parts from one view to another by using the [Component View Mover](#) tool. However, the originating and target views must be within the same table. The **Move** button is only visible when you are granted permission to delete and create parts.

Note: Fields can only be transferred to a new view when the field names of the two views match. The values of fields that have a different field name are lost in the new view.

To move a part to an alternate view

1. Open the part. The name of the view associated to the part displays in the part header.

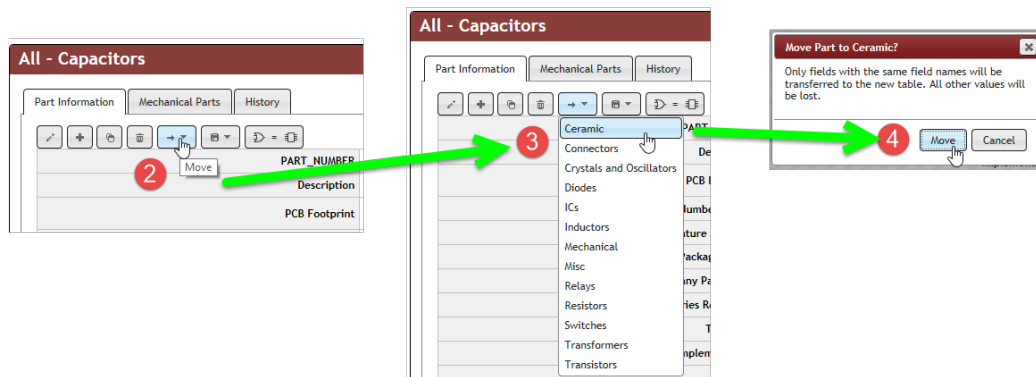
The example below shows PART_NUMBER 00002217V22 in the Capacitors view.

1 Capacitors

Part Information		Mechanical Parts		History	
PART_NUMBER	EMA-00002217V22	Part Type	EMA\Ceramic\SMD\0805		
Description	CAP, Ceramic, SMD, 56 pF, 5.0 %, 50 V, 0805	Value	56pF		
PCB Footprint	CAPC2012X70N	Schematic Part	CAPACITORS\CAP	Place	
Number of Pins	2	Operating Temperature Maximum	125 C		
Operating Temperature Minimum	-55 C	Package Size	0805		
Package Height	0.70 mm	Package Type	SMD		
Company Part Status		Dielectric Type	Ceramic		
Equivalent Series Resistance		Temperature Coefficient	NPO		
Tolerance	5.0%	Rated Voltage	50 V		
Implementation		Implementation Type	<none>		
PSpiceTemplate	C:@REFDES %1 %2 C:@REFDES 56pF In.model C:@REFDES CAP C +1 DEV=0.05	Device Type			
CLASS	DISCRETE	ALT_SYMBOLS			
STEP_MODEL		Last Modified	Apr 10 2019 3:40PM		
Last Modified By	Admin				

- Click the Move button.
- Select the alternate name of the view you want to associate to the part from the drop-list menu.

The example that follows shows the selection of the Ceramic view, which is a user-defined view as setup in the **Admin > Configuration > Component Views** page.



Note: When moving parts to a view that is associated to a different table, history records of all prior changes will be lost. This information is also stated in the warning for this case.

- Verify the view header to confirm the view you selected is associated to the part.

5 Ceramic

Part Information | Mechanical Parts | History

Part Information

PART_NUMBER	EMA-00002217V22	Part Type	EMA\Ceramic\SMD\0805
Description	CAP, Ceramic, SMD, 56 pF, 5.0 %, 50 V, 0805	Value	56pF
PCB Footprint	CAPC2012X70N	Schematic Part	CAPACITORS\CAP
Number of Pins	2	Operating Temperature Maximum	125 C
Operating Temperature Minimum	-55 C	Package Size	0805
Package Height	0.70 mm	Package Type	SMD
Company Part Status		Dielectric Type	Ceramic
Equivalent Series Resistance		Temperature Coefficient	NPO
Tolerance	5.0%	Rated Voltage	50 V
Implementation		Implementation Type	<none>
PSpiceTemplate	C*@REFDES %1 %2 C*@REFDES 56pF \n.model C*@REFDES CAP C =1 DEV=0.05	Device Type	
CLASS	DISCRETE	ALT_SYMBOLS	
STEP_MODEL		Last Modified	Apr 10 2019 3:11PM
Last Modified By	Admin		

Part view displays in header

4.3.1.6 Copying an Existing Part

The Copy button allows users to create a copy of any existing Formal or Temp part. The Copy feature also provides an optional checkbox to copy the Manufacturer Parts associated with the Formal or Temp part. Before completing the copy, users are able to modify the field values as desired.

To copy an existing part, find the part you want to copy. From the Part Information section, click the **Copy** button

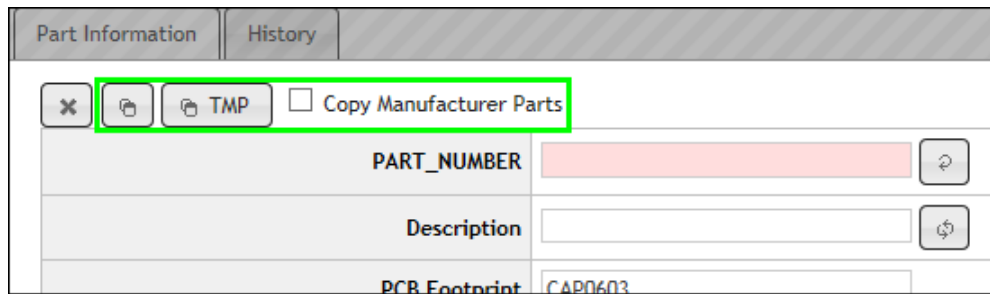
Part Information | Mechanical Parts | History

Part Information


PART_NUMBER	CAP_001	Part Type	Unassigned Part Type
Description		Value	1000 pF
PCB Footprint	CAP0603	Schematic Part	CAP
Number of Pins	2	Operating Temperature Maximum	125 C
Operating Temperature Minimum	-55 C	Package Size	0603
Package Height		Package Type	SMD
Company Part Status	Preliminary	Dielectric Type	Ceramic
Equivalent Series Resistance		Temperature Coefficient	
Tolerance	10 %	Rated Voltage	50 V

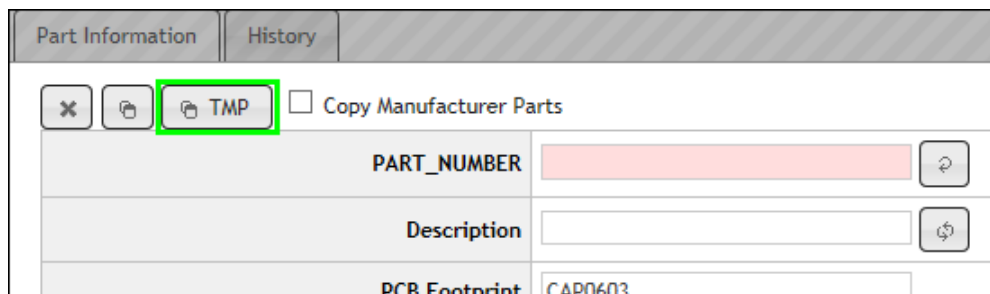
Copy Part

After clicking the **Copy** button, users are able to change field values and choose whether or not to copy the associated Manufacturer Parts (using the checkbox).





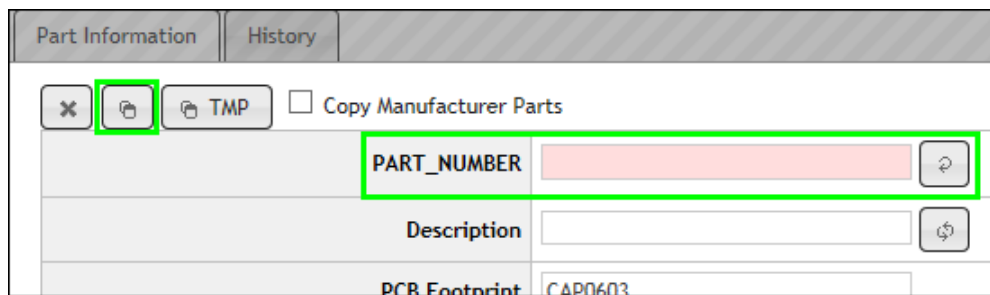
Copy Part Options

To copy a part as a temporary part, click the **Copy as TMP** button . This will copy the part and its field values. If **Copy Manufacturer Parts** is checked, associated Manufacturer Parts will be copied as well. CIP will assign the next available TMP PN to the copied part.




Copy Part as TMP PN

To copy a part with the Given PN (i.e. the value in the PART_NUMBER field), populate the PART_NUMBER field manually or click  to generate the next available number. When ready to complete the copy, click  to Copy with the Given PN. If the PART_NUMBER is left blank, an error message displays when you click the **Copy** button that states a PART_NUMBER is a required field.



Copy Part as Given PN

4.3.1.7 Deleting a Part

If you have a part you wish to delete, click the **Delete Part** button  on the Part Information section for the specific part. A confirmation window prompts you to confirm the Delete operation or Cancel. Exercise caution when

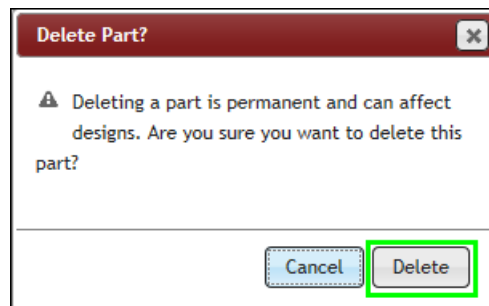
deleting a part as it may be used in multiple legacy designs. Deleting the part can ultimately affect the usage of those designs.

Note: the Delete button is only visible if you are granted permission to delete parts.

Part Information		Mechanical Parts	History
PART_NUMBER	CAP_001	Part Type	Unassigned Part Type
Description		Value	1000 pF
PCB Footprint	CAP0603	Schematic Part	CAP
Number of Pins	2	Operating Temperature Maximum	125 C
Operating Temperature Minimum	-55 C	Package Size	0603
Package Height		Package Type	SMD
Company Part Status	Preliminary	Dielectric Type	Ceramic
Equivalent Series Resistance		Temperature Coefficient	X7R
Tolerance	10 %	Rated Voltage	50 V

Delete Part

Click **Delete** to confirm part deletion or Cancel to keep the part.



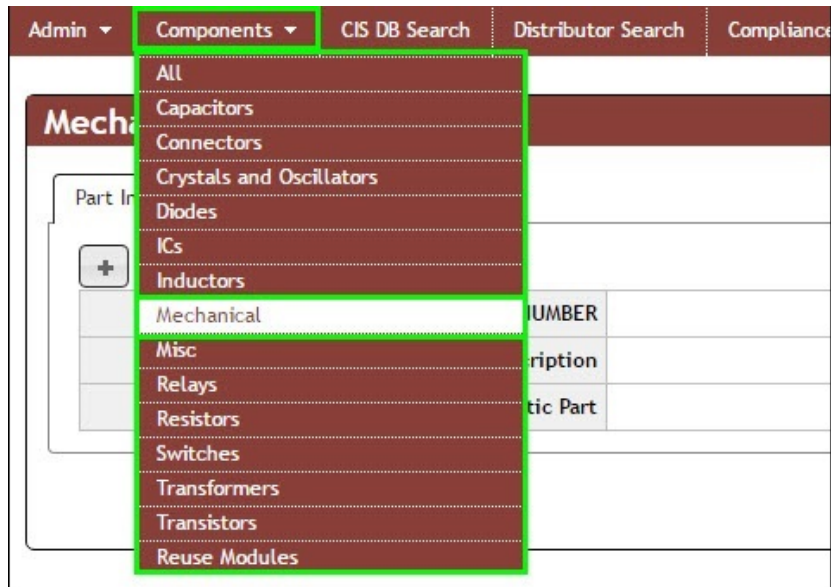
Delete Part Confirmation

4.3.1.8 Adding Mechanical Parts to a Component

Mechanical Parts can be associated to existing parts in CIP. The associated Mechanical Parts can be included in Capture CIS BOMs or CIP BOMs without the need to have parts placed on designs. This includes parts such as screws and washers.

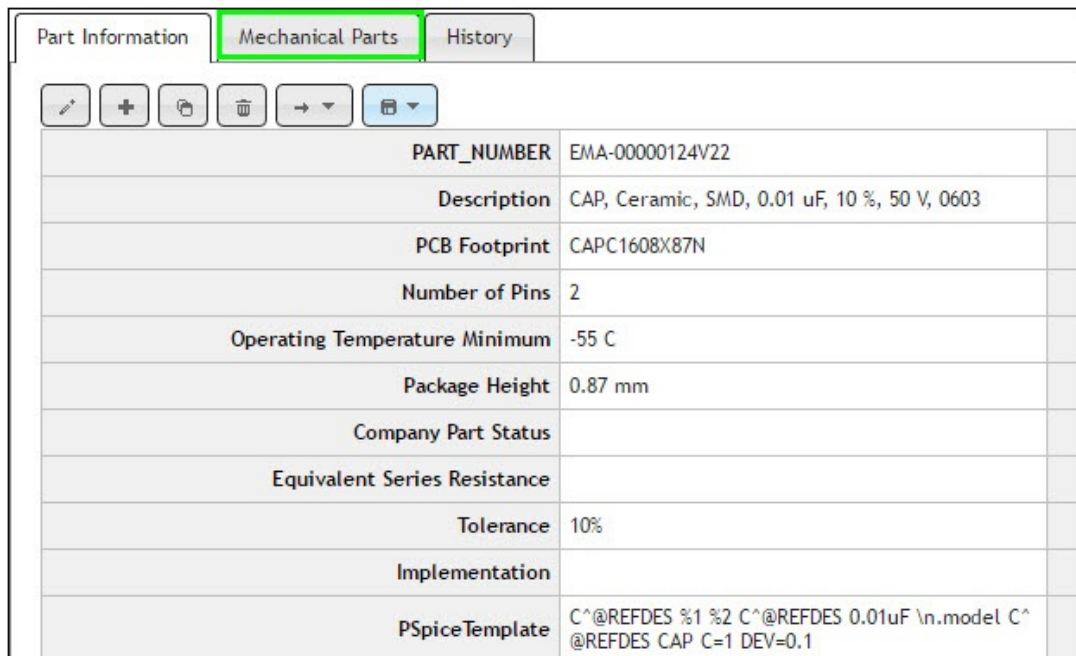
Note: To include mechanical parts when generating BOMs in Capture CIS, be sure to select the Output Mechanical Part Data checkbox in the Reports > CIS Bill of Materials pop-up.

Mechanical parts are created the same way as any other [New Part](#). To create a new mechanical part, select the **Components > Mechanical** menu items as shown in the graphic figure below.






Select Mechanical

To add mechanical parts to an existing part, click the **Mechanical Parts** tab while viewing the intended part.



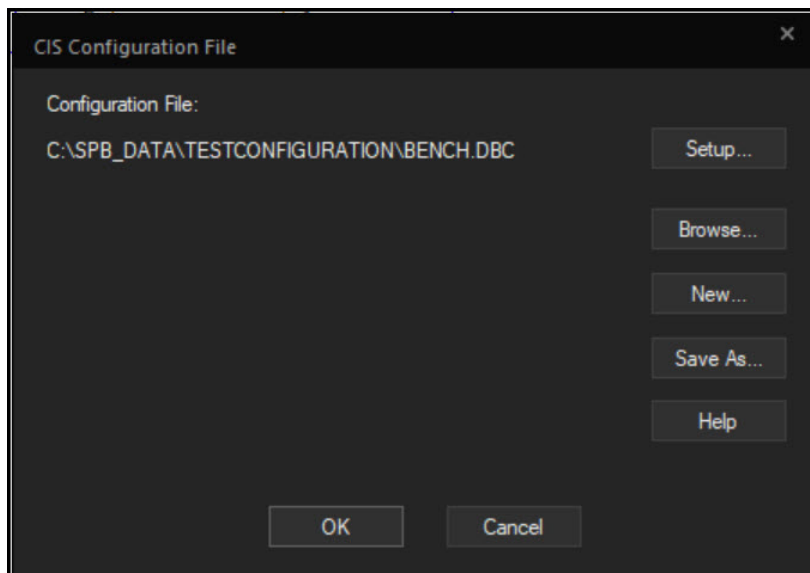
Select Mechanical Parts Tab

Enter the part number and quantity of the mechanical part to be added and click the **Add** button . The Description appears when mechanical part is added. Repeat this process for any additional mechanical parts.

Part Information	Mechanical Parts	History	
Part Number	Quantity	Description	
MECH 00000001	2	Screw, 1/4"	
<input type="text" value="MECH 00000001"/>	<input type="text" value="2"/>		

Add Mechanical Part

If you are creating your own .DBC file, rather than using the default, be sure to configure the MechanicalMapping. Use the CIS Configuration wizard in Capture CIS to create new .DBC file. While in Capture CIS, select menu item **Options > CIS Configuration**. Review the [Appendix](#) for instructions that explain how to update the CIP/CIS .DBC file.

**Configure .DBC file in Capture CIS**

A table for MechanicalMapping must be enabled as shown in the graphic figures below.

Part Database | Part Reference Associations | Administrative Preferences | Relational Database

Data Source
CIP-E_CIS_DB Browse ...

Tables :
 Inductors
 Mechanical
 MechanicalMapping
 Misc

Select Mapping Table:
MechanicalMapping

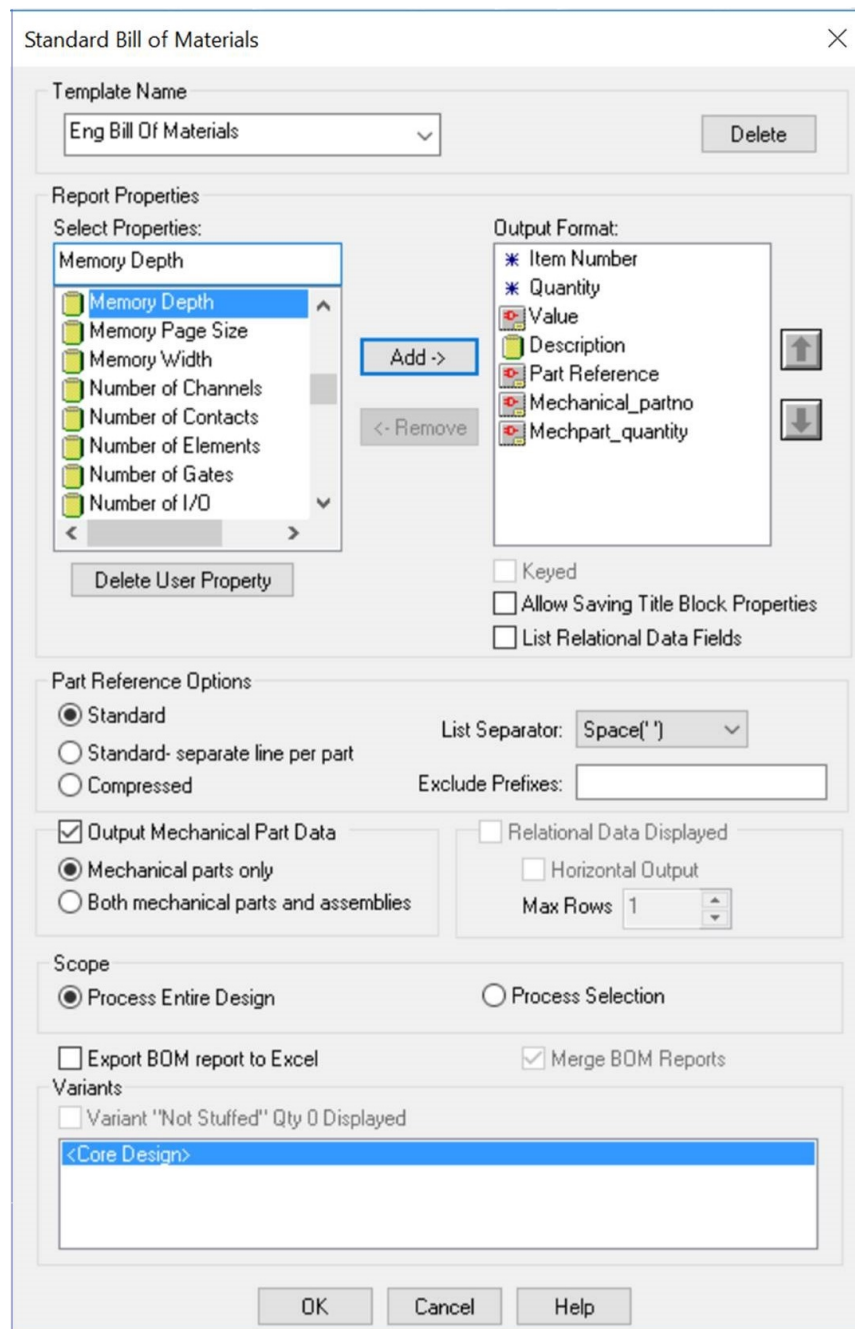
Temp part number table TMPPRTS Exists

Configuration

	Table Property Name	Table Property Type	Property Type	Transfer To Design	OrCAD Property Name	ICA Property Name	Visibility	Key	Browsable	Update Part Property
1	PART_NUMBER	varchar	Part_Number	<input checked="" type="checkbox"/>	PART_NUMBER		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	Mechanical PN	varchar	Mechanical_p	<input checked="" type="checkbox"/>	Mechanical_partno		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	Quantity	int	Mechpart_qu	<input checked="" type="checkbox"/>	Mechpart_quantity		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	Part Type	varchar	Part_Type	<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Value	int	Normal	<input checked="" type="checkbox"/>	Value		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Schematic Part	int	Schematic_Pa	<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Enable MechanicalMapping Table


When creating a CIS BOM, be sure to add Mechanical_partno and Mechpart_quantity to your BOM output and select **Output Mechanical Part Data**, so that Mechanical Parts is included when BOMs are generated.



Add Mechanical_partno and Mechpart_quantity to BOM Output

4.3.1.9 Adding a Manufacturer Part Number

Multiple manufacturers can be attached to a part and viewed in the Manufacturing Part Data area of the Part Information page. You can also add new manufacturer part data by selecting the **Add Manufacturer Part** tab.

Note: The **Add** button  is only visible if you are granted permission to add a Manufacturer Part.

Part Information Mechanical Parts History

PART_NUMBER	CAP_001	Part Type	Unassigned Part Type
Description	CAP, Ceramic, SMD, 1000 pF, 10 %, 50 V, 0603	Value	1000 pF
PCB Footprint	CAP0603	Schematic Part	CAP
Number of Pins	2	Operating Temperature Maximum	125 C
Operating Temperature Minimum	-55 C	Package Size	0603
Package Height		Package Type	SMD
Company Part Status	Preliminary	Dielectric Type	Ceramic
Equivalent Series Resistance		Temperature Coefficient	X7R
Tolerance	10 %	Rated Voltage	50 V
Implementation		Implementation Type	<none>
PSpice Template		Device Type	
TMP Manufacturer		TMP Manufacturer PN	
CLASS	DISCRETE	ALT_SYMBOLS	

Add Manufacturer Part

Key Fields

Manufacturer	<input type="text"/>	Manufacturer PN	<input type="text"/>
--------------	----------------------	-----------------	----------------------

Add Manufacturer PN

When the Manufacturer Part Data page opens, enter the appropriate data into the fields and click the **Add** button to implement the change.

EMA
EMAPN001

Add Manufacturer Part


Manufacturer Part Data History

Manufacturer Data

Manufacturer	EMA	Manufacturer PN	EMAPN001
Manufacturer PN Status	Approved	Datasheet	
RoHS Compliant		Image	

Add Additional Manufacturer PN

4.3.1.10 Modifying an Existing Manufacturer Part Number

You can edit Manufacturer Part information that is associated to a company by clicking the **Edit** button  located in the Manufacturer Part Data section below the Part Information page of a given company part.

Note: The Edit button is only visible when you are granted permission to modify the Manufacturer Part Data.

EMA
EMAPN001


Add Manufacturer Part

Manufacturer Part Data History

✎ 🗑️ ⬅️ ➡️

Manufacturer Data			
Manufacturer	EMA	Manufacturer PN	EMAPN001
Manufacturer PN Status	Approved	Datasheet	
RoHS Compliant		Image	
Always RoHS Compliant		Date of RoHS Compliance	

Modify an Existing Manufacturer Part

Once the Manufacturer Data edit page opens, modify the desired information and click the **Update** button  to save your changes.

EMA
EMAPN001

Add Manufacturer Part

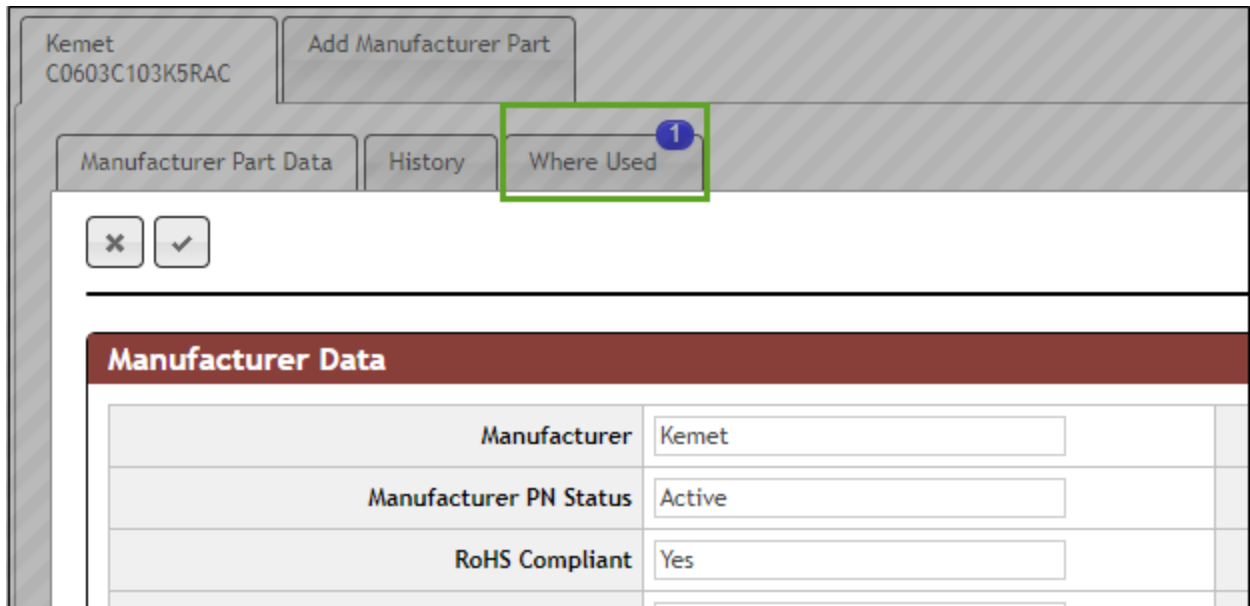
Manufacturer Part Data History

✕ ✓


Manufacturer Data			
Manufacturer	EMA	Manufacturer PN	EMAPN001
Manufacturer PN Status	Approved	Datasheet	
RoHS Compliant	Yes	Image	
Always RoHS Compliant		Date of RoHS Compliance	

Save Changes to Existing Manufacturer Part

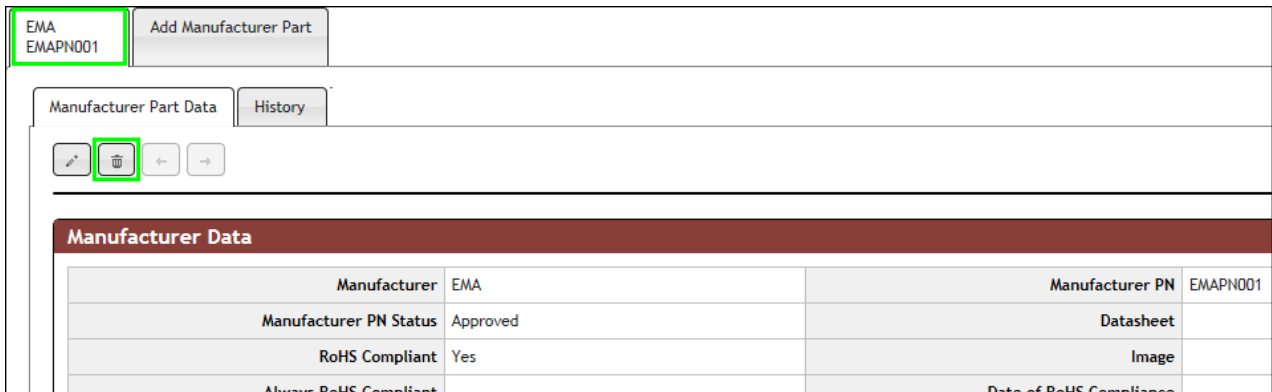
When a manufacturer part is used in multiple company part numbers, any update to attributes such as the manufacture name, part number, status etc. is reflected in each instance of the manufacturer part. For example, if a manufacturer part is used in two company parts, changing the manufacturer part number can be seen in both company parts. You can verify where each instance is updated through the **Where Used** tab shown in the image below.



4.3.1.11 Deleting a Manufacturer Part Number

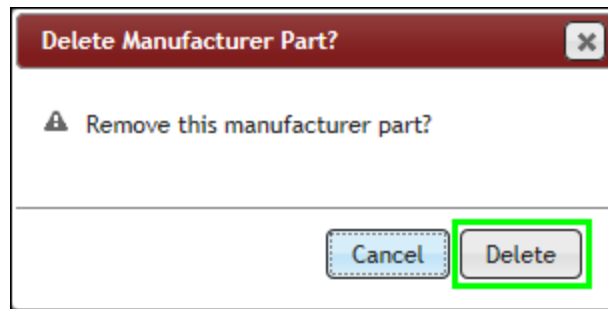
To delete a specified manufacturer part from a specific company part, select the desired manufacturer tab from the Manufacturer Part Data page and click the Delete button .

Note: The **Delete** button only displays when the user is assigned permission to delete the Manufacturer Part.



Delete Manufacturer Part

Click **Delete** to confirm manufacturer part deletion or **Cancel** to keep the part.



Delete Manufacturer Part Confirmation

4.3.1.12 Modifying Per Part Manufacturer Part Data

When CIP is configured to display the [Component Manufacturer Part](#) field, you can modify the Per Part Manufacturer Part Data. Fields in this section identify unique properties between the selected company and the manufacturer part.

 A screenshot of the "Per Part Manufacturer Part Data" form. The form has a title bar with a close button (X) and a checkmark button. On the right side of the title bar are two buttons: "Add Distributor PNs" and "Check Availability". Below the title bar, there is a section titled "Per Part Manufacturer Part Data" containing a "Preferred Status" dropdown menu with "Alternate" selected. Below this is a section titled "Manufacturer Data" containing a table of fields:

Manufacturer	Kemet	Manufacturer PN	C0603C103K5RAC
Manufacturer PN Status	Active	Datasheet	http://CompanyWebServer/CIP-E/da
RoHS Compliant	Yes	Image	

Modify the Per Part Manufacturer Part Data

4.3.1.13 Add, Modify and Delete Distributor Part

Each manufacturer part number can have any number of distributor part numbers associated to it.

Distributor parts can be added using one of the following methods:

- Use Distributor Search to automatically [add a TMP part](#) or [update an existing part](#)
- Add the part directly from the part entry page
- Use the **Add Distributor PNs** or **Add Silicon Expert PNs** button to automatically add the part when viewing a Manufacturer Part


Distributor Part information may be modified with one of the following methods:



- Use Distributor Search to automatically [update an existing part](#) or [Distributor Sync](#)
- Modify the part directly from the part entry page


Distributor parts are deleted directly from the part entry page.

To modify the fields associated to a distributor part, select the part and scroll down to the distributor information of the Part Information form.

▼ Add Distributor Part Manually





To manually add a distributor, enter the distributor name and distributor PN and then select the **Add**  button.




PART_NUMBER	TMP-7	Part Type	EMAI Ceramic SMD 0603
Description	CAP, Ceramic, SMD, 0.01 uF, 10 %, 50 V, 0603	Value	0.01uF
PCB Footprint	CAPC1608X87N 	Schematic Part	CAPACITORS\CAP 
Number of Pins	2	Operating Temperature Maximum	125 C
Operating Temperature Minimum	-55 C	Package Size	0603
Package Height	0.87 mm	Package Type	SMD
Company Part Status		Dielectric Type	Ceramic
Equivalent Series Resistance		Temperature Coefficient	X7R
Tolerance	10%	Rated Voltage	50 V
Implementation		Implementation Type	<none>
PSpice Template	C:@REFDES %1 %2 C:@REFDES 0.01uF In.model C:@REFDES CAP C=1 DEV=0.1	Device Type	
ECAD Status	Models Needed	CLASS	DISCRETE
ALT_SYMBOLS		STEP_MODEL	
Last Modified	Feb 1 2022 12:16PM	Last Modified By	yuks

This is a temporary part. To assign this part to an existing part, select the existing part in the drop down list and click the Assign to Part button. EMA-00000124V22 

Kemet C0603C103K5RAC	Cornell Dubilier Electronics (CDE) C0603C103K5RACB	Samsung Electro-Mechanics CL10B103KB8NFNC	Stackpole Electronics Inc CML0603X7R103KT50V	YAGEO CC0603KRX7R9BB103	Add Manufacturer Part
-------------------------	---	--	---	----------------------------	-----------------------




Manufacturer Part Data History Where Used

Manufacturer Fields

Distributor Fields

Distributor	Distributor PN	Quantity	Cost	Unit Price	Data Last Updated
  Digi-Key	C0603C103K5RACB-ND	0		0	Feb 1 2022 12:14PM
	Newark				

Manually Add a Distributor

▼ Add multiple Distributor Parts

To add multiple distributor part numbers, select the desired **Manufacturer Part** tab and click the **Add Distributor PNs** button. If you have an active subscription for the CIP [Compliance](#) module, an **Add Silicon Expert PNs** button is available. Selecting the **Add Silicon Expert PNs** button takes you through the same steps as described in this section.

The Distributor Search or Compliance page opens with the search criteria auto-configured using Search by Manufacturer Part Number with the manufacturer part number in view.

- 1) Select distributors to include in the search from the distributor search page. Then select the **Search** button.
- 2) Select the distributor parts after the search results appear. Then select **Add to Part Number** button.

Distributors Arrow Digi-Key Future Mouser Newark

Search Type: Manufacturer Part Number

Search Text: CL21F106ZPFNNNE

Newark Farnell Premier

Search Results

Distributor	Distributor PN	Manufacturer	Manufacturer PN	Description	Category	Quantity On Hand	Price	Add to TMP-13
Digi-Key	1276-3012-2-ND	Samsung Electro-Mechanics	CL21F106ZPFNNNE	CAP CER 10UF 10V Y5V 0805	Capacitors	416000	USD 0.03467	<input type="checkbox"/>
Digi-Key	1276-3012-1-ND	Samsung Electro-Mechanics	CL21F106ZPFNNNE	CAP CER 10UF 10V Y5V 0805	Capacitors	416607	USD 0.2	<input type="checkbox"/>
Digi-Key	1276-3012-6-ND	Samsung Electro-Mechanics	CL21F106ZPFNNNE	CAP CER 10UF 10V Y5V 0805	Capacitors	416607	USD 0.2	<input checked="" type="checkbox"/>
Arrow	CL21F106ZPFNNNE	Samsung Electro-Mechanics	CL21F106ZPFNNNE	Cap Ceramic 10uF 10V Y5V -20% to 80% Pad SMD 0805 85°C T/R		198000	USD 0.19	<input checked="" type="checkbox"/>
Future	4147062	SAMSUNG ELECTRO-MECHANICS	CL21F106ZPFNNNE	CL21 Series 10 uF 10 V -20/+80% Tolerance Y5V SMT Multilayer Ceramic Capacitor	Multilayer Ceramic Capacitors	500	\$ 0.119	<input checked="" type="checkbox"/>
Future	5237144	SAMSUNG ELECTRO-MECHANICS	CL21F106ZPFNNNE	CL21 Series 10 uF 10 V -20/+80% Tolerance Y5V SMT Multilayer Ceramic Capacitor	Multilayer Ceramic Capacitors	0	\$ 0.0145	<input type="checkbox"/>
Future	5237144	SAMSUNG ELECTRO-MECHANICS	CL21F106ZPFNNNE	CL21 Series 10 uF 10 V -20/+80% Tolerance Y5V SMT Multilayer Ceramic Capacitor	Multilayer Ceramic Capacitors	44000	\$ 0.0347	<input type="checkbox"/>

Add Multiple Distributor Parts

The selected distributor part numbers will be added.

KEMET C0805C106Z8VACTU Samsung Electro-Mechanics CL21F106ZPFNNNE

Manufacturer Part Data

Manufacturer Data










Distributor Fields

	Distributor	Distributor PN	Quantity	Cost	Unit Price	Data Last Updated
<input type="button" value="Edit"/>	Digi-Key	1276-3012-6-ND	416607	USD 0.2 (1-9), 0.136 (10-99), 0.0689 (100-499), 0.04712 (500-999), 0.04168 (1000+)	0.2	Jun 13 2019 12:38PM
<input type="button" value="Edit"/>	Arrow	CL21F106ZPFNNNE	198000	0.19 (1 - 9), 0.1279 (10 - 24), 0.1266 (25 - 99), 0.0635 (100 - 249), 0.0628 (250 - 999999999)	0.19	Jun 13 2019 12:38PM
<input type="button" value="Edit"/>	Future	4147062	500	\$ 0.1190 (1-49), 0.0585 (50-99), 0.0516 (100-249), 0.0437 (250-499), 0.0386 (500+)	0.119	Jun 13 2019 12:38PM
<input type="button" value="Add"/>						

Added Distributor Parts

▼ Edit Distributor Part manually










To manually edit a distributor part, select the **Edit** button of the distributor part you want to edit. The form updates to allow you to make modifications. After you complete your updates, click the **Save**, button to save your edits. Or to discard your updates, click the **Cancel**, button.

	Distributor	Distributor PN	Quantity	Cost	Data Last Updated	Unit Price
 	Digi-Key	399-8015-2-ND			Nov 16 2015 11:45AM	
 	Digi-Key	399-8015-1-ND			Nov 16 2015 11:47AM	
 	Mouser	80-C0805C106Z8V			Nov 16 2015 11:47AM	
 	Newark	8692165			Nov 16 2015 11:51AM	
						

Save or Cancel Modifications/Edits to a Distributor Part

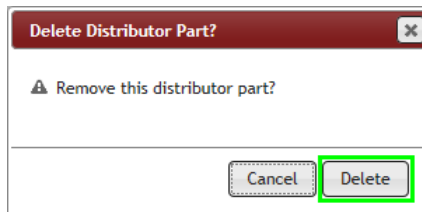
▼ Delete Distributor Part

To delete a distributor part, select the **Delete**,  button of the distributor part you want to delete.

	Distributor	Distributor PN	Quantity	Cost	Unit Price	Data Last Updated
 	Digi-Key	399-8015-2-ND				Jun 25 2017 5:16PM
 	Digi-Key	399-8015-1-ND				Jun 25 2017 5:16PM
 	Mouser	80-C0805C10628V				Jun 25 2017 5:17PM
 	RS Components	8692165				Jun 25 2017 5:17PM
						

Delete Distributor Part

Click **Delete** to confirm distributor part deletion or **Cancel** to keep the part.



Delete Confirmation

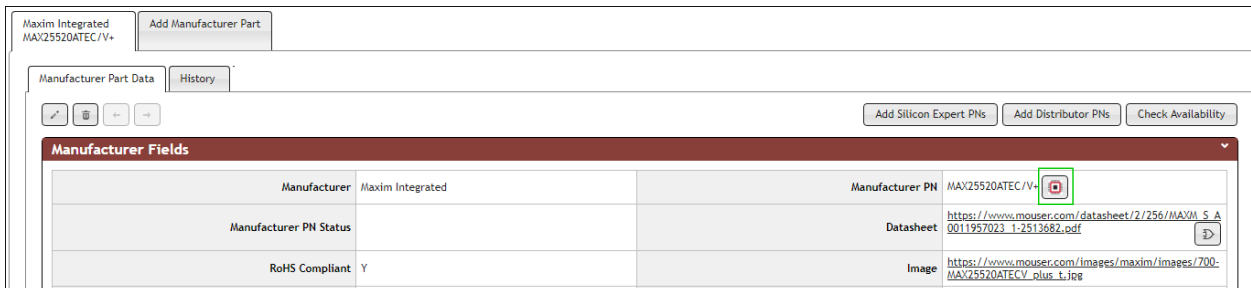
Note: When an Arrow part number is added to CIP using a distributor search, a unique string that is used to retrieve quantity and price data is also added. When the Arrow part number is manually added or modified, the unique reference string becomes unavailable. Consequently, the Arrow part is unable to update during a distributor sync.

4.3.1.14 Add ECAD Model from Ultra Librarian

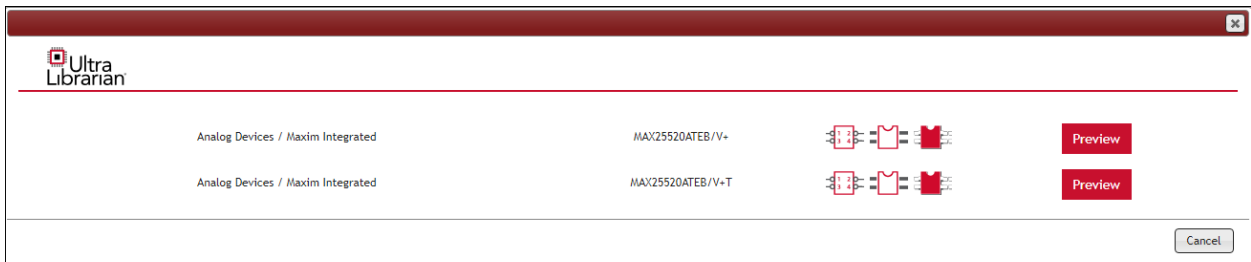
You are unable to place parts that do not have a Schematic Part. You may create a Schematic Part manually, using OrCAD Library Builder or download from Ultra Librarian. When [Download of Ultra Librarian Models](#) is enabled, you are able to download symbol and footprint models from Ultra Librarian.

To download ECAD Models from Ultra Librarian:

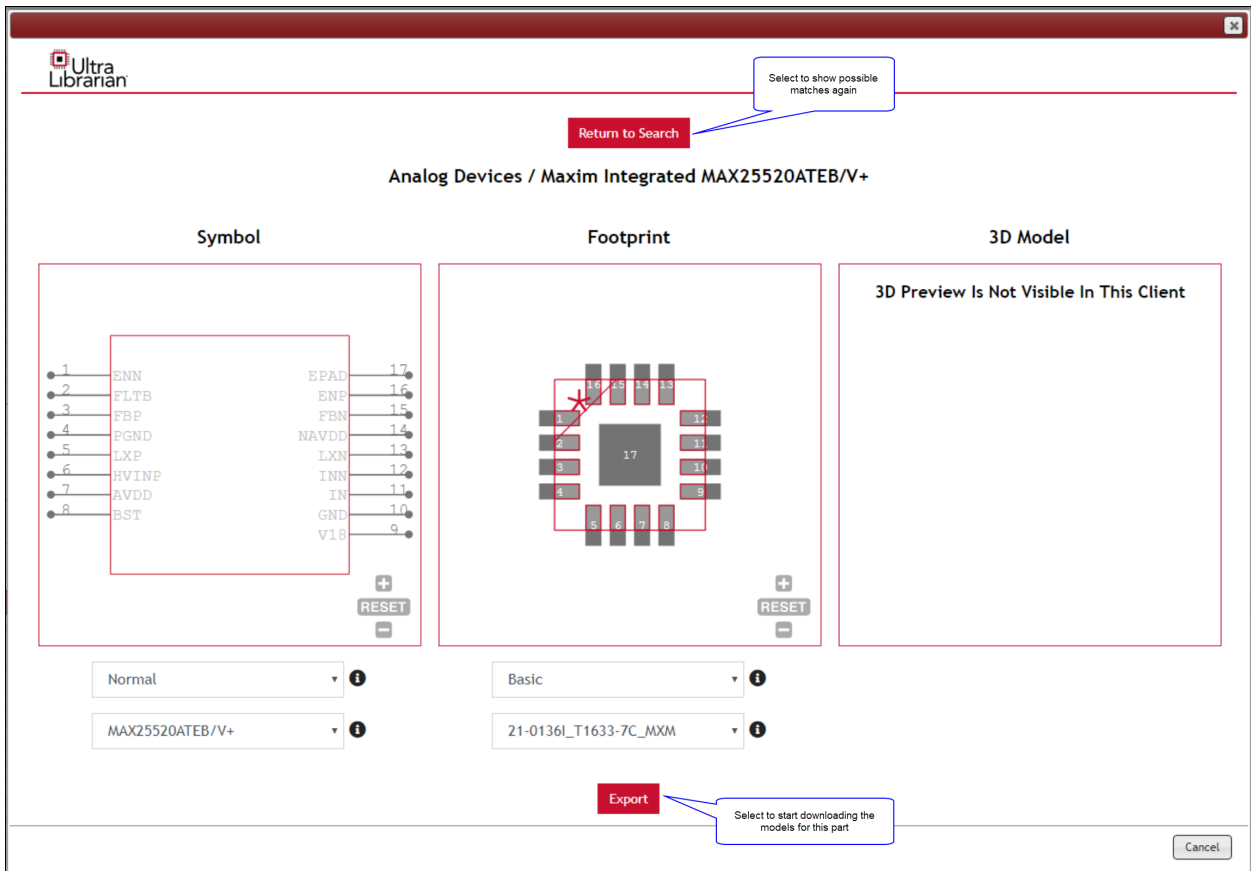
1. Using the CIP client running inside Capture, select the manufacturer part section of part you wish to download.



2. Click on the Ultra Librarian symbol next to the manufacturer part number.
3. A pop up shows with possible part matches with ECAD models.






4. Select **Preview** button to view the ECAD Models for each part.




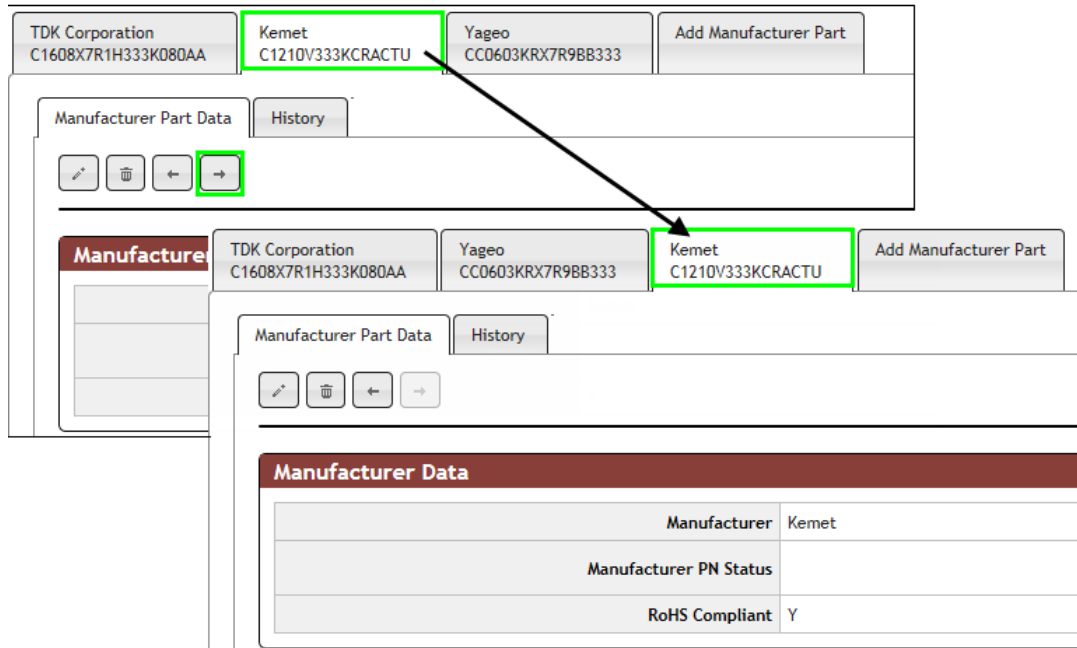
5. If this model does not match what you need, click the **Return to Search** button to continue previewing the next part.
6. When you've found a match, click the **Export** button to start download. If [Common Directories](#) have been configured, the download will start immediately. If no common directories are configured, a dialog for [Download Ultra Librarian Symbol to local directories](#) appears. [Select locations for your download files](#) and export.
7. When download is completed, the part is updated with the new symbol and PCB Footprint name appended as shown in the following example.

Component Details			
PART_NUMBER	TMP-4	Part Type	Unassigned Part Type
Description	LCD Drivers Automotive 2-Ch TFT-LCD Power Supply Automotive 2-Ch TFT-LCD PowerSupply	Value	MAX25520ATEC/V-
PCB Footprint	UNASSIGNED_21-0136I_t1633-7c_mxm,21-0136I_t1633-7c_mxm-l,21-0136I_t1633-7c_mxm-m	Schematic Part	UNASSIGNED_MAX25520ATEBV/MAX25520ATEBV

4.3.1.15 Change Order of Manufacturer Parts

By default, the tab display of manufacturer parts is presented alphabetically. To change the tab order, select the Manufacturer Part you want to re-order and click the **Move Left**  or **Move Right**  button. The new tab order updates as the page refreshes. The Move Right button  becomes disabled when a manufacturer part is in the far


right position. Similarly, the Move Left button,  becomes disabled when Manufacturer Part is in the left-most position.






Click Move Right (or Left) Button to Change Manufacturer Part Tab Order

4.3.2 Comparing a Schematic Part and PCB Footprint

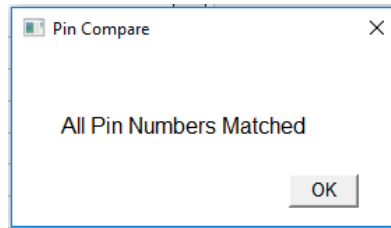
You can use CIP to compare Capture symbols and PCB footprints of a part from Capture.

To compare a Capture symbol and PCB footprint, open the desired part from Capture. Click the Compare button  to open a side-by-side view of the schematic part and PCB footprint.

PART_NUMBER		EMA-00000124V22	Part Type	EMA\Ceramic\SMD\0603
Description	CAP, Ceramic, SMD, 0.01 uF, 10 %, 50 V, 0603		Value	0.01uF
PCB Footprint	CAPC3216X140N 		Schematic Part	CAPACITORS\CAP  
Number of Pins	2		Operating Temperature Maximum	125 C
Operating Temperature Minimum	-55 C		Package Size	0603
Package Height	0.87 mm		Package Type	SMD

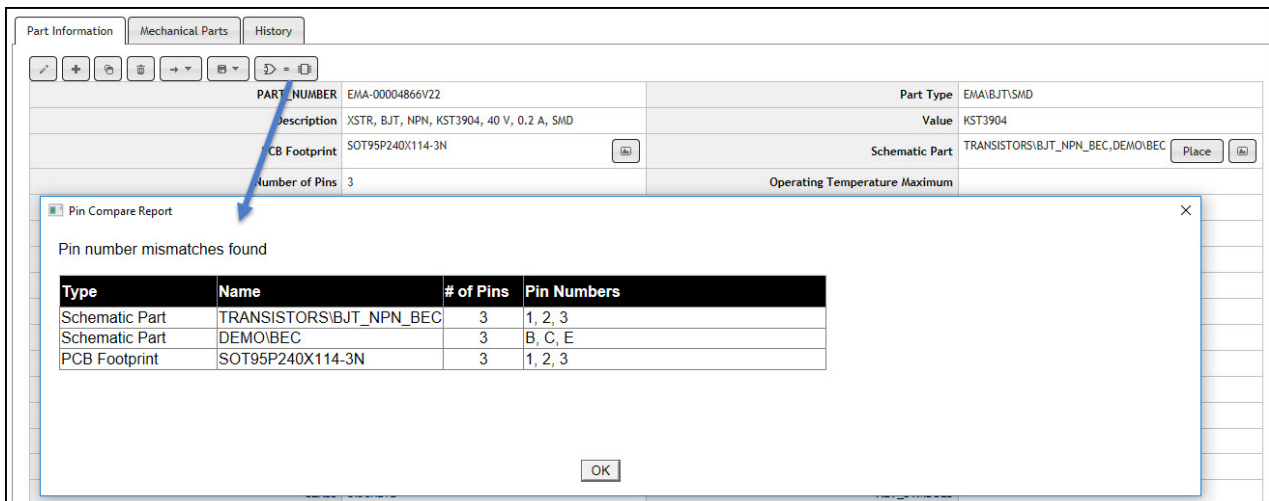
CIP Compare Button to Compare Footprint and Symbol Pins

Allegro PCB Editor opens each PCB footprint associated with the part and extracts the pin count and pin numbers for each footprint. The pin numbers and count from each footprint is compared to the pin numbers and count for the Schematic Part. When all pin numbers and counts match, the following pop up message opens.



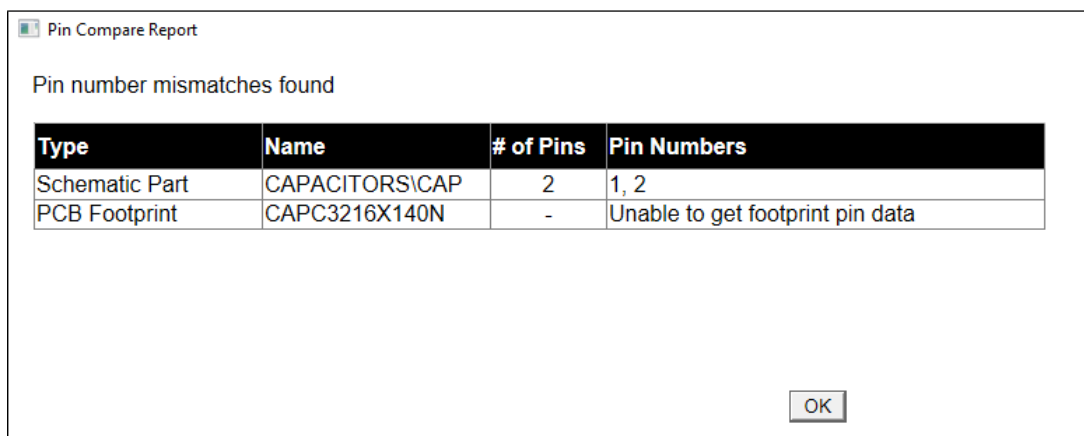
Pin Compare Successfully Completed

If discrepancies are found, the pin numbers and counts for each part are documented in the Pin Compare Report, as shown in the following figure.



Pin Compare Report

If a PCB Editor license is unavailable at the time, the Pin Compare Report informs you the system was unable to get footprint pin data.




CIP Pin Compare Report with Unavailable Footprint Data


Note: Mechanical pins are excluded in the comparison.

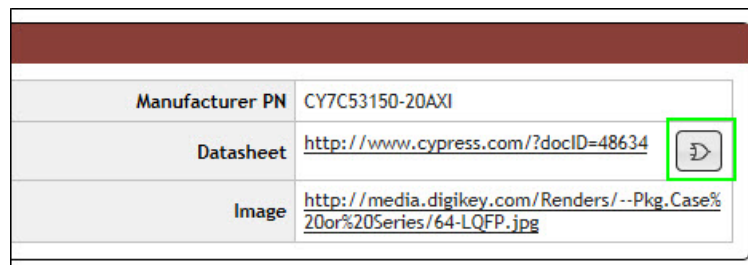
4.3.3 Launching Library Builder to Create Schematic Part and PCB Footprint

You can launch Library Builder from CIP to create Capture symbols and PCB footprints. This capability is available when you configure Library Builder in the CIP Client Settings while running Capture. Creation of System Capture symbol is not available when using OrCAD Library Builder.

To use this feature, open CIP from Capture. Then open a part that has a manufacturer PN and Datasheet link

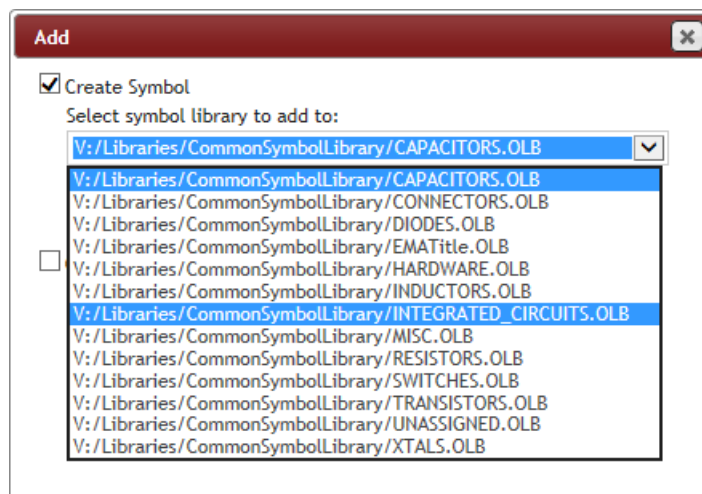
associated to it. If Library Builder is properly configured, the Symbol button  displays next to the manufacturer PN's Datasheet link.

Click the **Symbol** button  which opens a new pop up window.



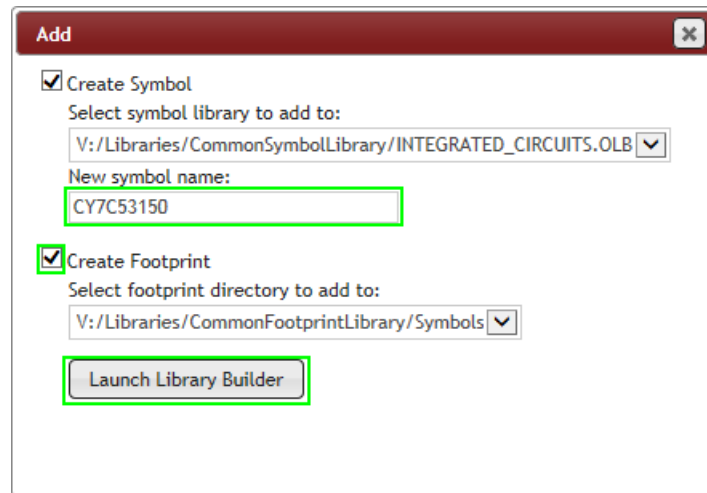
Click the Symbol Button

Select the checkboxes next to Create Symbol and/or Create Footprint depending on which you want to create. Then, click the drop arrow and browse to a Capture .OLB library for archiving the new symbol.



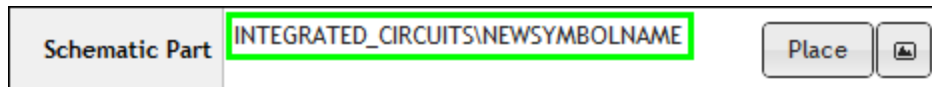
Select .OLB Library Name Location for New Symbol

Enter a new symbol name into the input field. If creating a footprint as well, select the path to the desired footprint location. The paths/libraries list is read from the Capture user's CAPTURE.INI file. Then click the Launch Library Builder button. Library Builder opens. Take the appropriate steps to create the new symbol and/or footprint. Create and export each of the selected items.

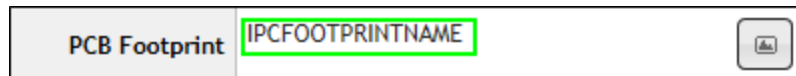


Enter New Symbol Name, then click Launch Library Builder

After you create and export your items, Library Builder closes and the Schematic Part field populates with the <SelectedLibraryName>\<NewSymbolName>. The PCB Footprint field populates with the footprint name of the created footprint. The symbol is ready to be previewed and/or placed.



Schematic Part has been populated and the symbol can now be previewed/placed.





Note: CIP may log you out when creation of a symbol or footprint takes too long. When this happens, you will need to log into CIP to complete the part update with the symbol and footprint names.

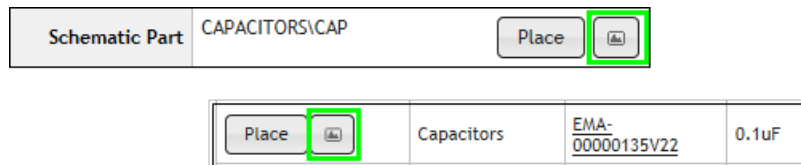
4.3.4 Previewing and Placing a Schematic Part

When you open CIP from OrCAD Capture, you can preview a part before placing or place directly onto a schematic. You must have a schematic design and page opened in Capture before placing a part. The preview screen uses the same theme as your settings for Capture CIS.

Note: Preview of a part before placing is not available in System Capture. In System Capture, you are able to place a formal part from the Component details page. Placing of TMP parts is not available from System Capture. Only 1 System Capture Part is allowed per part. The place button will place the symbol.

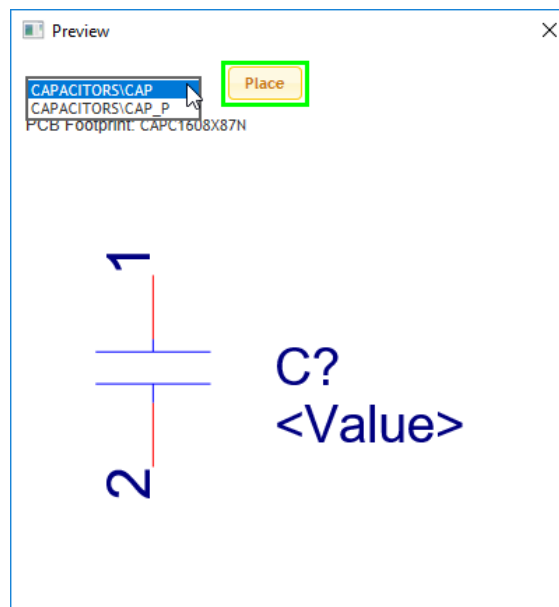
You may preview or place a part when the **Preview**  or **Place** buttons are available. These buttons additionally appear in various views in OrCAD Capture.

To place a schematic part, click the **Place** button to place the symbol on the active schematic page. You may preview the symbol before placing it by selecting the **Preview** button .



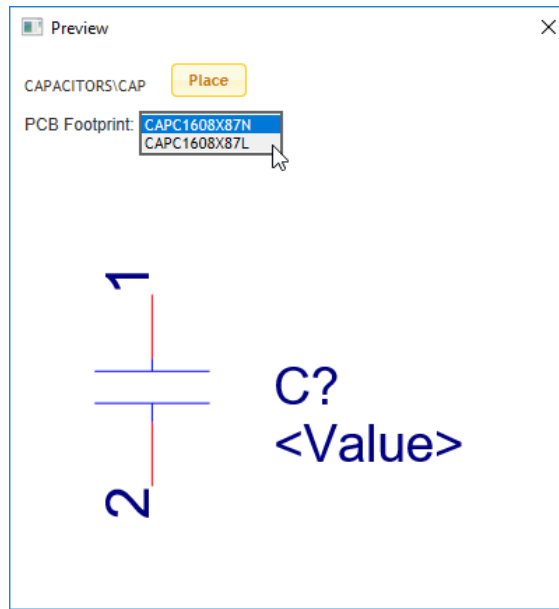
Examples of Click Part Preview Button

Selecting the **Place** button when there are multiple symbols (e.g. CAPACITORS\CAP, CAPACITORS\CAP_P...) will automatically place the first symbol in the list. To place other symbols, preview the symbol first by clicking the **Preview** button next to the **Place** button. The symbol preview window opens with a drop-down list of symbols. Select the symbol from the drop-down list you wish to use as shown in the image below. Click the **Place** button to place the part on the active schematic page. Properties defined in your configured DBC file will be included with the placed part on the schematic page. If the Manufacturer and Manufacturer PN properties are configured for transfer to design, the manufacturer part in the left most tab will be included with the placed part. To transfer a different manufacturer part to the design, review section on [Change Order of Manufacturer Parts](#).



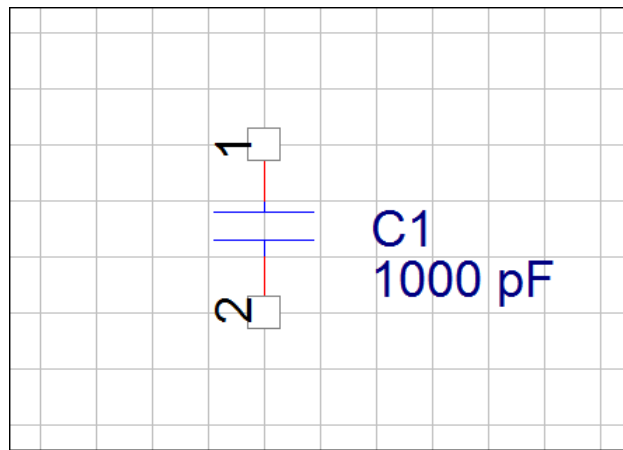
Preview Alternate Parts using the dropdown

When you have more than one footprint for a part, by default the first footprint in the list is assigned to the part when you click the **Place** button. If you want to assign a different footprint to the part, click the **Preview** button to preview the Schematic Part. In the preview window, select the desired **PCB Footprint** from the drop-down list as shown in the image below. Click the **Place** button to place onto active schematic page.



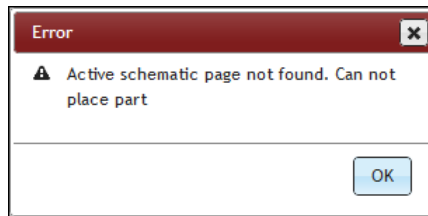
Select Alternate Footprint for Part Before Placing

Your successfully placed symbol will contain your selected PCB footprint.



Part Placed Successfully

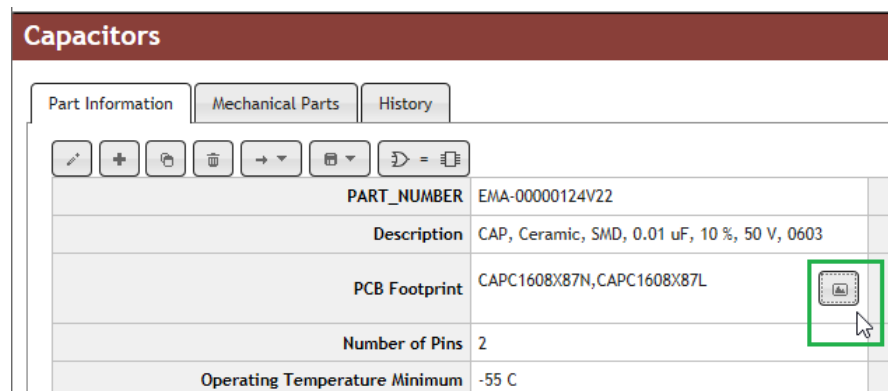
If the following error message opens when you click the Place button, open a schematic page and try to place the part again.



Error when Active Schematic Not Found

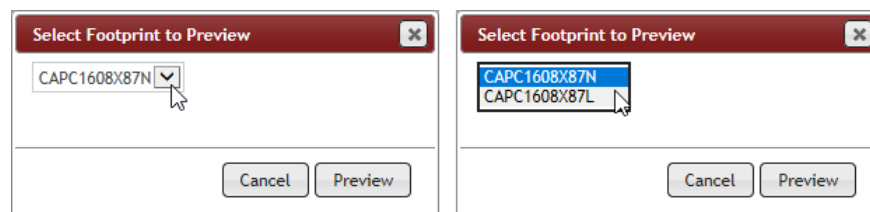
4.3.5 Previewing a PCB Footprint

When you open CIP from Capture you can view PCB Footprints from CIP. To preview a PCB footprint, open CIP from Capture. Open the desired part and click the **Preview** button to the right of the PCB Footprint field.



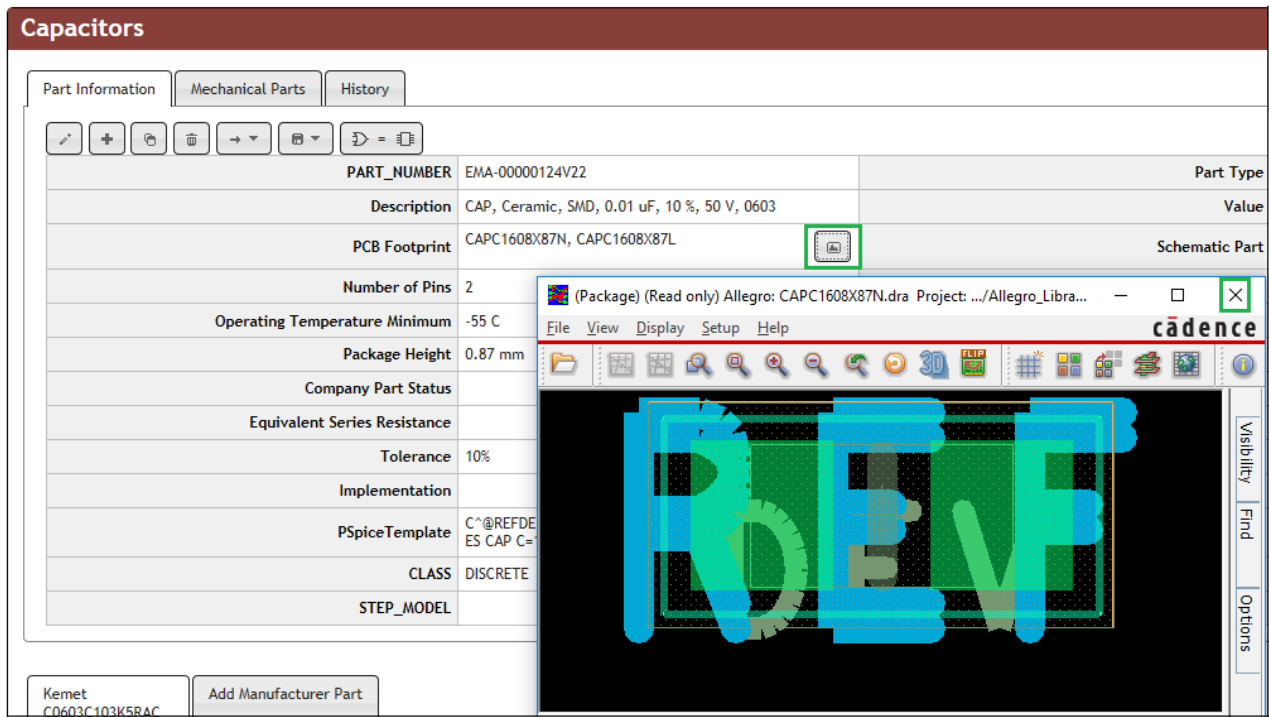
Preview Footprint Button

When your part has more than one footprint, you can select the footprint you want to preview from a drop-down list. When you select the **Preview** button, the viewer configured in your CIP Settings will open the selected footprint.



Select Alternate Footprint to Preview

You will receive alerts if a footprint viewer is not configured or if you do not have [Allegro Footprint] configured in your Capture.ini file. See the CIP Client Installation Guide, topic "Updating the CAPTURE.INI File on a Local Client Machine," for instructions that explain how to edit your Capture.ini file.

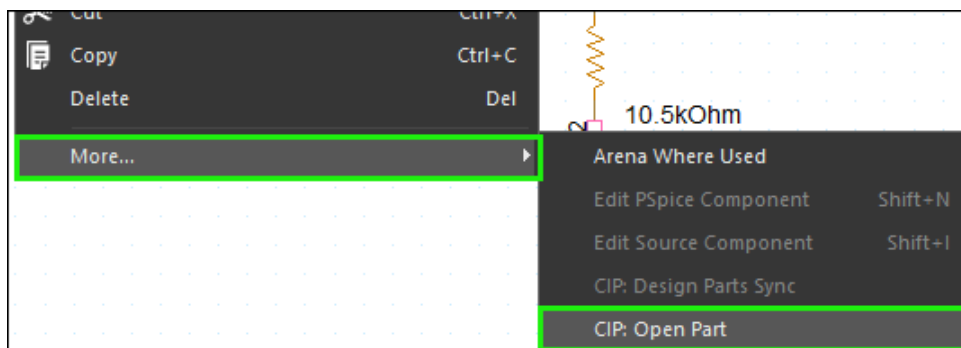


Preview PCB Footprint

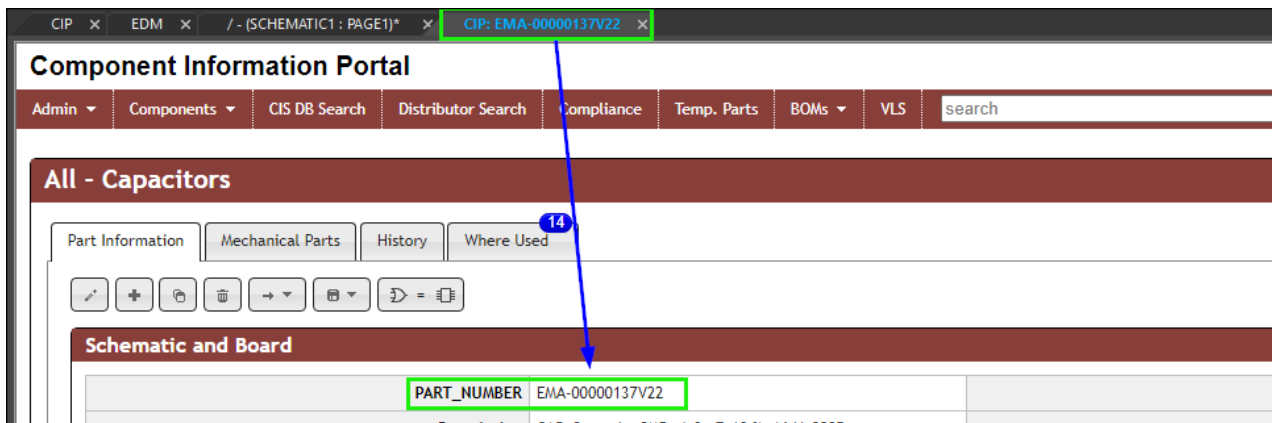
4.3.6 Open CIP Part from a Schematic Page

You can open CIP and view a part from an open schematic design page. Open a part in CIP from the schematic active page by right-clicking (RMB) inside an open schematic design page and selecting **More... > CIP: Open Part**. This will open a CIP tab (named CIP: <PART_NUMBER>) with the part number displayed. The tab shows a regular CIP page so you can perform the usual CIP actions inside it, or you may close it.

Note: This feature requires OrCAD Capture and the CIP Client plugin. It is not available when using the System Capture plugin.



Open Part in CIP from RMB on an Open Schematic Page

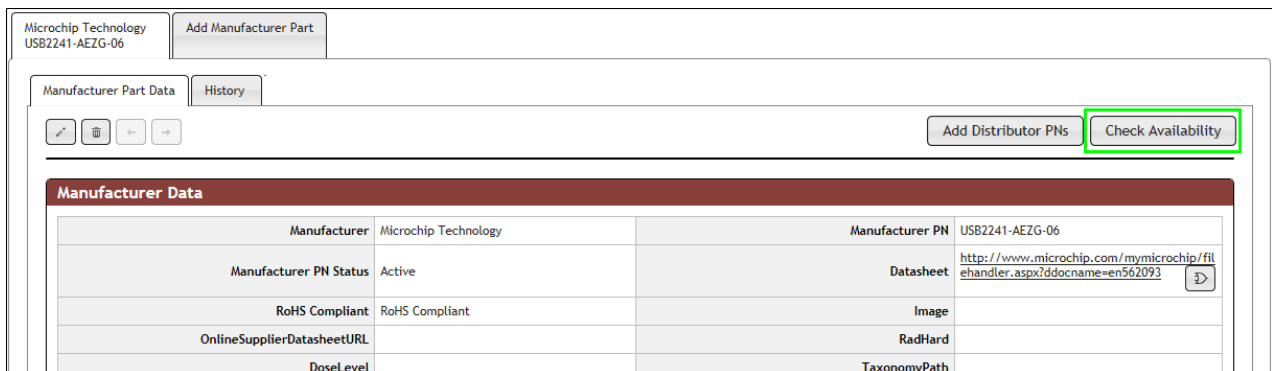


CIP tab shows the part in CIP

4.3.7 Checking Availability of a Manufacturer Part

You can use CIP to search web distributors for the availability and pricing of the manufacturer part you are viewing. To initiate this search, open the Component Information page and scroll down to the Manufacturer Part tab and click the **Check Availability** button.

The search is launched without impacting part information in your database. Anyone can conduct this search.



The results of your search display in a separate browser window.

4.3.8 Part History

CIP stores Component History, history of Component to Manufacturer parts, and Manufacturer Part History. To view the history of a part, click the **History** tab for either the company part or a manufacturer part.

The screenshot displays the 'History' tab for a part and manufacturer part. The 'PART_NUMBER' field is highlighted in yellow. The 'Manufacturer Part Data' section shows 'AVX Corporation TAJA105K016RNJ' and 'Add Manufacturer Part' button. The 'History' tab is also highlighted in yellow.

Property	Value	Property	Value
Part Type	Unassigned Part Type	Value	1uF
Description	CAP TANT 1UF 10% 16V 1206	Schematic Part	UNASSIGNED
PCB Footprint	UNASSIGNED	Operating Temperature Maximum	-55C - 125C
Number of Pins		Package Size	1206 (3216 Metric)
Operating Temperature Minimum		Package Type	Surface Mount
Package Height	0.071" (1.80mm)	Dielectric Type	
Company Part Status		Temperature Coefficient	
Equivalent Series Resistance	11 Ohm	Rated Voltage	16V
Tolerance	10%	CLASS	DISCRETE
Device Type	Capacitors	STEP_MODEL	
ALT_SYMBOLS		Last Modified By	Admin
Last Modified	Dec 10 2018 10:36AM		

This is a temporary part. To assign this part to an existing part, select the existing part in the drop down list and click the Assign to Part button.

AVX Corporation
TAJA105K016RNJ

Add Manufacturer Part

Manufacturer Part Data

History

Add Distributor PNs Check Availability

History for Part and Manufacturer Part

The history of a company part may be viewed from either the "Component History" or "Component to Manufacturer History" tabs. As shown in the graphic figure that follows, historical changes for component history and manufacturer part history are highlighted in yellow. The fields of a component table that are disabled from Track History (Admin > Configuration > Component table) are excluded from the history view. The graphic below, for example, shows the exclusion of the fields: Implementation, Implementation Type, and PSpice Template. In this example, the Track History property for these fields are disabled from the Admin > Configuration > CIP_Capacitor table. Properties values that are modified are presented in yellow.

Part Information				
Mechanical Parts				
History				
Component History				
Component to Manufacturer History				
Last Modified	12/10/2018 10:49:50 AM	12/10/2018 10:49:32 AM	12/10/2018 10:48:43 AM	12/10/2018 10:36:52 AM
Last Modified By	Admin	Admin	Admin	Admin
PART_NUMBER	CAP-00000001	TMP-4	TMP-4	TMP-4
Part Type	--\1206 (3216 Metric)	--\1206 (3216 Metric)	Unassigned Part Type	Unassigned Part Type
Description	CAP TANT 1UF 10% 16V 1206	CAP TANT 1UF 10% 16V 1206	CAP TANT 1UF 10% 16V 1206	CAP TANT 1UF 10% 16V 1206
Value	1uF	1uF	1uF	1uF
PCB Footprint	UNASSIGNED	UNASSIGNED	UNASSIGNED	UNASSIGNED
Schematic Part	UNASSIGNED	UNASSIGNED	UNASSIGNED	UNASSIGNED
Number of Pins				
Operating Temperature Maximum	-55C ~ 125C	-55C ~ 125C	-55C ~ 125C	-55C ~ 125C
Operating Temperature Minimum				
Package Size	1206 (3216 Metric)	1206 (3216 Metric)	1206 (3216 Metric)	1206 (3216 Metric)
Package Height	0.071" (1.80mm)	0.071" (1.80mm)	0.071" (1.80mm)	0.071" (1.80mm)
Package Type				Surface Mount
Company Part Status	pending	pending	pending	
Rated Voltage	16V	16V	16V	16V
Device Type	Capacitors	Capacitors	Capacitors	Capacitors
CLASS	DISCRETE	DISCRETE	DISCRETE	DISCRETE

Component History

When the number of modifications are greater than 25 records, modifications are presented in multiple pages.

Part Information		
Mechanical Parts		
History		
Component History		
Component to Manufacturer History		
Page 1 of 2. 1 2 »		

Pages of Part History

The screen image shown below shows the history of associations of manufacturer parts to the component. This history is accessed from the view of the company part's **History > Component to Manufacturer History**

Part Information		Mechanical Parts		History	
Component History		Component to Manufacturer History			
Last Modified	Modified By	Manufacturer	Manufacturer PN	Order	Action
11/7/2023 4:34:55 PM	Admin	KYOCERA AVX	TAJA105K016RNJ	2	Added
11/7/2023 10:29:31 AM	Admin	AVX	TAJA105K016S	1	Added
11/7/2023 10:29:31 AM	Admin	AVX	TAJA105K016R	0	Added

Component to Manufacturer History

The **Manufacturer Part History** may be viewed in the manufacturer part's History tab that is located next to the **Manufacturer Part Data** tab.

AVX Corporation TAJA105K016RNJ		Add Manufacturer Part
Manufacturer Part Data		History
Last Modified	12/10/2018 10:36:52 AM	
Last Modified By	Admin	
Manufacturer	AVX Corporation	
Manufacturer PN	TAJA105K016RNJ	
Manufacturer PN Status	Active	
Datasheet	http://datasheets.avx.com/TAJ.pdf	
RoHS Compliant	RoHS Compliant	
Image	http://media.digikey.com/photos/AVX%20Photos/OxiCap%20NOJ%20SERIES%201.6H,3.2L,1.6W.jpg	

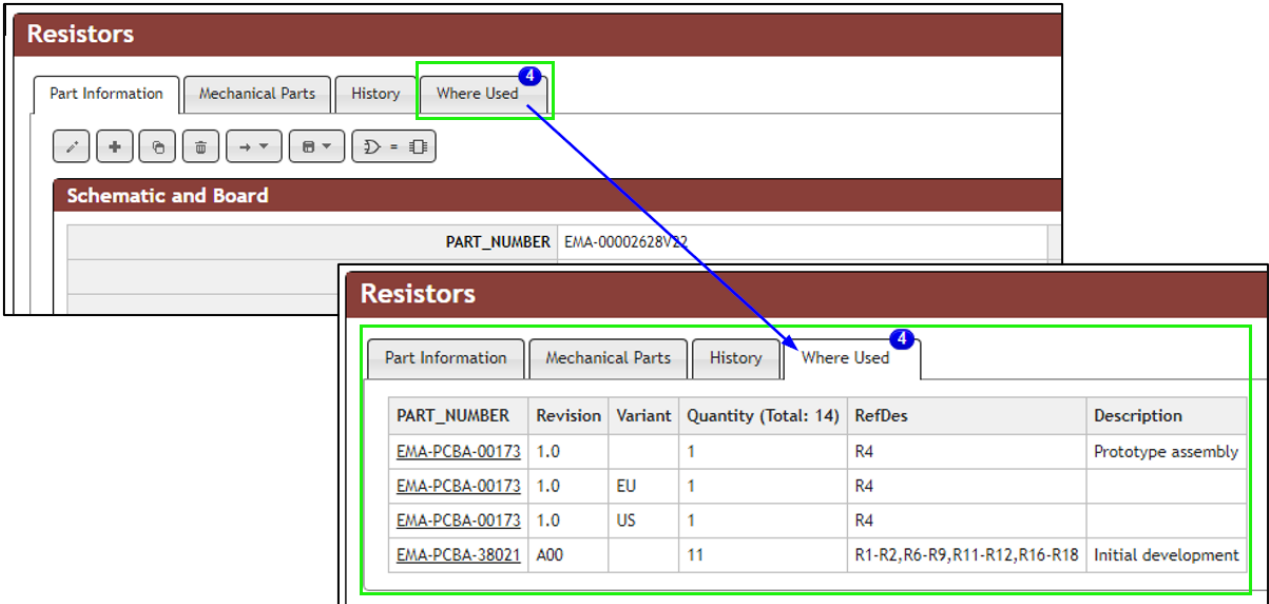
Manufacturer Part History

4.3.9 Where Used

You can find out where a component or a manufacturer part is used by selecting **Where Used** on a component page.

Component Where Used

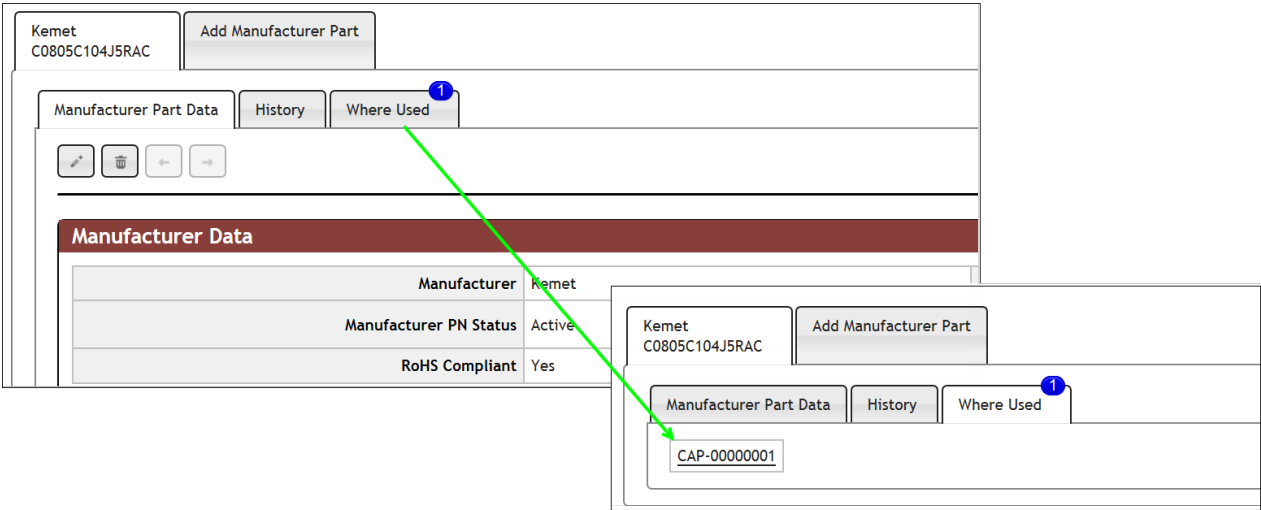
Parts that are associated to BOMs are identified in the Where Used tab of the part data of the Part Information Page. As identified in the graphic below, the number of BOMs are shown in a blue circle. When you select the **Where Used** tab, the list of BOM **PART_NUMBERS** containing the selected part, along with the **Revision**, **Variant**, **Quantity (Total: <TotalQuantity>)**, **RefDes**, and **Description**. The **Where Used** tab only becomes visible when the part is associated to a BOM. To go to a specific BOM-Revision-Variant, click on the **PART_NUMBER** link to the BOM.



Manufacturer Part Where Used

Manufacturer parts that are associated to multiple component part numbers are identified in the **Where Used** tab under the Manufacturer Data section of the Part Information Page. As shown in the graphic below, the number of additional part numbers are shown in blue circle. When you select the Where Used tab, the list of part numbers display.

The **Where Used** tab only displays when the manufacturer part is associated with another part.



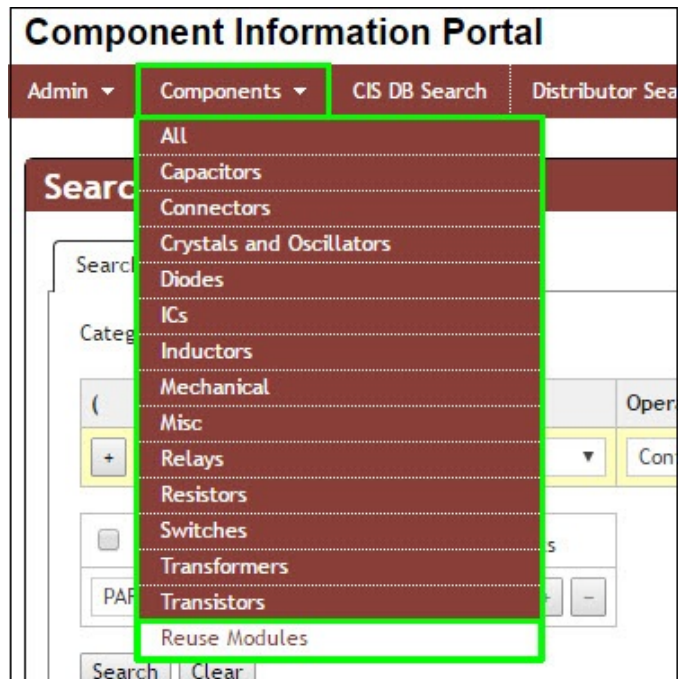
4.4 Creating Reuse Modules

Reuse Modules enable you to save design and part information for reuse in a subsequent design. This reduces work when a portion of a design is duplicated across multiple designs. Additionally, BOMs that are created for designs that use the Reuse Modules feature, may include the Reuse Module's respective parts and labels.


The following instructions describe how to create and place Reuse Modules.

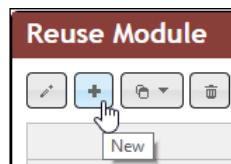
To create a Reuse Module from the Component menu

1. Open the design you want to use from Capture CIS.
2. With the design open, select the **Components > Reuse Modules** menu items.




Select Reuse Modules

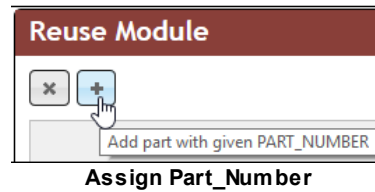
3. Click the **Reuse Module > New** button  to open a new blank Reuse Module creation form.



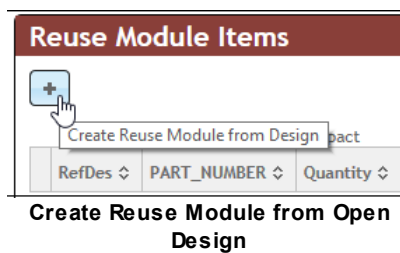
Open Blank Form

4. Enter information into the blank Reuse Module form. Required information includes a minimum of Part Number and Revision. It is also recommended you enter a Description.

- Click the **Add** button  to assign the part number you entered into the form to your new reuse module.



- To add the design and parts to your Reuse Module Part Number, in the Reuse Module Items section of your screen, click the **Create Reuse Module From Design**  button.

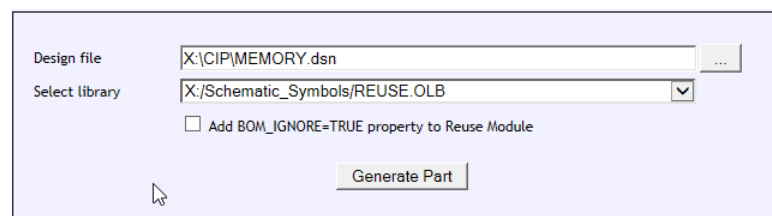


The Reuse Module pop up dialog box opens.

- Select the open design from which you want to create the Reuse Module.


Your selection populates the **Design file** field. You must annotate your design to ensure there are no duplicate reference designators before creating the Reuse Module in CIP.

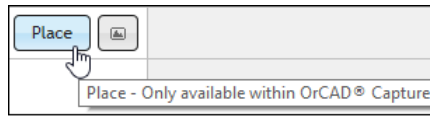
- Select the library to add your reuse design symbol by using the **Select Library** drop-arrow and browse to select a library location.



- Select the **Add BOM_IGNORE=TRUE property to Reuse module** checkbox if you want to add the property BOM_IGNORE=TRUE to the created Reuse Module. CIS Part Manager excludes Reuse Modules that have the property BOM_IGNORE=TRUE.
- Click the **Generate Part** button to create your new Reuse Module.

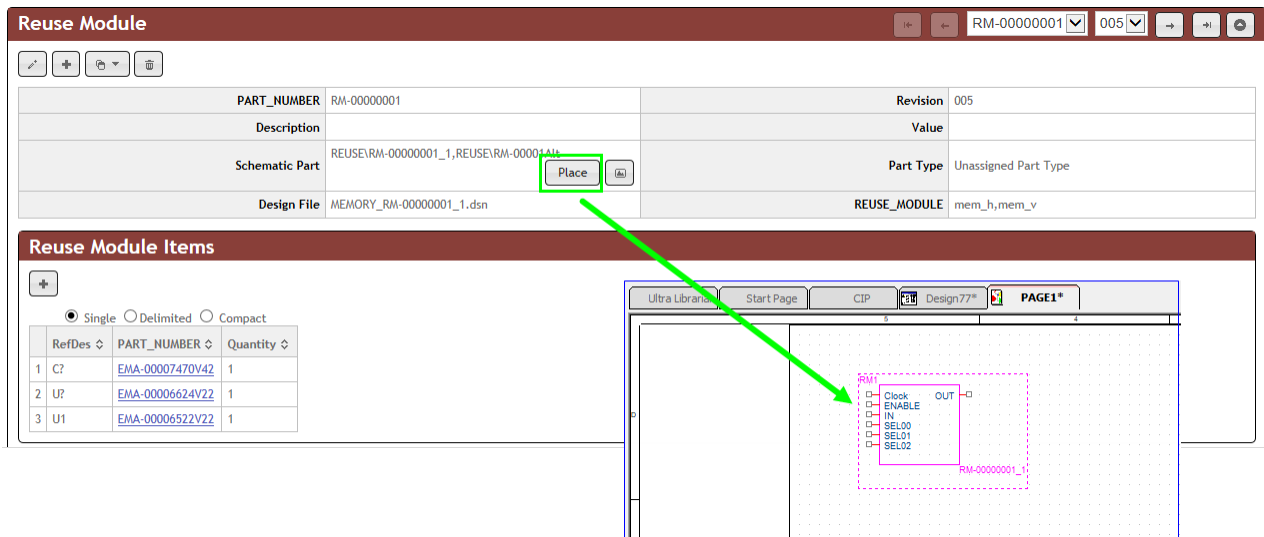
To Place a Reuse Module

You can place your Reuse Module into an open design by clicking the **Place** button  that is available from the **Component > Reuse Module** page. This feature is only available when you open CIP from Capture CIS.





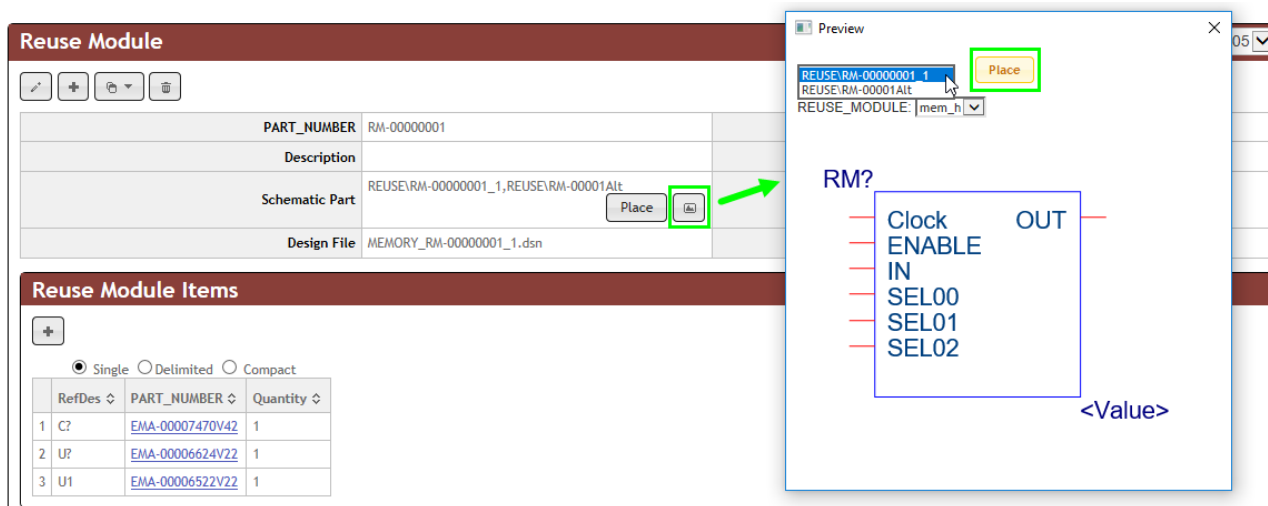
Place Reuse Module

When you are finished placing, press the **Esc** key on your keyboard to stop placement.



Place Your Reuse Module into Your Schematic Design

When you have multiple reuse modules and click the **Place** button  the first item in the list attaches to your cursor for design placement. If you want to select an alternate reuse design, click the **Preview** button  and choose the module you want to place from the REUSE_MODULE drop list as shown in the example below.



Preview and Select an Alternate Reuse Module for Placement

4.5 CIS DB Search

Searching for parts from CIP can be done through the CIS DB Search menu or a keyword search.

In CIS DB Search there are three types of part searches you can conduct:

- Search
- Part Type
- History Search

Each search type is accessible through a tab. The **Search** tab allows users to conduct a search that is based on criteria they define. The **Part Type** tab uses the same Part Type tree structure as the Capture CIS Explorer window. The **History Search** tab allows users to conduct a search by the date parts were added, deleted or modified.

When performing the search from Capture, the preview and place buttons are located next to each part number included in the search results.

Note: Preview and place buttons are not available in search results when CIP is opened in System Capture.

Search

Component View: All

(	Parametric Field	Operator	Parameter	)	Condition	Order	Add/Remove
+ -	PART_NUMBER	Contains	124	+ -		▲ ▼	+ -

Include Additional Fields in Search Results

PART_NUMBER + -

Search Clear

Select a Search

Saved Search	Default Search
▼	Delete Set Clear

Save a Search

Name	Global
	<input type="checkbox"/> Save

Export For Excel

Matches: 17

Component View	PART_NUMBER
Capacitors	EMA-0000124V22
Capacitors	EMA-0000124V22
Capacitors	EMA-00001240V22

Place Preview

Place and Preview buttons are only available when CIP is opened from CIS

CIS DB Search

4.5.1 Keyword Search

The quick/keyword search is available along the top bar. Regardless of what screen you are in you can type a string into the Search input field and click the GO button. CIP returns the results parts that best match any part of or the entire string. This functionality allows you to enter parametric data into the search string that may not be in an exact order in your database. Top 100 matches will appear in the search results. Exact part number search will only return one result.



Keyword Search in the Top Bar in CIP

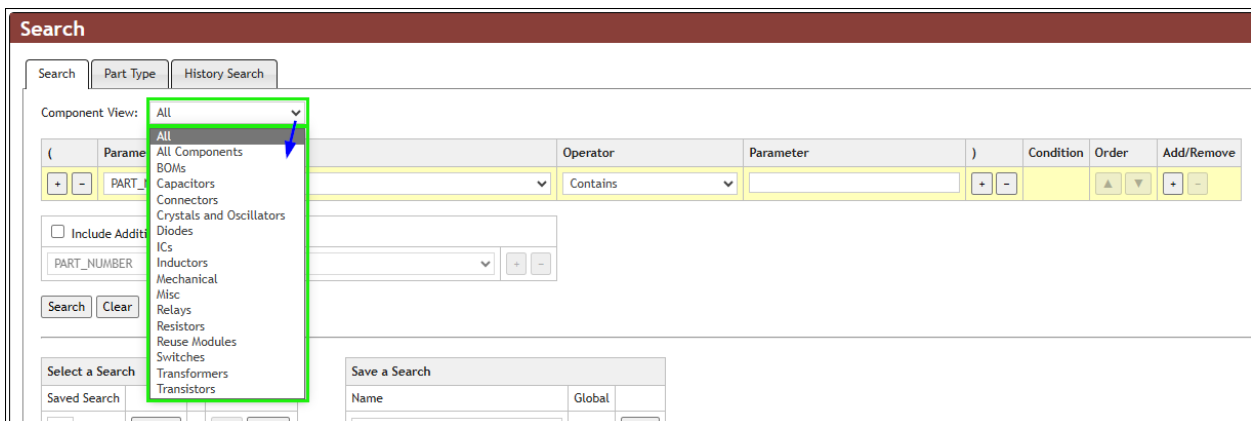
If you prefer the original search functionality, you may [disable full search](#) from the Admin > Configuration. When full text search is disabled, the quick/keyword search queries the PART_NUMBER, Part Type, Description, Value, PCB Footprint, and Schematic Part fields to match the search string entered by the user.

4.5.2 Defining Search Criteria

The CIS DB Search tab enables you to perform simple searches (such as specifying that a field contains data that meets certain criteria). You can also perform complex searches by adding parenthesis. This enables you to be more specific regarding the criteria of the search.

Search results display in the lower left Search Results area. Search results are displayed 500 at a time. You can cycle through the pages of results using the buttons at the top and bottom of the search results area.

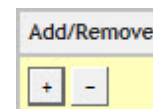
Start by selecting the **Component View** from the drop-down list, which controls which views will be searched.



Component View Selection

The **Component View** selections consist of the following:

1. **All** - Searches across All [Component Views you've configured](#) (Capacitors, Connectors, etc.), as well as [BOMs](#) and [Reuse Modules](#).
2. **All Components** - Searches across All [Component Views you've configured](#), excluding [BOMs](#) and [Reuse Modules](#).
3. **Select <Component View>** - Searches across a specific [Component View you've configured](#).
4. **BOMs** - Searches across your [BOMs](#).
5. **Reuse Modules** - Searches across your [Reuse Modules](#).



For the simple search single level logic, criteria can be expanded using the **Add Row** button. Thus you can add multiple search criteria.

Thus

Search Part Type History Search

Component View: All

(	Parametric Field	Operator	Parameter	)	Condition
+ -	Dielectric Type	Contains	Cer	+ -	

Include Additional Fields in Search Results

PART_NUMBER + -

Search Clear

Select a Search

Saved Search	Default Search
▼	Delete Set Clear

Save a Search

Name	Global
	<input type="checkbox"/> Save

Export For Excel

Showing items 1 through 500 of 1158. 1 2 3 »

Matches: 1158

	Component View	PART_NUMBER	Dielectric Type
Place	Capacitors	EMA-00000124V22	Ceramic
Place	Capacitors	EMA-00000128V22	Ceramic
Place	Capacitors	EMA-00000130V22	Ceramic

Search Criteria and Results

You can conduct a complex search using as many levels of logic as you need to find a specific part. You can add parentheses to specify the behavior and search order of operations in your search. The figure below provides an example. In this example, you remember a partial part number, the value, and that it is one of two sizes. You can specify a query where all parts that meet this criteria are displayed.

The screenshot displays the CIP search interface. At the top, a search query builder table is shown with columns: Parametric Field, Operator, Parameter, Condition, Order, and Add/Remove. The query is: (PART_NUMBER Contains EMA-0000102 (Value Contains 0.01uf | (Part Type Contains Ceramic | | Part Type Contains 0603) | | Part Type Contains Ceramic | | Part Type Contains 1206)) .

Below the query builder is a search options section with a checked box for "Include Additional Fields in Search Results" and a "Value" dropdown. Below that are "Select a Search" and "Save a Search" sections. The "Export" section has an unchecked box for "For Excel".

The search results table shows 6 matches:

	Component View	PART_NUMBER	Value	Part Type
Place	Capacitors	EMA-00001021V22	0.01uF	EMA\Ceramic\SMD\0603
Place	Capacitors	EMA-00001022V22	0.01uF	EMA\Ceramic\SMD\0603
Place	Capacitors	EMA-00001025V22	0.01uF	EMA\Ceramic\SMD\1206
Place	Capacitors	EMA-00001026V22	0.01uF	EMA\Ceramic\SMD\1206
Place	Capacitors	EMA-00001027V22	0.01uF	EMA\Ceramic\SMD\1206
Place	Capacitors	EMA-00001028V22	0.01uF	EMA\Ceramic\SMD\1206

Controlling Search Order and Behavior

See section topic, [Previewing and Placing a Schematic Part](#) to place a part retrieved from your search.

Only configured views are available in the Search Pull-down list. You may select an individual view or "All" views. This method of searching helps when you search for a specific part type, such as a capacitor or a resistor. Selecting one of the parts in the Search Results area opens the parametric data for that part in a separate form.

Capacitors		EMA-0000382V22	
Part Information	Mechanical Parts	History	
PART_NUMBER	EMA-0000382V22	Part Type	EMA\Ceramic\SMD\0805
Description	CAP, Ceramic, SMD, 0.012 uF, 10 %, 50 V, 0805	Value	0.012 uF
PCB Footprint	CAPC2012X71N	Schematic Part	CAP
Number of Pins	2	Operating Temperature Maximum	125 C
Operating Temperature Minimum	-55 C	Package Size	0805
Package Height	0.71 mm	Package Type	SMD
Company Part Status		Dielectric Type	Ceramic
Equivalent Series Resistance		Temperature Coefficient	X7R
Tolerance	10 %	Rated Voltage	50 V

Selected Part from Search Results

4.5.3 Including Additional Fields in Search Results

If you check the option, **Include Additional Fields in Search Results**, you are able to specify additional search fields from the pull-down menu. This helps you obtain data from other fields whether data populates the field.

(	Parametric Field	Operator	Parameter	)	Condition
+ -	Dielectric Type	Contains	Cer	+ -	AND
+ -	Temperature Coefficient	Contains	X7R	+ -	

Include Additional Fields in Search Results

PCB Footprint + -

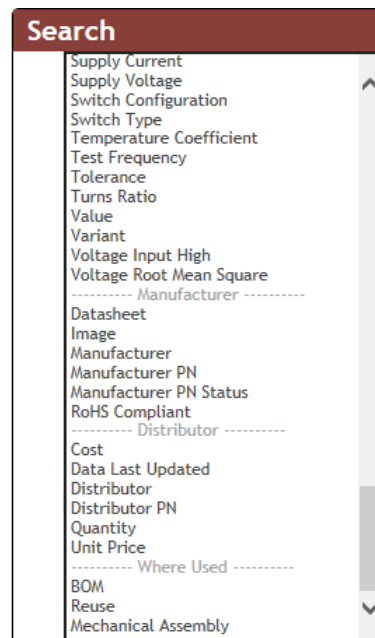
Schematic Part + -

Include Additional Fields in Search

To include additional fields in your search results

1. Check the checkbox **Include Additional Fields in Search Results** and click the field drop arrow. See the image above where green highlighting outlines this checkbox.

The pop up selection list that opens is organized by the groups: Component/BOM; Manufacturer; Distributor; and Where Used.



Pop Up Selection List of Additional Fields

2. Use your left mouse to select the additional field you want to include. Your selection populates the field input.
3. If desired you may click the **Add** or **Remove** button to add or remove an additional field included with your search results.
4. Click the **Search** button to execute your search.

Results are returned in the Search Results area that is located in the lower part of the screen. You can re-order your search results by clicking a field name at the top of a field column. Click the field name again to toggle the column order between ascending and descending order.

Note: When you select either the BOM, Reuse, or Mechanical Assembly field from the Where Used category, a comma separated list of the corresponding items is included in the search results.

Select a Search

Saved Search: [Dropdown] [Delete] [Set] [Clear]

Default Search: [Dropdown] [Set] [Clear]

Save a Search: Name: [Text] Global: Save: [Save]

Export For Excel

Matches: 401

	Component View	PART_NUMBER	Dielectric Type	Temperature Coefficient	PCB Footprint	Schematic Part
[Place] [A]	Capacitors	EMA-00000124V22	Ceramic	X7R	CAPC1608X87N	CAPACITORS\CAP
[Place] [A]	Capacitors	EMA-00000128V22	Ceramic	X7R	CAPC2012X100N	CAPACITORS\CAP
[Place] [A]	Capacitors	EMA-00000130V22	Ceramic	X7R	CAPC4532X102N	CAPACITORS\CAP
[Place] [A]	Capacitors	EMA-00000135V22	Ceramic	X7R	CAPC1608X87N	CAPACITORS\CAP
[Place] [A]	Capacitors	EMA-00000137V22	Ceramic	X7R	CAPC2012X145N	CAPACITORS\CAP

Search Results Including Additional Fields

The above image shows an example of search results retrieved when additional fields were included in the search. This image shows the PCB Footprint and Schematic Part fields that were selected from the Add Additional Fields selection menu.

If desired, you may [save the search criteria](#).

4.5.4 Viewing Last Search

When you view the details of your search results, you can easily return to your last search by clicking the last search link.

Capacitors [Search] [EMA-00001240V22] [Last Search]

Part Information | Mechanical Parts | History

PART_NUMBER: EMA-00001240V22 | Part Type: EMA\Ceramic\SMD\0603

Desc: CAP, Ceramic, SMD, 30 pF, 5.0 %, 50 V, 0603 | Value: 30pF

Last Search Link in Search Results

4.5.5 Smart Value Search

The **Value** field used in Capture can represent the part number or an actual value of a discrete component. When you search for values in discrete components views (i.e. capacitors, resistors, inductors and crystals and oscillators), you can conduct a search using numeric comparison operators that include the following:

- Equals (=)
- Does Not Equal (!=)
- Greater Than (>)

- Greater Than or Equal (\geq)
- Less Than ($<$)
- Less Than or Equal (\leq)

Note: If you do not see these options, consult your database administrator about installing the Smart Value CLR option to the database. The Smart Value CLR feature is not supported by AWS RDS server. If your database is installed on AWS RDS, this functionality will not work.

Parametric Field	Operator	Parameter
Value	Greater Than ($>$)	1KOhm
Value	Less Than ($<$)	2KOhm

Additional Fields in Search Results

NUMBER + -

Clear

Search

Equals ($=$)

Does Not Equal (\neq)

Contains

Does Not Contain

Starts With

Does Not Start With

Ends With

Does Not End With

Contains Data

Does Not Contain Data

Greater Than ($>$)

Greater Than or Equal (\geq)

Less Than ($<$)

Less Than or Equal (\leq)

Defining Numeric Criteria to Filter Search Results


When using one of these criteria, the search algorithm automatically applies the following SI units:

p	pico
n	nano
u	micro
m	milli
K	Kilo
M	Mega

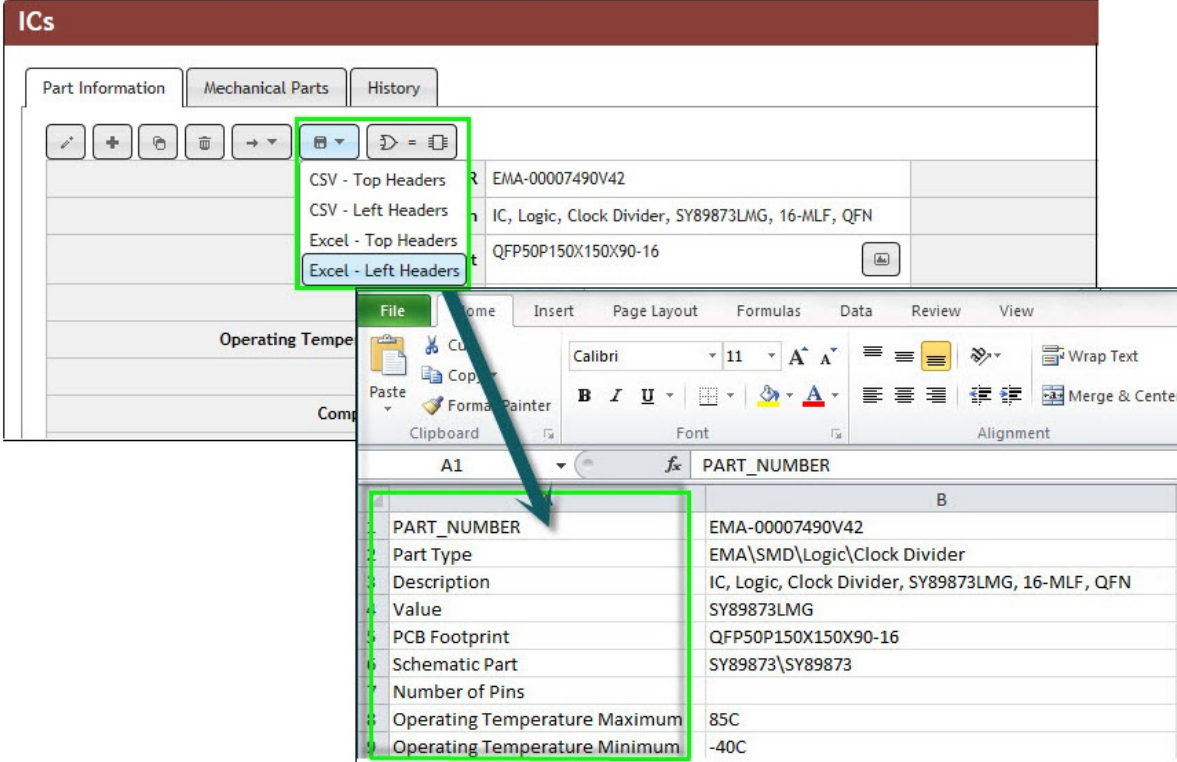
When a numeric comparison Operator ($<$, \leq , $>$, \geq) is selected when searching other Parametric Fields, CIP will automatically attempt to convert the selected Parametric Fields to float/number type when performing the search.

4.5.6 Exporting Part Data to Excel

Once you locate a desired part you can export the part record data to an Excel or CSV formatted file. For each format, you can select to have the Field names appear on the top or on the left, depending on how you want to use the

exported data. For example, if you choose the **Export** button  and select Excel - Left Headers, the resulting Excel formatting has the Field Headers in the left column as shown in the following figure. Relevant data values appear in the cells to the right of the field headers.

Note: Export functionality is not available when using the System Capture plugin.



The screenshot shows the 'ICs' application window with the 'Export' button highlighted in a green box. A dropdown menu is open, showing options: 'CSV - Top Headers', 'CSV - Left Headers', 'Excel - Top Headers', and 'Excel - Left Headers'. The 'Excel - Left Headers' option is selected. Below the application window, an Excel spreadsheet is shown with the following data:

PART_NUMBER	EMA-00007490V42
Part Type	EMA\SMD\Logic\Clock Divider
Description	IC, Logic, Clock Divider, SY89873LMG, 16-MLF, QFN
Value	SY89873LMG
PCB Footprint	QFP50P150X150X90-16
Schematic Part	SY89873\SY89873
Number of Pins	
Operating Temperature Maximum	85C
Operating Temperature Minimum	-40C

Export Part Data to Excel

4.5.7 Exporting Search Results

If desired, the Search Results can also be exported to an Excel or CSV formatted file. For Excel format, select the checkbox labeled **For Excel**. A sample is shown below.

Note: Export functionality is not available when using the System Capture plugin.

Component View: Capacitors

(	Parametric Field	Operator	Parameter	)	Condition	Order	Add/Remove
+ -	Dielectric Type	Contains	Cer	+ -	AND	▲ ▼	+ -
+ -	Temperature Coefficient	Contains	X5R	+ -		▲ ▼	+ -

Include Additional Fields in Search Results

PART_NUMBER + -

Search Clear

Select a Search

Saved Search: [] Default Search: []

Save a Search: Name []

Export For Excel

Matches: 35

Component View	PART_NUMBER	Dielectric Type	Temperature Coefficient
Capacitors	EMA-00001731V22	Ceramic	X5R
Capacitors	EMA-00001732V22	Ceramic	X5R
Capacitors	EMA-00001766V22	Ceramic	X5R
Capacitors	EMA-00001767V22	Ceramic	X5R
Capacitors	EMA-00001769V22	Ceramic	X5R
Capacitors	EMA-00001772V22	Ceramic	X5R
Capacitors	EMA-00001787V22	Ceramic	X5R
Capacitors	EMA-00001804	Ceramic	X5R
Capacitors	EMA-00001805V22	Ceramic	X5R
Capacitors	EMA-00001806V22	Ceramic	X5R
Capacitors	EMA-00001810V22	Ceramic	X5R
Capacitors	EMA-00001827V22	Ceramic	X5R
Capacitors	EMA-00001893V22	Ceramic	X5R

Export Search Results to Excel

4.5.8 Using the History Search

Using the History Search feature enables you to specify a date range to determine which parts have been added, modified, or deleted, and by whom. History search may be performed across component views or on manufacturer parts.

Component History Search

The component History Search searches only the data across the component views and displays the component part number and description of parts that meet the specified criteria. To search for a component history, select the Component before specifying your date range and action criteria. Changes to Manufacturer parts associated to a component are excluded from the search.

Search

Search
Part Type
History Search

Component

Action

Added

From 08/29/2023

To 08/31/2023

User

search

📄

Matches: 4

Component View	PART_NUMBER	Description	User	Date
Transistors	XSTR-00000001	SS SOT23 BR XSTR NPN SPCL	Admin	8/31/2023 3:04:18 PM
Diodes	DIO-00000001	SOT-23, SWITCHING	Admin	8/31/2023 3:05:05 PM
Capacitors	CAP-00000002	CAP CER 10UF 16V X7R 1206	Admin	8/31/2023 3:06:02 PM
Inductors	IND-00000001	Inductor, IND 2.2UH 1.8A 66 MOHM SMD	Admin	8/31/2023 3:07:45 PM

Search by History and Date Range

Manufacturer History Search

The Manufacturer History Search searches the data in the manufacturer parts and displays the manufacturer and manufacturer part number along with component information. To conduct a Manufacturer History Search, select the Manufacturer before you specify your date range and action criteria.

Search

Search
Part Type
History Search

Manufacturer

Action

Added

From 08/29/2023

To 08/31/2023

User Admin

search


📄

Matches: 3

Component View	PART_NUMBER	Manufacturer	Manufacturer PN	Description	User	Date
Transistors	XSTR-00000001	onsemi	SSV1MMBTA92LT1	SS SOT23 BR XSTR NPN SPCL	Admin	8/31/2023 3:04:19 PM
Diodes	DIO-00000001	Panjit International Inc.	BAS21A_R1_00001	SOT-23, SWITCHING	Admin	8/31/2023 3:05:05 PM
Inductors	IND-00000001	Würth Elektronik	744025002	Inductor, IND 2.2UH 1.8A 66 MOHM SMD	Admin	8/31/2023 3:07:46 PM

Search by History and Date Range For Manufacturer

Export History Search Results

The list of parts shown in the search results may be export to CSV or Export by clicking the Export  button and selecting the option for your export.

Note: Export functionality is not available when using the System Capture plugin.

4.5.9 Saving Search Criteria

Search criteria can be saved for later use. The criteria and field settings you can save can be specified as either personal or global search criteria. Personal search criteria are only available to the user that saved the search. Global searches can be used by all users. You must first define a search before you can save it. After you defined a search, enter a name to save the search with and click the Save button. If you need to change the criteria of a saved search, you can change the search definition and click the Save button again.

Component View: All

(	Parametric Field	Operator	Parameter	)	Condition
+ -	Dielectric Type	Contains	Cer	+ -	AND
+ -	Temperature Coefficient	Contains	X7R	+ -	

Include Additional Fields in Search Results

PCB Footprint + -

Schematic Part + -

Search Clear

Select a Search

Saved Search	Default Search
<input type="checkbox"/>	<input type="checkbox"/>

Delete Set Clear

Save a Search

Name	Global
<input type="text"/>	<input type="checkbox"/>

Save

Export For Excel

Matches: 401

	Component View	PART_NUMBER	Dielectric Type	Temperature Coefficient
Place	Capacitors	EMA-00000124V22	Ceramic	X7R
Place	Capacitors	EMA-00000128V22	Ceramic	X7R
Place	Capacitors	EMA-00000130V22	Ceramic	X7R

Saving Search Criteria

To save a personal search, enter the desired search name and click **Save**. To save a global search, enter the desired search name, select the **Global** checkbox, and click **Save**.

Select a Search	Save a Search
Saved Search	Name
<input type="text"/>	TMP Part w Symbol-Footprint
Delete Set Clear	Global <input checked="" type="checkbox"/> Save

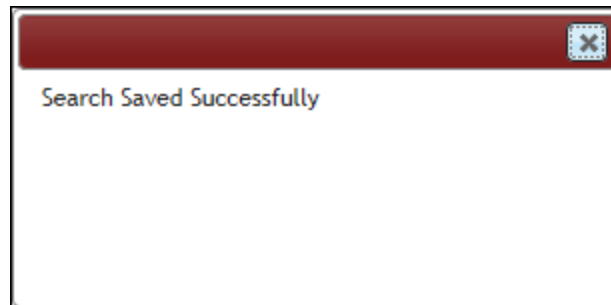
Save Global Search (Uncheck to Save Personal Search)

*NOTE: Users without permission to [create Global searches](#) see a grayed-out Global checkbox that is unavailable.

Select a Search			Save a Search		
Saved Search		Default Search	Name	Global	
▼	Delete	Set Clear	TMP Part w Symbol-Footprint	<input type="checkbox"/>	Save

Save Searches for User Without Global Save Permissions

After saving a search, a pop-up window confirms that your "Search Saved Successfully." Click the **X** button to close the window.



Search Saved Successfully (Click X to Close)

To select a previously defined search, select the name of the saved search from the pull-down window. The searches are grouped by Global and Personal searches.

Note: If the display name of the Saved Search changes, update the template.

Select a Search					
Saved Search		Default Search			
<ul style="list-style-type: none"> Global 10K 1/8W Resistors Personal CompareCost DigikeyPartwithCost TMP Part w Symbol-Footprint 	Delete	Set Clear			

Selecting a Saved Search

If you want to have CIS DB Search select a specific saved search when you navigate to the CIS DB Search page, after selecting the saved search, click the **Set** button under Default Search.

Select a Search			Save a Search		
Saved Search		Default Search	Name	Global	
TMP Part w Symbol-Footprint	<input type="button" value="Delete"/>	<input type="button" value="Set"/>	TMP Part w Symbol-Footprint	<input type="checkbox"/>	<input type="button" value="Save"/>

Setting a Search as Default

If a search is no longer needed as your default, you can clear the default.

Select a Search			Save a Search		
Saved Search		Default Search	Name	Global	
TMP Part w Symbol-Footprint	<input type="button" value="Delete"/>	<input type="button" value="Clear"/>	TMP Part w Symbol-Footprint	<input type="checkbox"/>	<input type="button" value="Save"/>

Clearing a Default Search

If a search is no longer required, you can delete the search from your list by first bringing it up and then clicking the **Delete** button.

Select a Search			Save a Search		
Saved Search		Default Search	Name	Global	
TMP Part w Symbol-Footprint	<input type="button" value="Delete"/>	<input type="button" value="Set"/>	TMP Part w Symbol-Footprint	<input type="checkbox"/>	<input type="button" value="Save"/>

Deleting a Saved Search

Global Saved searches can only be deleted by users with permissions to create global searches. Users without appropriate permission can open the search but are unable to delete it.

Select a Search			Save a Search		
Saved Search		Default Search	Name	Global	
CompareCost	<input type="button" value="Delete"/>	<input type="button" value="Set"/>	CompareCost	<input type="checkbox"/>	<input type="button" value="Save"/>

Global Delete Not Available without Permissions

To clear the search criteria after it is defined, click the **Clear** button.

Table : All

(	Parametric Field	Operator	Parameter
+ -	PART_NUMBER	Contains	TMP

Include Additional Fields in Search Results

PCB Footprint + -

Schematic Part + -

Search **Clear**

Select a Search



Saved Search	Default Search
TMP Part w Symbol-Footprint	Set Clear

Save a Search

Name	Global
TMP Part w Symbol-Footprint	<input type="checkbox"/> Save

Clearing Search Criteria

4.5.10 Using Part Type Search

The Part Type tab within CIS DB Search enables users to find and view parts by Configured Views and Part Type. This method is similar to the CIS Explorer window in Capture CIS. Click the plus sign  to expand levels. Similarly, click the minus sign  to collapse levels.

Search **Part Type** History Search

- Capacitors
 - EMA
 - Aluminum
 - SMD
 - 7343-19
 - 7343-27
- Ceramic
- Tantalum

- Connectors
- Crystals and Oscillators
- Diodes
- ICs
- Inductors
- Misc
- Relays
- Resistors
- Switches
- Transformers
- Transistors

4 Results

PART_NUMBER	Part Type	Description	Value	PCB Footprint	Schematic Part	Num
EMA-00001636V22	EMA\Aluminum\SMD\7343-19	CAP, Aluminum, SMD, 82 uF, 20 %, 2.5 V, 7343-19	82 uF	CAPMP7343X200N	CAP_P	2
EMA-00001634V22	EMA\Aluminum\SMD\7343-19	CAP, Aluminum, SMD, 47 uF, 20 %, 6.3 V, 7343-19	47 uF	CAPMP7343X200N	CAP_P	2
EMA-00001628V22	EMA\Aluminum\SMD\7343-19	CAP, Aluminum, SMD, 33 uF, 20 %, 6.3 V, 7343-19	33 uF	CAPMP7343X200N	CAP_P	2
EMA-00001622V22	EMA\Aluminum\SMD\7343-19	CAP, Aluminum, SMD, 220 uF, 20 %, 2.0 V, 7343-19	220 uF	CAPMP7343X200N	CAP_P	2

Part Type Search

4.6 Distributor Search

The Distributor Search menu item enables users to directly search for parts from DigiKey, Newark, Future, Mouser, and Arrow. Knowing these parts are immediately available can significantly reduce lag times and produce shorter time-to-market.

You can use the Distributor Search menu item to do the following:

1. [Search for availability and cost of parts](#)
2. [Create a TMP part with the distributor part number](#)
3. [Update and existing part with the distributor part number](#)

4.6.1 Searching for a Distributor Part

After you open the **Distributor Search** tab, you can select distributor(s) that will be used to conduct the search. You can search for: DigiKey, Newark, Future, Mouser, or Arrow. (**Note:** If your country is set differently from the base product, the Newark distributor may appear as Premier or Farnell, depending on the country). The Search Type allows you to conduct a search that is based on a Keyword or Manufacturer Part Number. When you select Search Type, only Distributors that support the search type are enabled for selection.

Note: The Arrow and Future search only supports search strings that are entered for a manufacturer part number. The "Arrow" and "Future" selection check box is unavailable for a keyword search.

You may select additional Options to narrow your search results. Once all search parameters are specified, click the **Search** button. You may search in one or more distributor databases. When searching across multiple distributors, the results are limited to 25 records from each distributor.

Note: Different search algorithms used by each distributor site may result in different search results. Please keep this in mind when performing searches and viewing results, especially when searching across multiple distributors.

Component Information Portal	
Admin ▾	Components ▾
CIS DB Search	Distributor Search
Compliance	Temp. Parts
Distributor Search	
Distributors	<input type="checkbox"/> Arrow <input type="checkbox"/> DigiKey <input type="checkbox"/> Future <input type="checkbox"/> Mouser <input type="checkbox"/> Newark
Search Type	Keyword ▾
Search Text	<input type="text"/> <input type="button" value="Search"/>
Options	<input checked="" type="checkbox"/> In Stock <input checked="" type="checkbox"/> RoHS Compliant <input checked="" type="checkbox"/> Lead Free

Select Distributor(s)

4.6.1.1 By Manufacturer Part Number

You can search by Manufacturer Part Number by selecting the drop-down option from the Search Type list. You can search multiple distributors at the same time. Enter the Manufacturer Part Number and click the **Search** button to obtain results.

Search Multiple Distributors by Manufacturer Part Number

Note: The search algorithm for each distributor site is controlled by the distributor. Future may not return search results when you enter a string that contains a comma.

4.6.1.2 By Keyword

You may also perform a keyword search by distributor by selecting **Keyword** from the Search Type drop-list.

Keyword Search

To simultaneously search for parts from multiple distributors, type a keyword into the **Search Text** field and click the **Search** button. Search results display in the lower part of the page. The "Arrow" and "Future" selections check boxes are unavailable for keyword searches.

"In Stock", "RoHS Compliant" and "Lead Free" filter options are available when you select either DigiKey, Mouser, or Newark using Keyword Search.

Distributor Search

Distributors: Arrow DigiKey Future Mouser Newark

Search Type: Keyword

Search Text: 10uf 16V X5R Search

Options: In Stock RoHS Compliant Lead Free

Search Results Part Detail

1 - 150 of 150

Distributor	Distributor PN	Manufacturer	Manufacturer PN	Description
-------------	----------------	--------------	-----------------	-------------

Digi-Key Keyword Search

Distributor Search

Distributors: Arrow DigiKey Future Mouser Newark

Search Type: Keyword

Search Text: 10uf 16V X5R Search

Options: In Stock RoHS Compliant Lead Free

Search Results Part Detail

1 - 50 of 123

Distributor	Distributor PN	Manufacturer	Manufacturer PN	Description
-------------	----------------	--------------	-----------------	-------------

Mouser Keyword Search

Distributor Search

Distributors: Arrow DigiKey Future Mouser Newark

Search Type: Keyword

Search Text: 10uf 16V X5R Search

Options: In Stock RoHS Compliant Lead Free

Search Results Part Detail

1 - 50 of 61

Distributor	Distributor PN	Manufacturer	Manufacturer PN	Description
-------------	----------------	--------------	-----------------	-------------

Newark Keyword Search

4.6.1.3 Search Results and Part Detail

The results returned from a distributor search may be extensive since the search queries the distributor's database of parts to match the requested criteria. The fields returned in the search results are: Distributor (DigiKey, Newark, Future, Mouser, or Arrow), Distributor PN, Manufacturer, Manufacturer PN, Description, Category, Quantity On Hand, and (Unit) Price. To determine the complete price breakpoint of a part, you need to select the part and view its Part Detail page.

Search results may be re-ordered by clicking a column heading (Distributor, Distributor PN, etc.). The order of the displayed results can be re-sorted by the column selected. Re-selecting the same column reverses the order of displayed results.

Note: The search algorithm for each distributor site is controlled by the distributor. Consequently, each distributor search responds differently to the search string provided. The Manufacturer Name may be inconsistent across all distributors.


Distributor Search

Distributors: Arrow DigiKey Future Mouser Newark

Search Type: Keyword

Search Text: 10uf Search

Options: In Stock RoHS Compliant Lead Free



Search Results Part Detail

1 - 150 of 4991


Distributor	Distributor PN	Manufacturer	Manufacturer PN	Description	Category	Quantity On Hand	Price
Digi-Key	490-GRM155R60J106ME05DTR-ND	Murata Electronics	GRM155R60J106ME05D	CAP CER 10UF 6.3V X5R 0402		60000	USD 0.01038
Digi-Key	490-GRM155R60J106ME05DCT-ND	Murata Electronics	GRM155R60J106ME05D	CAP CER 10UF 6.3V X5R 0402		69774	USD 0.1
Digi-Key	490-GRM155R60J106ME05DDKR-ND	Murata Electronics	GRM155R60J106ME05D	CAP CER 10UF 6.3V X5R 0402		69774	USD 0.1
Digi-Key	1276-1096-2-ND	Samsung Electro-Mechanics	CL1A106K0QNNNE	CAP CER 10UF 16V X5R 0805		4385408	USD 0.01682
Digi-Key	1276-1096-1-ND	Samsung Electro-Mechanics	CL21A106K0QNNNE	CAP CER 10UF 16V X5R 0805		4385706	USD 0.1

Sample Distributor Search Results

Moving the mouse pointer over a part that is listed in the search results highlights the part. Highlight and click a part to show Distributor Part Data, Attributes and an image of the actual part (if available). Each distributor provides attribute data in its own format.

Part Data

Property	Value
Digikey PN	478-1653-2-ND
Description	CAP TANT 10UF 10% 6.3V 1206
Manufacturer Name	AVX Corporation
Manufacturer Part Number	TAJA106K006RNJ
Category	Capacitors
Quantity On Hand	96000
Primary Datasheet	http://datasheets.avx.com/TAJ.pdf
Standard Pricing	USD 0.08136 (2000-3999), 0.07684 (4000-9999), 0.07232 (10000-13999), 0.07006 (14000-49999), 0.06328 (50000-99999), 0.05958 (100000+)
RoHS Info	RoHS Compliant
Unit Price	0.08136



Attributes

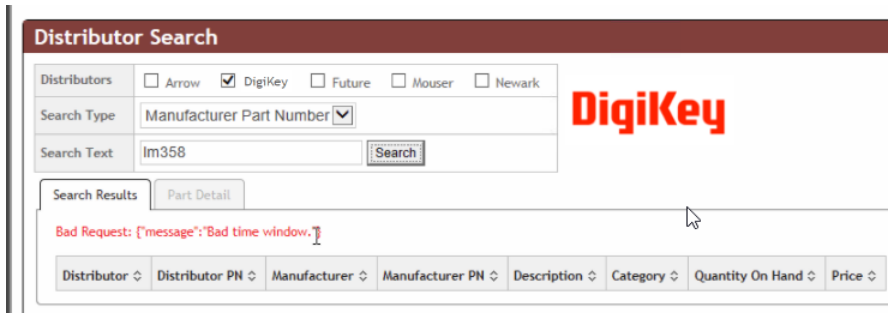
Property	Value
Capacitance	10uF

Sample Part Data and Attributes

4.6.1.4 Warnings and Errors

Changes to distributor APIs or part data may show warnings that result from distributor searches. Sample errors are shown in this section.

Bad Request: Bad time window



The screenshot shows the 'Distributor Search' form with the following details:

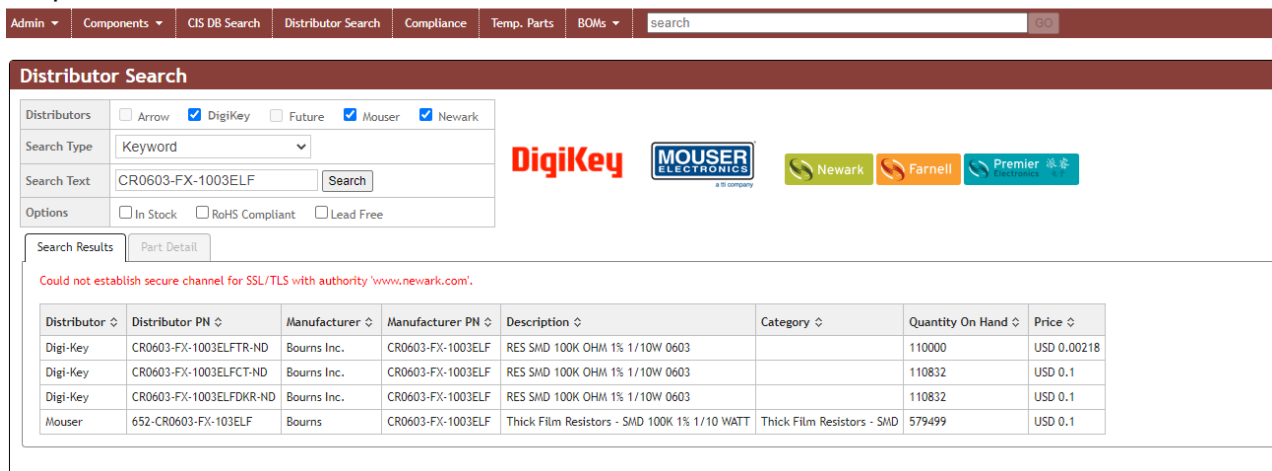
- Distributors:** Arrow, DigiKey, Future, Mouser, Newark
- Search Type:** Manufacturer Part Number
- Search Text:** lm358
- Search Results:** Bad Request: ["message": "Bad time window."]
- Table Headers:** Distributor, Distributor PN, Manufacturer, Manufacturer PN, Description, Category, Quantity On Hand, Price

Cause: When the CIP web application server time is more than 5 minutes off from the actual time for the time zone of the server, Digikey search will respond with the message of bad time window.

Solution: To fix the problem ensure that the time on the CIP web application server is set correctly. You may need to contact your IT administrator to fix get this resolved.

Could not establish secure channel for SSL/TLS with authority 'www.newark.com'

Component Information Portal



The screenshot shows the 'Distributor Search' form with the following details:

- Distributors:** Arrow, DigiKey, Future, Mouser, Newark
- Search Type:** Keyword
- Search Text:** CR0603-FX-1003ELF
- Options:** In Stock, RoHS Compliant, Lead Free
- Search Results:** Could not establish secure channel for SSL/TLS with authority 'www.newark.com'.
- Table:**

Distributor	Distributor PN	Manufacturer	Manufacturer PN	Description	Category	Quantity On Hand	Price
Digi-Key	CR0603-FX-1003ELFTR-ND	Bourns Inc.	CR0603-FX-1003ELF	RES SMD 100K OHM 1% 1/10W 0603		110000	USD 0.00218
Digi-Key	CR0603-FX-1003ELFCT-ND	Bourns Inc.	CR0603-FX-1003ELF	RES SMD 100K OHM 1% 1/10W 0603		110832	USD 0.1
Digi-Key	CR0603-FX-1003ELFDKR-ND	Bourns Inc.	CR0603-FX-1003ELF	RES SMD 100K OHM 1% 1/10W 0603		110832	USD 0.1
Mouser	652-CR0603-FX-103ELF	Bourns	CR0603-FX-1003ELF	Thick Film Resistors - SMD 100K 1% 1/10 WATT	Thick Film Resistors - SMD	579499	USD 0.1

Cause: The cipher suites used by the Newark API are unsupported by Windows Server 2012 R2/Windows 8.1. CIP web application server installed on one of these operating systems can no longer use Newark's distributor search.

Solution: Migrate CIP web application server to different Windows Server.

Server was unable to process request. ---> Error!!!

Component Information Portal

Admin ▾ Components ▾ CIS DB Search Distributor Search Compliance Temp. Parts BOMs ▾ search

Distributor Search

Distributors Arrow DigiKey Future Mouser Newark

Search Type: Keyword

Search Text: 10uf

Options: In Stock RoHS Compliant Lead Free

Search Results

Server was unable to process request. ---> Error!!!

Distributor	Distributor PN	Manufacturer	Manufacturer PN	Description	Category	Quantity On Hand	Price
-------------	----------------	--------------	-----------------	-------------	----------	------------------	-------

Cause: When search string is fewer characters than expected by the Mouser distributor or entered in a way that is not acceptable. Mouser server results an error.

Solution: To fix, change you search string.

4.6.2 Creating a New TMP Part and Distributor Part

The CIP Distributor Search is an efficient way to add valid, orderable parts to your database. You may add one distributor part from the distributor search page. To [add multiple distributor parts](#), however, you need to open the component page. When adding a part while using the Client plugin, you may preview and download ECAD Models from Ultra Librarian.

To create and add a TMP part to your database

1. Complete a [Distributor Search](#) and select the part you want to add to your database.

Distributor Search

Distributors Arrow DigiKey Future Mouser Newark

Search Type: Keyword

Search Text: SDR0403-330KL

Options: In Stock RoHS Compliant Lead Free

Search Results

1 - 3 of 3

Distributor	Distributor PN	Manufacturer	Manufacturer PN	Description	Category	Quantity On Hand	Price
Digi-Key	118-SDR0403-330KLTR-ND	Bourns Inc.	SDR0403-330KL	FIXED IND 33UH 640MA 540MOHM SMD		6000	USD 0.24725
Digi-Key	118-SDR0403-330KLCT-ND	Bourns Inc.	SDR0403-330KL	FIXED IND 33UH 640MA 540MOHM SMD		6787	USD 0.54
Digi-Key	118-SDR0403-330KLDKR-ND	Bourns Inc.	SDR0403-330KL	FIXED IND 33UH 640MA 540MOHM SMD		6787	USD 0.54

1

Double-click the desired row to select and open Part Data from search results

The Part Data information opens after you select a component for viewing.

2. When **Ultra Librarian download** is enabled and CIP is opened in Capture, you will need to log in before you can preview or download ECAD models. If you don't have an account, you can register by selecting the **Click**

[here](#) link. The **Ultra Librarian** information is not shown when CIP is open from a standard browser or when Ultra Librarian download is disabled.

Distributor Search

Distributors: Arrow DigiKey Future Mouser Newark

Search Type: Manufacturer Part Number

Search Text: SDR0403-330KL

Search Results | Part Detail

Component View: Select View

Add

Ultra Librarian

Username:

Password:

New User or Forgot Password? [click here](#)

Part Data

Property	Value
DigiKey PN	118-SDR0403-330KLCT-ND
Description	FIXED IND 33UH 640MA 540MOHM SMD
Manufacturer Name	Bourns Inc.
Manufacturer Part Number	SDR0403-330KL

- If you are logged in, availability of ECAD models from Ultra Librarian shows. When an exact match is available, the part number and **Preview** button shows. When an exact match is not available, a list of close match parts are shown. You may [review and select close match parts](#) to select a model to use with your TMP part.

Search Results | Part Detail

Component View: Select View

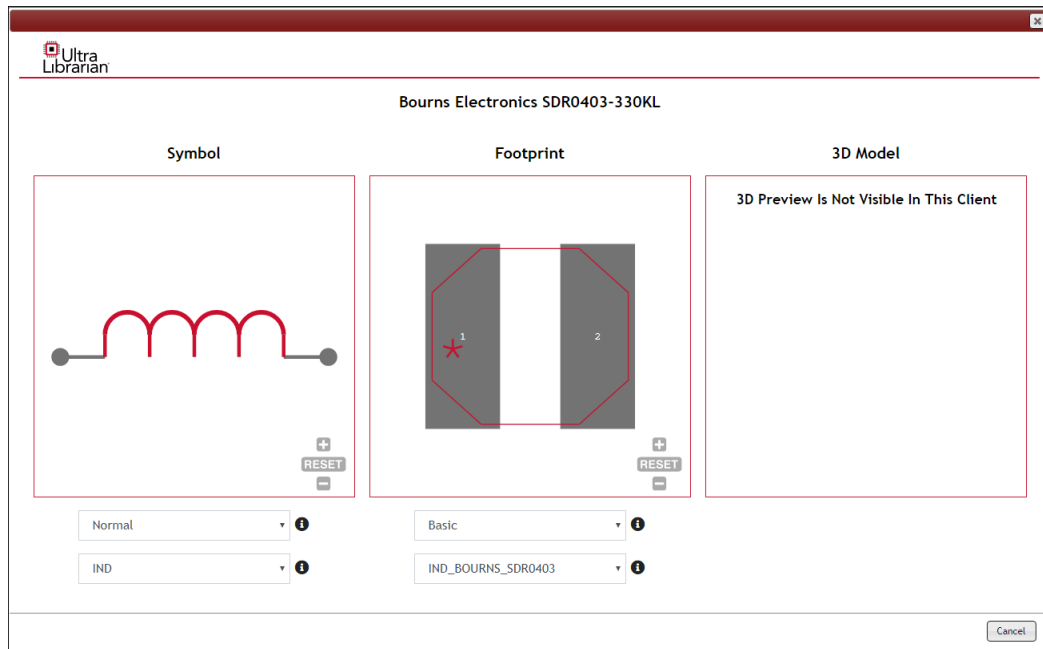
Add

Ultra Librarian CAD model available for **Bourns Electronics SDR0403-330KL**

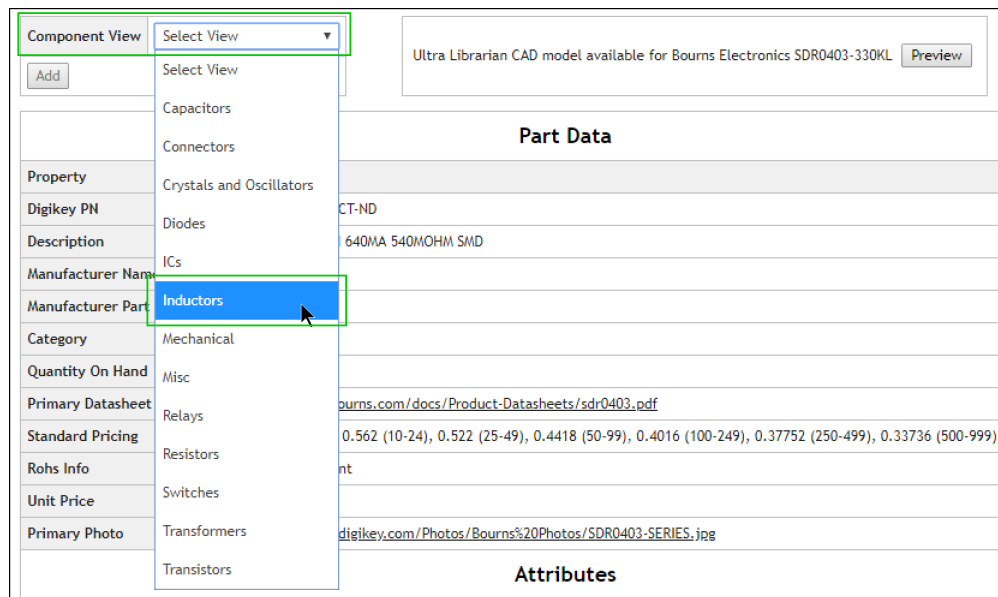
Part Data

Property	Value
Digikey PN	SDR0403-330KLCT-ND
Description	FIXED IND 33UH 640MA 540MOHM SMD
Manufacturer Name	Bourns Inc.
Manufacturer Part Number	SDR0403-330KL

- Click the **Preview** button to review the ECAD Models for the part identified. Click **Cancel** to close the preview.



- Choose an appropriate Component View to add the TMP part. The example that follows shows the selection of the Component View: Inductors.



- You have the option to create or update a TMP part. To add a TMP part, leave the value for the Action field shown in the previous image as **Create TMP Part**. This is the default action.
- If you have a Schematic Part symbol and PCB Footprint available, you may map to a Schematic Part and PCB Footprint before your TMP is created. The process for mapping a Schematic Part and PCB Footprint is the same.
 - Choose the **Current** radio option to select an existing Schematic Part from the pick list.

- Choose **Ultra Librarian** radio option to download and use the Schematic Symbol and/or PCB footprint corresponding to the selected part from Ultra Librarian. (This option is shown only when Download of Ultra Librarian models option is enabled and you are using the CIP client inside Capture.) You will need to specify a [local download location](#) if no [common directory](#) has been configured.
- Or choose the **New** radio option and enter a new Schematic Part name into the field.

The screenshot shows the 'Part Detail' dialog with the 'Schematic Part' dropdown menu open. The menu items are 'INDUCTORS\IND' and 'INDUCTORS\IND_FB'. The 'Ultra Librarian' radio button is selected. A green box highlights the dropdown menu, and a green arrow points from the 'Ultra Librarian' radio button to the dropdown.

Select an Existing Schematic Part

The screenshot shows the 'Part Detail' dialog with the 'Ultra Librarian' radio button selected. The 'Schematic Part' field is empty. A preview window on the right shows 'Ultra Librarian CAD model available for Bourns Electronics SDR0403-330KL' with a 'Preview' button.

Select Ultra Librarian to download Symbol and Footprint from Ultra Librarian

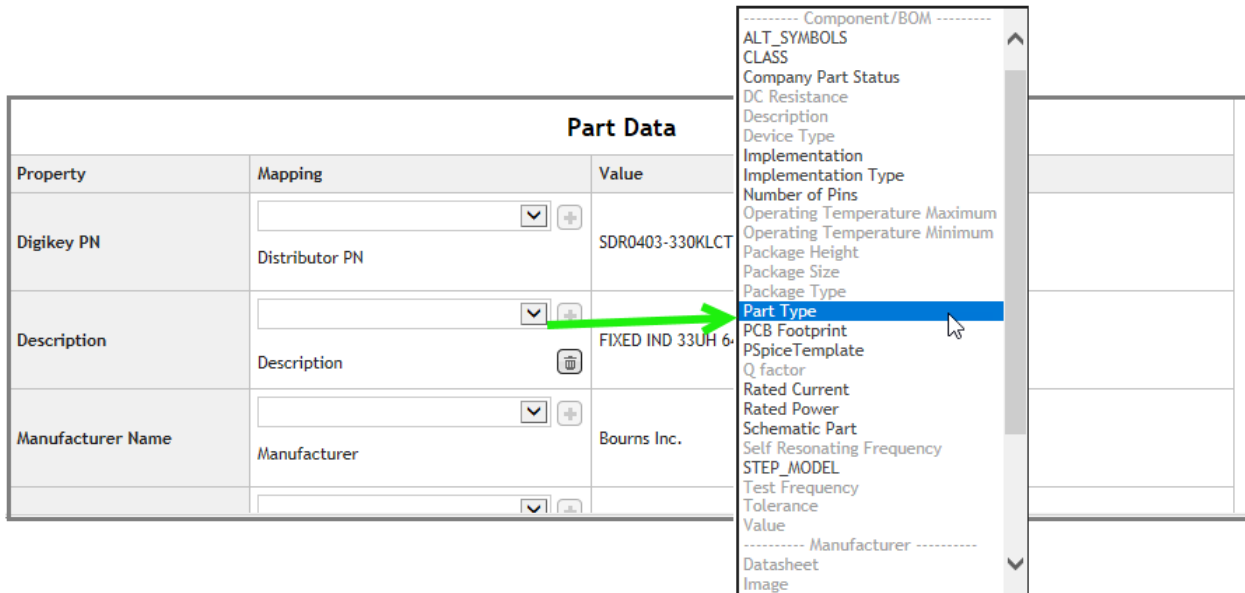
The screenshot shows the 'Part Detail' dialog with the 'New' radio button selected. The 'Schematic Part' field contains 'NEWSYMBOLNAME'. A green box highlights the 'New' radio button and the 'Schematic Part' field.

Or Enter New Schematic Part Name

If you want to change the property mapping from the suggested built in mapping, or if you want to map a Distributor property to more than one CIP property, you may change the mapping configuration before creating your TMP part.

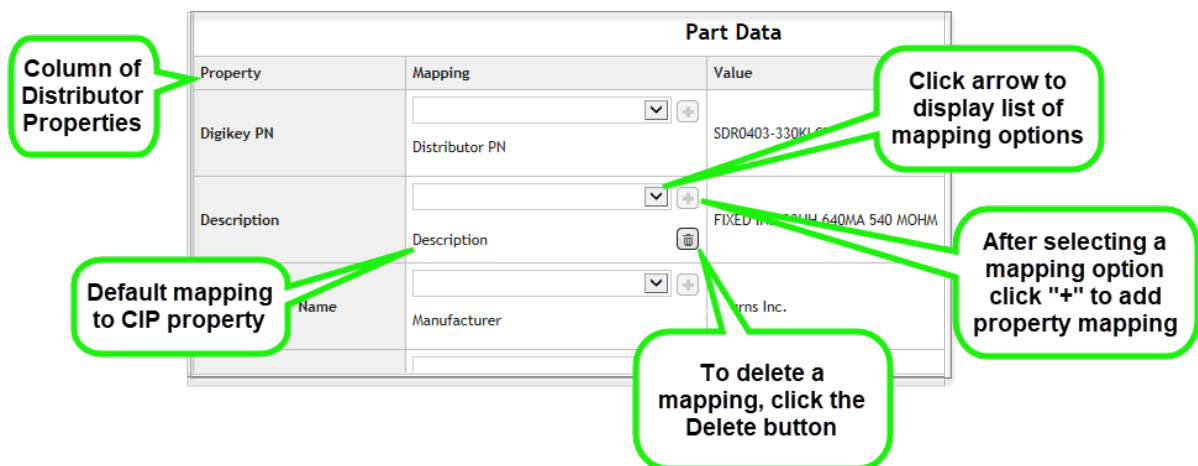
8. To map a distributor property, select a CIP field from one of the Property drop down lists in the corresponding mapping column.

The example below shows the distributor property "Description" being mapped to the CIP property, "Part Type" that is available from the drop-list menu.





Example of Mapping Distributor Property "Description" to "Part Type"

To map multiple CIP properties to a distributor property, you can select the additional property from the Property drop list and click the "+" button. Your selection is then listed below the property selection field. To delete a property mapping, click the Delete button that is adjacent to that property.



Note: You can only map to CIP fields that your Admin has granted you permission to edit. For example, if your Admin has not granted you permission to edit the Description field, you will not find the Description field.

5. After you complete your mapping, click the **Add** button  to generate the new TMP Part. When [adding a manufacturer part that matches a part](#) already in the CIP database, a warning will appear with additional options. If the creation with the selected manufacturer part is in error, click Cancel. An error may display in System Capture when attempting to download models from Ultra Librarian.

Note: The Add button  is only visible after your Admin grants you the "Add TMP Parts" permission.

Once the new part is created, the TMP-XX part number is added in the PART_NUMBER field, along with the other parametric data for the new part.

During the transfer of distributor data to CIP part data, CIP converts or removes the following symbols/characters from distributor values before transferring data to the CIP database.

- μ - This Greek letter is converted to "u"
- Ω - This Greek letter is converted to "Ohm"
- \pm - This character is removed
- $^\circ$ - This character is removed
- \sim - This character is removed
- Spaces in the value and tolerance fields for Capacitors, Resistors, and Inductors are automatically removed from the distributor property values during transfer to the CIP database.

Inductors TMP-10

Part Information Mechanical Parts History

PART_NUMBER: TMP-10

Description: BOURNS - SDR0403-330KL - INDUCTOR, UN-SHIELDED, 33UH, 990MA, SMD

Part Type: Unassigned Part Type

Value: 33uH

PCB Footprint: UNASSIGNED

Schematic Part: NEWPARTNAME

Operating Temperature Maximum:

Operating Temperature Minimum:

Package Size: 4.5mm x 4mm x 2 mm

BOURNS SDR0403-330KL Add Manufacturer Part

Manufacturer Part Data History

Check Availability

Manufacturer Data

Manufacturer	BOURNS	Manufacturer PN	SDR0403-330KL
Manufacturer PN Status		Datasheet	http://www.farnell.com/datasheets/1948970.pdf
RoHS Compliant	YES	Image	http://www.newark.com/productimages/nio/standard/3761858.jpg
OnlineSupplierDatasheetURL		RadHard	
DoseLevel		TaxonomyPath	
FCFN		UM	

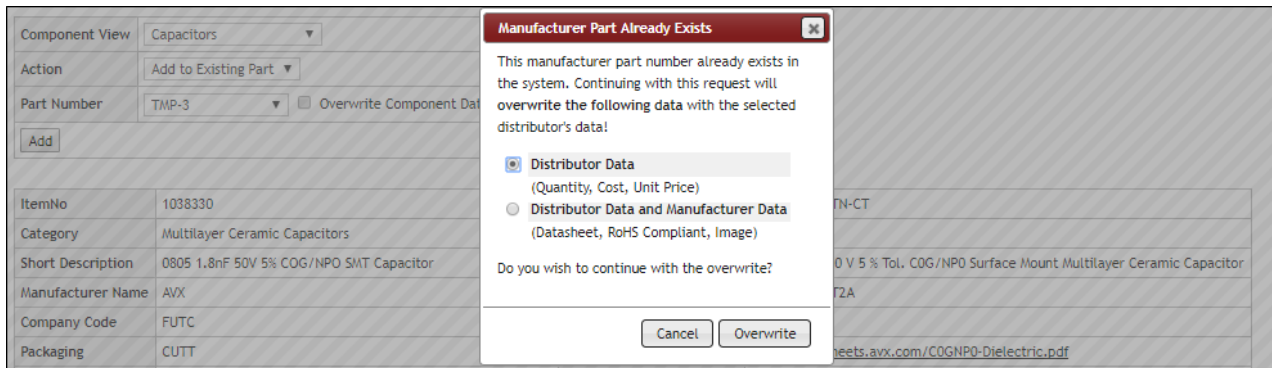
Distributor Fields

Distributor	Distributor PN	Quantity	Cost	Unit Price	Data Last Updated
Newark	04P1898		5 0.47 (1-9), 0.32 (10-24), 0.31 (25-49), 0.301 (50-99), 0.291 (100-249), 0.273 (250-499), 0.244 (500-999), 0.198 (1000-1000000000)	0.47	Jul 26 2018 11:54AM

TMP Part Created

Manufacturer Part Already Exists

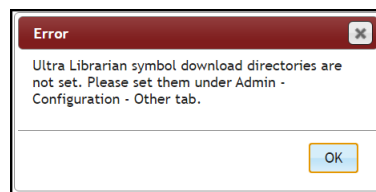
When you add an existing manufacturer part, whether to a new or existing part, the prompt shown in the image below appears. This prompt allows you to Update/Overwrite the Distributor Data, Update/Overwrite Distributor Data and Common Manufacturer Data, or Cancel the operation. The prompt identifies which fields will be updated when you click the Overwrite button. If the **Manufacturer Part Already Exists** dialog box opens, select the radio option that indicates the fields you want to overwrite and then click the Overwrite button to complete your action. If you selected a duplicate manufacturer part by accident, select **Cancel**.



Update/Overwrite Prompt - Distributor Data

TMP Part Creation Error in System Capture

When [Ultra Librarian download is enabled](#) but the common download location is not fully configured, an error generates during creation a TMP part with the Ultra Librarian option.



4.6.3 Adding a Distributor Part to an Existing TMP or Formal Part

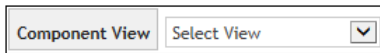
In addition to having the ability to create new TMP parts, the CIP Distributor Search also allows you to add distributor and manufacturer data to an existing TMP or formal part. You also have the option to update part data when adding to an existing part. Updating part data overwrites your changes as well. To [add multiple distributor parts](#), you will need to open the component page.

The **Add to Existing Part** feature allows (specified) users to:

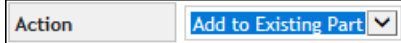
- Add New Manufacturer Parts, including Distributor Data (Dist. PN, Cost, Quantity), to Existing TMP or Formal Parts
- Update/Overwrite Distributor Data (Dist. PN, Cost, Quantity) of a Manufacturer Part that is associated with an Existing TMP or Formal Part
- Update/Overwrite Distributor Data (Dist. PN, Cost, Quantity) and Common Manufacturer Data (Datasheet, RoHS Compliant, Image) of a Manufacturer Part that is associated with an Existing TMP or Formal Part
- Update/Overwrite Part Data

To add or update distributor and manufacturer data of an existing TMP or formal part

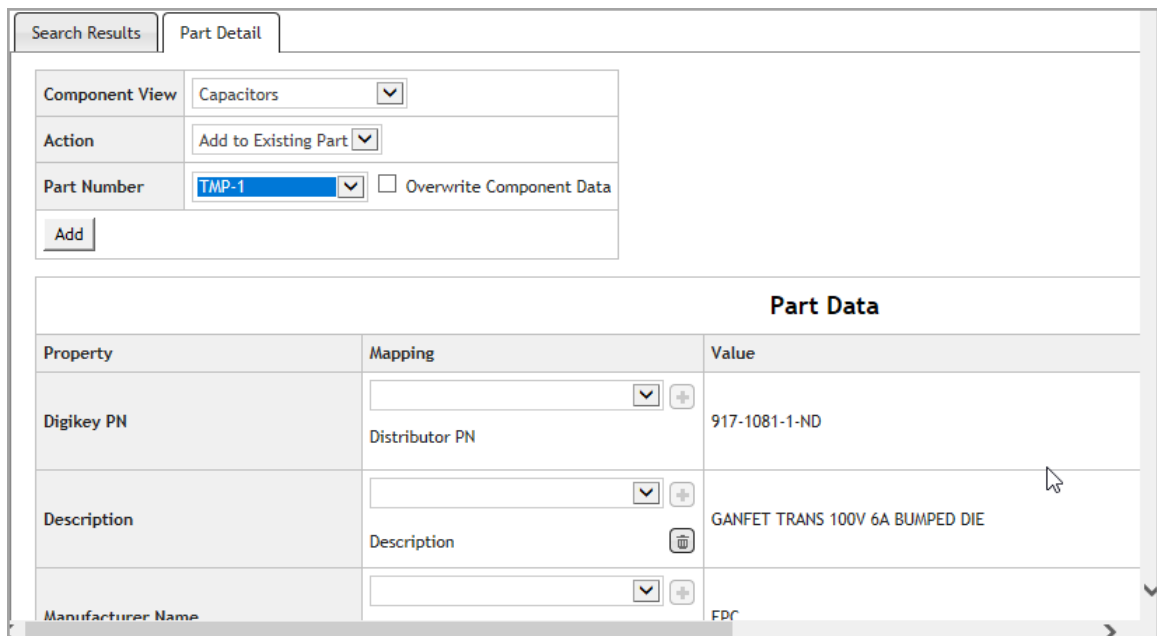
1. Complete a [Distributor Search](#). Select the part you want to add to your database and select the Component View for the part. The display updates showing options and a mapping column.



2. Select the Action, **Add to Existing Part**, from the drop menu.



Mapping of Schematic Part and PCB Footprint options are unavailable for **Add to Existing Part**. See example in figure below.



Part Data		
Property	Mapping	Value
Digikey PN	<input type="text"/> <input type="button" value="+"/>	917-1081-1-ND
Description	<input type="text"/> <input type="button" value="+"/> <input type="button" value="🗑️"/>	GANFET TRANS 100V 6A BUMPED DIE
Manufacturer Name	<input type="text"/> <input type="button" value="+"/>	FPC

Select a Component View

3. Select a Part Number of an existing TMP or formal part from the drop list. The part number you select will be used to merge your selection with the part you selected from the search results. If you do have permission to update formal parts, the list of part number for update includes only TMP parts.
4. You have the option to overwrite existing component data. If you want to overwrite component data, you may [update the distributor property mapping](#) before adding your changes. To update existing component data, place a check in the checkbox for **Overwrite Component Data**. If you do not want to change the component data, leave the checkbox blank.
5. Click the **Add** button. When adding a manufacturer part that matches a part already in the CIP database, a warning will appear with additionally options. Review options for [adding a manufacturer part that already exists](#) to complete your action.

Note: The **Add** button is only visible to users who are granted permission to “Add TMP Parts”.

- After completion, the part information appears with your updates.

4.7 Ultra Librarian ECAD Model Download

ECAD Models may be downloaded from Ultra Librarian when enabled in CIP Admin. This setting is enabled by default and may be [disabled by an Admin](#).

ECAD model download locations may be configured for [a common directory](#). When no common directory is configured, each user may specify [local directories](#) when the models are downloaded.

Models may be downloaded when creating a TMP part from [Distributor Search](#) or from viewing a component. When an exact match is not found, close matches will be proposed for your review. Only [the selected model](#) will be downloaded.

You must have a valid Ultra Librarian account and be logged to preview, download or request models. You may [enter your Ultra Librarian username](#) by clicking the **[Manage Account]** link at the upper right hand corner of the CIP page.

Welcome Eng1 [\[Log Off\]](#) [\[Manage Account\]](#) [\[Help\]](#)

Selecting ECAD Models for Close Match Parts

- While selecting a part in [Distributor Search to create as a TMP part](#), you may see that an exact match of the your part number was not found. However, several close match parts were found that have ECAD models from Ultra Librarian.


Component View Select View ▾

Add

An Exact MPN match was not found, the closest matches can be found below. Preview and Select a part to enable download.

Analog Devices / Maxim Integrated


MAX25520ATEB/V+



Preview

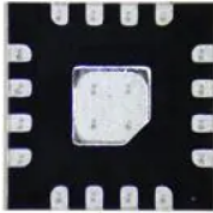
Analog Devices / Maxim Integrated

MAX25520ATEB/V+T

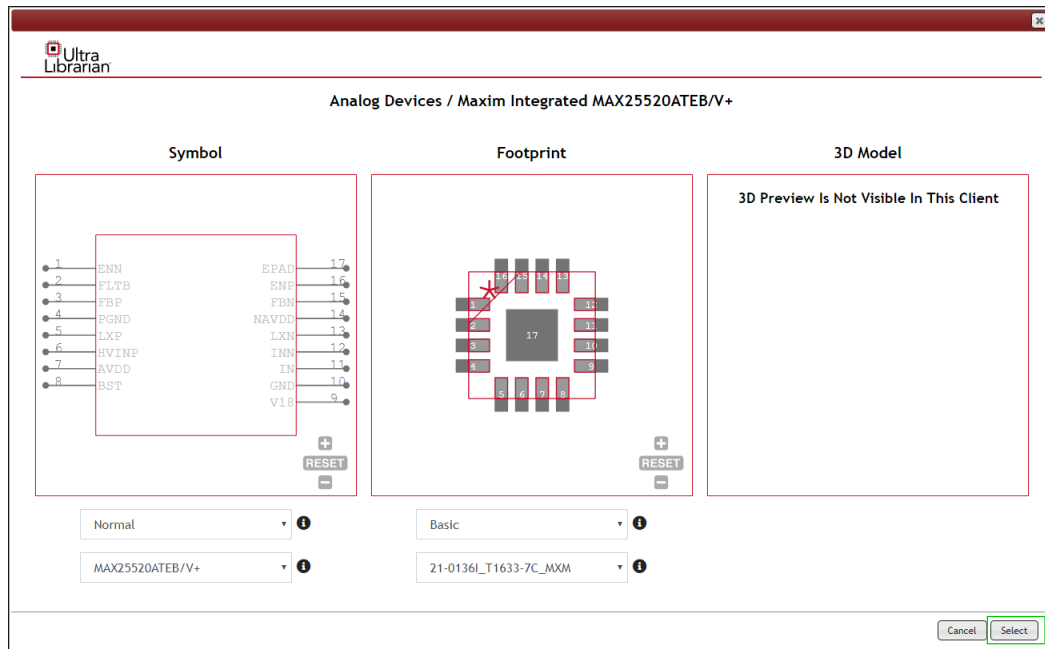


Preview

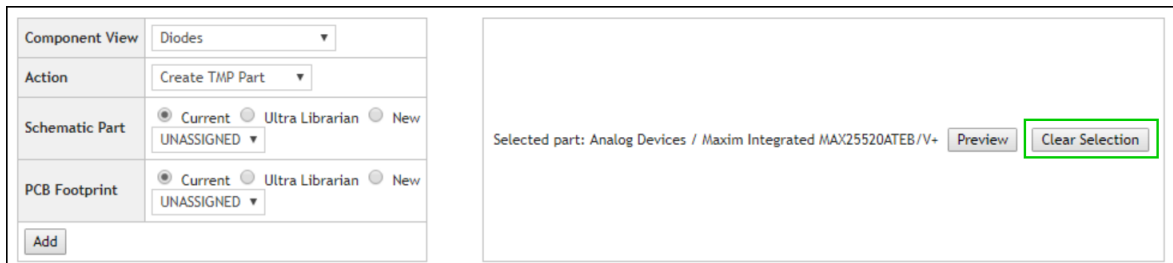
Part Data	
Property	Value
Mouser Part Number	700-MAX25520ATEC/V+
Category	LCD Drivers
Manufacturer Name	Maxim Integrated
Manufacturer Part Number	MAX25520ATEC/V+
Description	LCD Drivers Automotive 2-Ch TFT-LCD Power Supply Automotive 2-Ch TFT-LCD PowerSupply



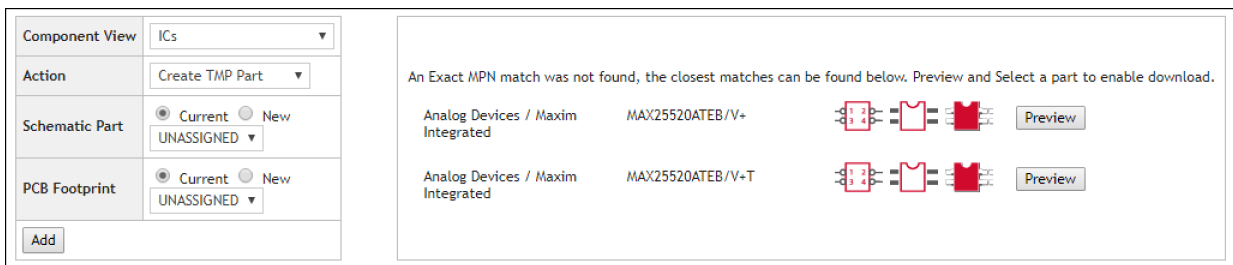
- You should review models for each part to determine if any of the ECAD models for the close match part can be used. Select the **Preview** button for each. If you see that the model can be used, click the **Select** button.



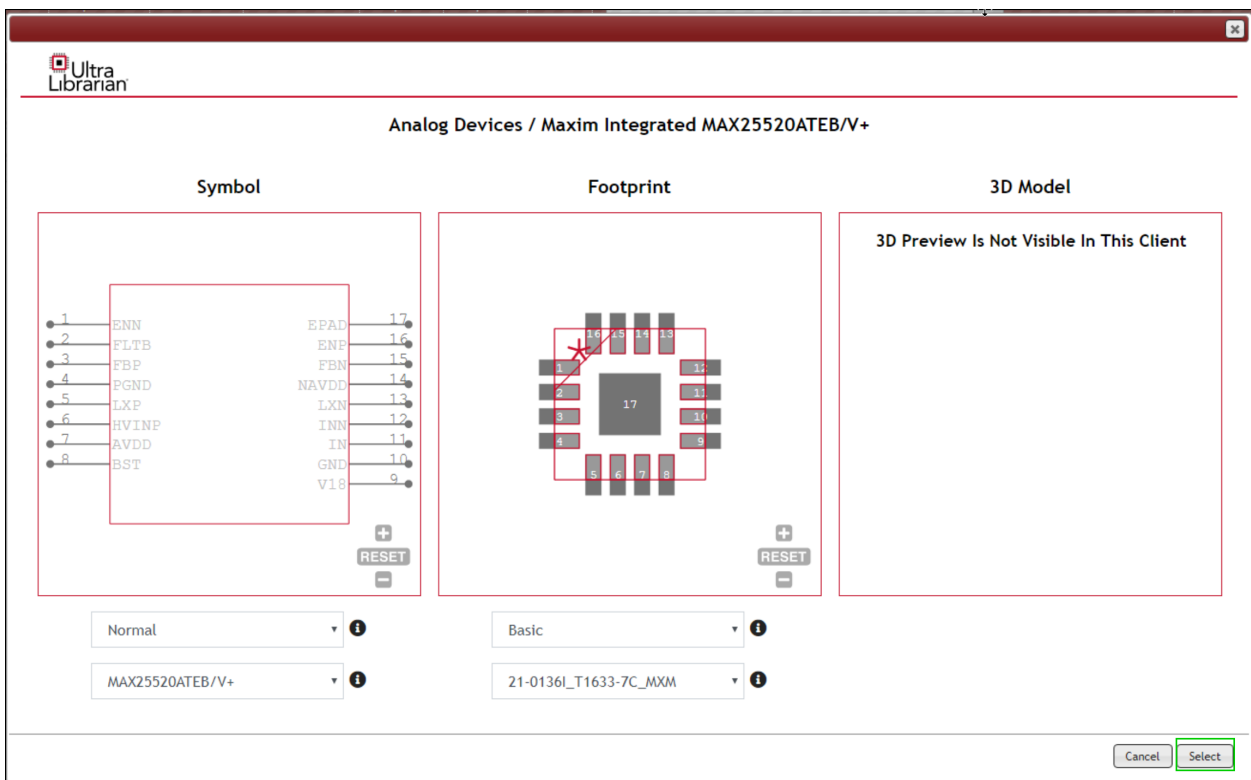
- The selected model will be downloaded when you create your TMP part. To select a different model, select the **Clear Selection** button



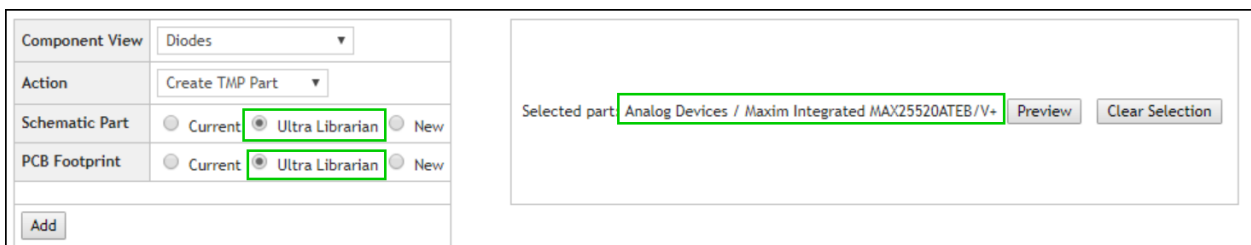
- All close match parts show again after you clear selection. No models can be downloaded when no selection are made.



- Click **Preview** and click **Select** to select the part you want to download. Click **Cancel** to preview and select a different part.



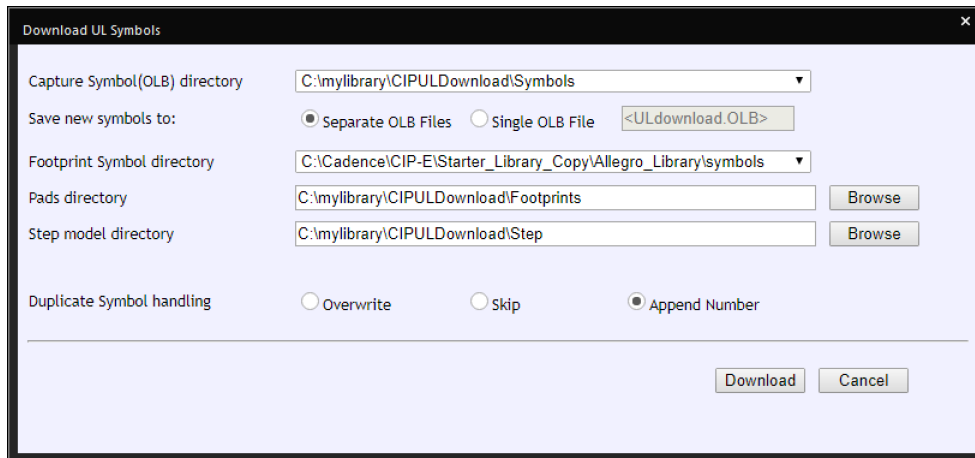
6. After you select a part and select the Ultra Librarian option for Schematic Part and PCB Footprint, click **Add** to add the TMP part and download the model for the selected part.



7. If [common libraries](#) are configured in CIP, the models will be downloaded automatically and the Schematic Part and PCB Footprint will show in the created TMP part. Additionally, the directory for symbol and footprint in the common library configuration, if not already in your Capture.ini, will be inserted into the Capture.ini file to enable preview of the downloaded part. If common libraries are not configured, you will need to [select local directories](#) for download.

Selecting Local Directories

1. After selecting [Add with the Ultra Librarian option selected](#), and no common libraries are configured, a dialog will appear with options for download. This shows each time you download models.



2. Enter the directory paths for each type of ECAD models that will be downloaded. The list in the drop-down list for *Capture Symbol(OLB) directory* and *Footprint Symbol directory* are directories from your Capture.ini file.
4. Select the radio button for **Single OLB File** if you want all symbol to go into the same OLB file. You required to enter the OLB file name with this selection.
5. Configure options for the handling of models that have the same name. Symbols are generally named with the Manufacturer Part Number. When a part is downloaded from 2 different manufacturers, the symbol name may be the same. When you download models that have the same part number or downloaded footprint, padstack or step files name are the same, the configured rule will be applied.
 - a. Overwrite - Schematic symbol names, footprint, pad or step filenames found in the configured location will be overwritten with the same name.
 - b. Skip - Schematic symbol names, footprint, pad or step filenames found in the configured location will be preserved.
 - c. Append Number - Schematic symbol names, footprint, pad or step filenames found in the configured location will be saved to a new name with *_1*, *_2*, etc appended.
6. Click **Download** to complete your directory options and start the download process.
7. The part is updated with the model names.

4.8 Temp. Parts

The Temp. Parts page helps you manage temporary parts (TMP-XX parts). Select the Temp. Parts menu to open all the temporary parts created and not processed yet. Users can optionally display processed Temp Parts as well. (Refer to [Including Assigned Parts](#)).

Creating and Viewing Temp Parts

Temp Parts can be created using several methods.

- Using the [Distributor Search](#) feature as described in the previous section.

- Using the [New > Add as TMP](#) feature to create a new Temp Part.
- Using the [Copy > Copy as TMP](#) feature to create a new Temp Part from an existing Formal or Temp Part.
- Deriving a database part in Capture CIS, from the Schematic Design or CIS Explorer window. Refer to the OrCAD Capture CIS User Guide for additional information.

Regardless of the creation method used, the Temp Part created is automatically assigned the next available temporary part number (in the form of TMP-XX). This number will be reflected on the Temp. Parts list. Additionally, CIS users are able to view and place the Temp Parts on their schematic designs. Once they are converted to formal parts, CIS users can update their schematics using the Part Manager.

Note: Preview and place buttons are not available in Temp Parts page when CIP is opened in System Capture.

	Component View	Original TMP Number	Creation Time	Username
Place	Capacitors	TMP-5	July 11, 2018, 10:12:10	Admin
Place	Capacitors	TMP-4	July 10, 2018, 16:38:06	Admin
Place	Capacitors	TMP-3	July 10, 2018, 15:28:42	Admin
Place	Capacitors	TMP-2	July 10, 2018, 15:19:04	Admin
Place	Capacitors	TMP-1	July 05, 2018, 15:36:17	Admin

Temp. Parts List

CIP allows users to display additional parametric fields in the Temp. Parts list. Display fields are stored on a per-user basis, since different users may wish to see different fields in their Temp. Part list.

To customize the user display of parametric fields in the Temp. Part list

1. Open the **Temp. Parts > Configure Display** tab.
2. Click a parametric field(s) listed in the left column to add it to the display fields on the right. Fields listed in the right column will be included in the Temp. Parts View.
3. Click the **Trash** button to the right of a fields in the right column to remove it from the list of included display fields.

4. Re-order fields, if desired, by clicking and dragging any item up or down the list.
5. Click **Save** and the Temp. Parts list updates the field list and associated data.

Temp. Parts - Configure Display - Add PCB Footprint, Schematic Part, Value, and Tolerance

	Component View	Original TMP Number	Creation Time	Username	PCB Footprint	Schematic Part	Tolerance	Value
Place [A]	Diodes	<u>TMP-6</u>	July 11, 2018, 15:00:51	Admin	UNASSIGNED	CAPACITORS		
Place [A]	Capacitors	<u>TMP-5</u>	July 11, 2018, 10:12:10	Admin	CAPC1608X87N	UNASSIGNED	10%	1800pF
Place [A]	Capacitors	<u>TMP-4</u>	July 10, 2018, 16:38:06	Librarian	CAPC1608X87I	UNASSIGNED		
Place [A]	Capacitors	<u>TMP-3</u>	July 10, 2018, 15:28:42	Admin	UNASSIGNED	UNASSIGNED		
Place [A]	Resistors	<u>TMP-2</u>	July 10, 2018, 15:19:04	Admin	UNASSIGNED	UNASSIGNED	5%	1k

Temp Parts List – Additional Fields

Assigning a Temp Part to an Existing Part


If a Temp Part was generated in error and you find that it is a duplicate of an existing part, the Temp Part can be assigned to the existing part by selecting the part to be assigned and clicking on the Assign to Part button. The Temp Part information will be removed and only the existing part information will be retained.

Capacitors		TMP-27	
Part Information | Mechanical Parts | History			
PART_NUMBER TMP-27			
Description	CAP, Aluminum, SMD, 150 uF, 20 %, 4.0 V, 7343-27	Part Type	EMA\Aluminum\SMD\7343-27
PCB Footprint	CAPMP7343X280N	Value	150 uF
Number of Pins	2	Schematic Part	CAPACITORS\CAP_P
Operating Temperature Minimum	-55 C	Operating Temperature Maximum	105 C
Package Height	2.80 mm	Package Size	7343-27
Company Part Status		Package Type	SMD
Equivalent Series Resistance		Dielectric Type	Aluminum Electrolytic
Tolerance	20 %	Temperature Coefficient	
Implementation		Rated Voltage	4.0 V
PSpiceTemplate	C^@REFDES %1 %2 C^@REFDES 150uF \n.model C^@REFDES CAP C=1 DEV=0.2	Implementation Type	<none>
UserField14		Device Type	
ALT_SYMBOLS		CLASS	DISCRETE

This is a temporary part. To assign this part to an existing part, select the existing part in the drop down list and click the Assign to Part button. EMA-00000124V22



Assign Temp. Part to an Existing Part

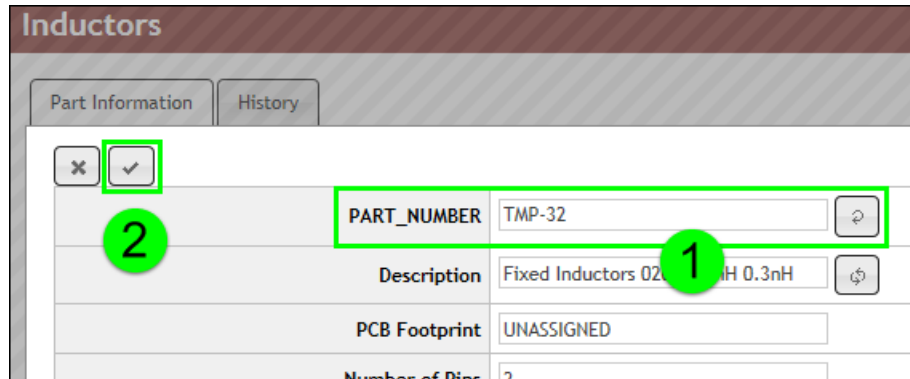
Changing a Temp Part to a Formal Part

For Temp Parts that are valid and should be added to the database formally, the Temp Part number will need to be changed. Changing a Temp Part number to a formal part number can be done by selecting the Edit button  inside the Part Information page. Part updates are reflected in both CIP and CIS, as they share a common parts database.

Inductors	
Part Information | Mechanical Parts | History	
PART_NUMBER TMP-32	
Description	Fixed Inductors 0201 1.8nH 0.3nH
PCB Footprint	UNASSIGNED
Number of Pins	2

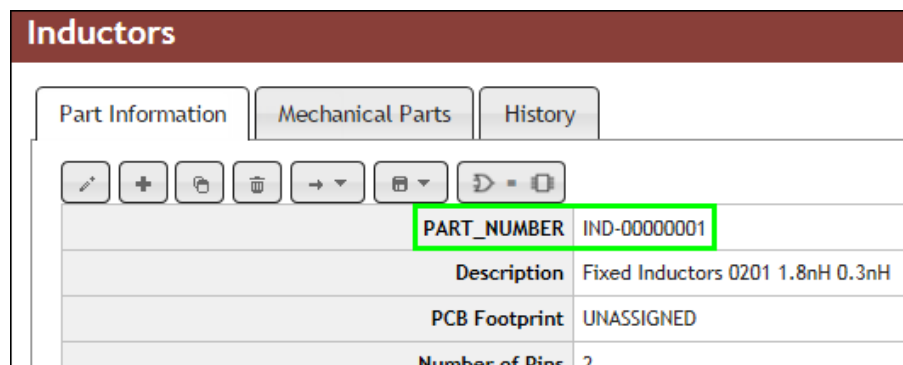
Edit Temp Part

Manually input the desired PART_NUMBER or click the auto-generate button  to pull the next available number for the current part's View (Inductors in this case). Update any additional fields, if desired. Click the Save button  to save the change(s). The TMP-XX part is now a formal part.



The screenshot shows the 'Inductors' form with the 'Part Information' tab selected. The 'PART_NUMBER' field contains 'TMP-32' and is highlighted with a green box and a red circle labeled '1'. The 'Description' field contains 'Fixed Inductors 0201 1.8nH 0.3nH' and is highlighted with a green box and a red circle labeled '2'. The 'PCB Footprint' field contains 'UNASSIGNED'. The 'Number of Pins' field contains '2'. A green checkmark icon is visible in the top left corner of the form.

Manually Input or Auto-Generate Formal PN, then Save



The screenshot shows the 'Inductors' form with the 'Mechanical Parts' tab selected. The 'PART_NUMBER' field contains 'IND-00000001' and is highlighted with a green box. The 'Description' field contains 'Fixed Inductors 0201 1.8nH 0.3nH'. The 'PCB Footprint' field contains 'UNASSIGNED'. The 'Number of Pins' field contains '2'. A toolbar with various icons is visible above the form.

Formal Part Number

Including Assigned Parts

Converted Temp Parts may not be shown in the Temp Parts list if you aren't displaying Assigned Parts. To view Assigned Parts, click the Include Assigned Parts checkbox. This option allows users to view converted Temp Parts that are now Formal Parts. When a Part Number is assigned to a TMP part, a change to the Part Number of the Original TMP Number is also updated.

***Note:** This setting is stored on a per-user basis.

Temporary Parts

Parts
Configure Display

Include Assigned Parts

Component View ▲	Original TMP Number ▲	Creation Time ▼	Username ◇	PCB Foot ◇
Capacitors	TMP-42	May 29, 2014, 11:03:11	Admin	CAPC16
Transistors	TMP-41	May 29, 2014, 11:02:50	Admin	SOT95P
Transistors	TMP-40	May 28, 2014, 14:15:08	Librarian	SOT95P
Transistors	TMP-39	May 28, 2014, 11:42:49	Admin	SOT95P
Switches	TMP-38	May 28, 2014, 11:06:05	Librarian	
Resistors	TMP-37	May 28, 2014, 10:01:31	Librarian	UNASSI
Misc	TMP-36	May 22, 2014, 17:02:27	EE	
Capacitors	TMP-35	May 22, 2014, 16:28:46	EE	UNASSI
Misc	TMP-34	May 22, 2014, 16:14:44	EE	
Inductors	TMP-33	May 22, 2014, 15:14:17	EE	UNASSI
Diodes	TMP-31	May 22, 2014, 13:03:18	Admin	UNASSI
Diodes	TMP-30	May 22, 2014, 11:53:44	Admin	UNASSI
Connectors	TMP-29	May 22, 2014, 11:17:37	Librarian	SAMTEC
Capacitors	TMP-28	May 22, 2014, 10:19:13	Admin	UNASSI

Unchecked Include Assigned Parts - IND-0000001 (Formerly TMP-32) Not Shown

Temporary Parts					
Parts		Configure Display			
<input checked="" type="checkbox"/> Include Assigned Parts					
Component View	Original TMP Number	Assigned PART_NUMBER	Creation Time	Username	PCB Fo
Capacitors	TMP-42		May 29, 2014, 11:03:11	Admin	CAPC1
Transistors	TMP-41		May 29, 2014, 11:02:50	Admin	SOT95
Transistors	TMP-40		May 28, 2014, 14:15:08	Librarian	SOT95
Transistors	TMP-39		May 28, 2014, 11:42:49	Admin	SOT95
Switches	TMP-38		May 28, 2014, 11:06:05	Librarian	
Resistors	TMP-37		May 28, 2014, 10:01:31	Librarian	UNASS
Misc	TMP-36		May 22, 2014, 17:02:27	EE	
Capacitors	TMP-35		May 22, 2014, 16:28:46	EE	UNASS
Misc	TMP-34		May 22, 2014, 16:14:44	EE	
Inductors	TMP-33		May 22, 2014, 15:14:17	EE	UNASS
Inductors	TMP-32	IND-00000001	May 22, 2014, 14:04:39	Admin	UNASS
Diodes	TMP-31		May 22, 2014, 13:03:18	Admin	UNASS
Diodes	TMP-30		May 22, 2014, 11:53:44	Admin	UNASS
Connectors	TMP-29		May 22, 2014, 11:17:37	Librarian	SAMTE
Capacitors	TMP-28		May 22, 2014, 10:19:13	Admin	UNASS

Checked Include Assigned Parts - IND-00000001 (Formerly TMP-32) Shown

4.9 Compliance

Compliance Information Powered by Silicon Expert provides up-to-date compliance information for parts. The information provided includes such information as inventory risk, life cycle risk, and conflict mineral status. To access Compliance, click **Compliance** from the CIP menu bar.



Access to Compliance Information Powered by Silicon Expert

You will be able to do the following from the Compliance page:

- [Enable Compliance Module](#) by loading Compliance License and Silicon Expert API credentials.

Note: This is required before you can use the Compliance module features.

- [Search](#) Silicon Expert database of parts to add CIP TMP parts or update existing CIP parts based on your search.
- [Sync](#) compliance data (on-demand or scheduled sync) for existing Silicon Expert parts in CIP.
- View [compliance summary](#) of parts in CIP.

4.9.1 Enable Compliance Module

A **Compliance Module License** and **Silicon Expert API Account** are required to use the Compliance features in CIP. If the following SiliconExpert landing page appears and you do not already have the aforementioned license or account, click **Learn More** to learn more about Compliance Information Powered by Silicon Expert, or click **Start Your Free Trial** to request a Compliance Module license and Silicon Expert evaluation account.

Note: If the links do not appear, be sure that you are connected to the internet and are not blocking any required pages. Refer to the CIP Install Guide for more information regarding white-listing URLs for the CIP web application.

SiliconExpert

Make Better Part Decisions Faster

Reduce costs and prevent late stage re-spins by providing engineering the data they need to make intelligent part selection decisions up front, when the cost of change is the lowest. Powered by SiliconExpert®, the leader in supply chain data intelligence, the EMA CIP compliance module add-on provides complete up-to-date information on parts from over 15,000 suppliers.

[Learn More](#)

Complete Supply Chain Data for Millions of Devices

- Lifecycle and risk analysis
- RoHS compliance
- Conflict minerals data
- Distributor data
- Detailed manufacturing & packaging data

FREE Trial

Request access today and see how the CIP Compliance Module can empower you with the data you need to make better part decisions.

[Start Your Free Trial](#)


Already use SiliconExpert?

Contact us to see how you can integrate this data directly into OrCAD to eliminate errors, reduce costs, and cut late stage re-spins due to part sourcing issues.

[Contact Us](#)

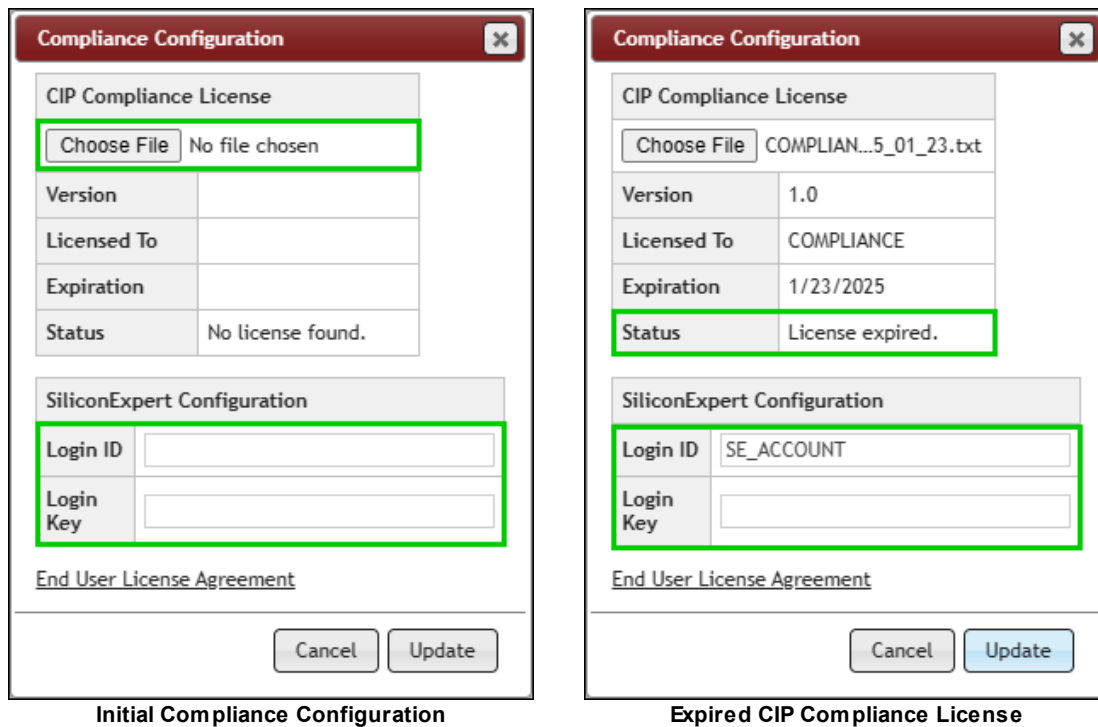
Powered by
SILICONEXPERT
TECHNOLOGIES

Learn More or Start Free Trial for a Silicon Expert Account

Once you have a **Compliance Module License** and **Silicon Expert API Account**, you can click the Configuration  button located in the upper-right corner of the Compliance page and update your info in the Compliance Configuration window.

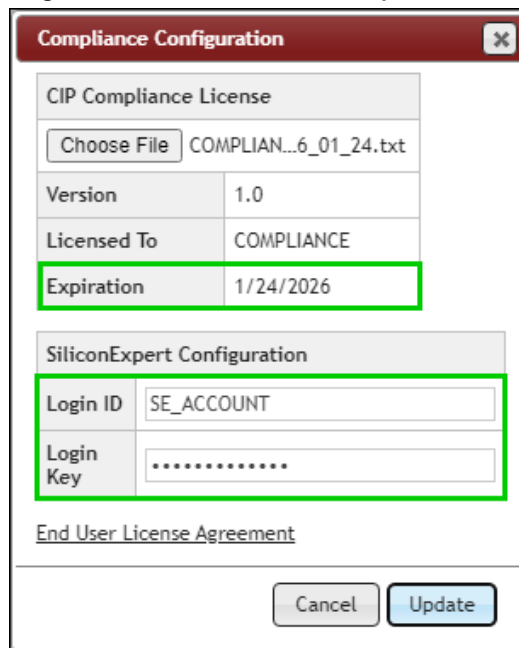
1. Click the **Choose File** button. Navigate to your CIP Compliance License .TXT file that was provided to you. Select the license file, then click **Open**. The license fields (**Version, Licensed To, Expiration, Status/Expiration**) will be updated.
2. Enter your Silicon Expert API account credentials. Optionally, click the **End User License Agreement** link to view the Silicon Expert API usage license agreement.
3. Click **Update** to verify your Compliance License and Silicon Expert credentials.

- a. If your **CIP Compliance License** is invalid or has expired, the **Status** will indicate such and you'll need to select a valid license. You'll also need to re-enter your Silicon Expert API account credentials if they were not already saved.
- b. If your **Silicon Expert API account** is invalid or has expired, the SiliconExpert page will remain on the initial landing page, regardless whether your CIP Compliance License is valid or not.




Initial Compliance Configuration

Expired CIP Compliance License

Valid Compliance License, Entered SE
Credentials

4. After verifying your Compliance License, the Compliance Configuration window will close.
 - a. If your **Silicon Expert API account** is also valid, the [Silicon Expert Search](#) page will be shown and you can begin using it.

- b. If your **Silicon Expert API account** is invalid or has expired, the [Silicon Expert landing page](#) will be shown and you won't be able to use the Compliance module until you enter valid credentials.

Note: If Silicon Expert adds new API fields (that your CIP version already supports) after your account was created, you may need to request that Silicon Expert refreshes your API account so the new fields are available in CIP. In such cases, you will also need to click the Configuration  button and log in again.

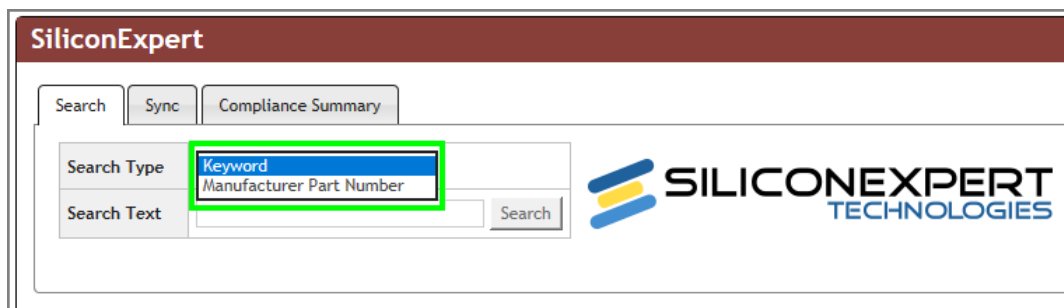
4.9.2 Search

User controls within the **Search** tab, enable you to:

1. Search for parts by Keyword, or Manufacturer Part Number.
2. Examine part details.
3. Save the Manufacturer PN with Silicon Expert Compliance Info to a New TMP Part or Add to Existing Part.

Search

To initiate a search, click the **Search Type** drop-list and select an option. Enter a search term in the **Search Text** field and click the **Search** button.



Silicon Expert Search Type Drop Menu

The number of parts for which you can retrieve compliance information is determined by the terms of your Silicon Expert API subscription. To determine how many parts you have remaining, refer to the account information section in the upper right corner of the Silicon Expert window. The number of "Parts Used" identifies the number of parts for which you have viewed part detail information. The parts listed in the Search Results tab (shown below) do not affect the number of parts used. Each time you select a new part to view, that part is added to the parts used count. The screen image below highlights this tally in the upper-right corner of the screen.

Note: Resilience Rating is returned in the Search Results page if your SE API Subscription allows it. It is subject to change at the sole discretion of Silicon Expert. The column will be displayed either way, since CIP does not know if your subscription includes Resilience Rating as part of the Search Results.

The screenshot shows the SiliconExpert search results page. The search type is 'Manufacturer Part Number' and the search text is 'bav99'. The account expiration date is August 31, 2024, and 6 out of 400 parts are used. A table lists search results with columns for Manufacturer, Manufacturer PN, Description, Category, Lifecycle, RoHS, YearsEOL, and Resilience Rating. The Resilience Rating column is highlighted in green, and the values are color-coded: 0.0 (red), 5.28 (orange), 6.84 (yellow), 6.29 (light green), 0.0 (red), 5.79 (orange), 5.74 (yellow), and 5.15 (yellow).

Manufacturer	Manufacturer PN	Description	Category	Lifecycle	RoHS	YearsEOL	Resilience Rating
Infineon Technologies AG	BAV99	Diode Switching Si 85V 0.2A Automotive AEC-Q101 3-Pin SOT-23 T/R	Rectifiers	Obsolete	Yes	0.0	0.0
Nexperia	BAV99	Diode Switching 100V 0.215A 3-Pin SOT-23	Rectifiers	Active	Yes	8.5	5.28
SMC Diode Solutions Co. LTD	BAV99	Diode Switching 0.2A 3-Pin SOT-23 T/R	Rectifiers	Active	Yes	6.7	6.84
Jiangsu Changjing Electronics Technology Co., Ltd	BAV99	Diode Switching 0.2A 3-Pin SOT-23 T/R	Rectifiers	Active	Yes	10.1	6.29
Panasonic	BAV99	Rectifier Diode Switching 80V 0.2A 3ns 3-Pin NMini3-R1-B T/R	Rectifiers	Obsolete	Yes	0.0	0.0
GUANGDONG KEJIN INDUSTRIAL CO.,LTD.	BAV99	Diode Switching 100V 0.215A 3-Pin SOT-23	Rectifiers	Active	Unknown	9.9	5.79
Comchip Technology	BAV99	Rectifier Diode Switching 0.215A 6ns 3-Pin SOT-23	Rectifiers	Unconfirmed	Yes	Unknown	5.74
Infineon Technologies AG	BAV99	Diode - Small Signal - SOT-23 - Switching Diode	Rectifiers	Active	Unknown	9.9	5.15

Silicon Expert Account Expiration, Parts Used/Total, With Resilience Rating Values

The screenshot shows the SiliconExpert search results page with the same search criteria as above. The account expiration date is August 13, 2024, and 10948 out of 20000 parts are used. The Resilience Rating column is present but empty for all rows.

Manufacturer	Manufacturer PN	Description	Category	Lifecycle	RoHS	YearsEOL	Resilience Rating
Nexperia	BAV99	Diode Switching 100V 0.215A 3-Pin SOT-23	Rectifiers	Active	Yes	8.5	
Infineon Technologies AG	BAV99	Diode Switching Si 85V 0.2A Automotive AEC-Q101 3-Pin SOT-23 T/R	Rectifiers	Obsolete	Yes	0.0	
SMC Diode Solutions Co. LTD	BAV99	Diode Switching 0.2A 3-Pin SOT-23 T/R	Rectifiers	Active	Yes	6.7	
Panasonic	BAV99	Rectifier Diode Switching 80V 0.2A 3ns 3-Pin NMini3-R1-B T/R	Rectifiers	Obsolete	Yes	0.0	
Jiangsu Changjing Electronics Technology Co., Ltd	BAV99	Diode Switching 0.2A 3-Pin SOT-23 T/R	Rectifiers	Active	Yes	10.1	
GUANGDONG KEJIN INDUSTRIAL CO.,LTD.	BAV99	Diode Switching 100V 0.215A 3-Pin SOT-23	Rectifiers	Active	Unknown	9.9	
Comchip Technology	BAV99	Rectifier Diode Switching 0.215A 6ns 3-Pin SOT-23	Rectifiers	Unconfirmed	Yes	Unknown	
Infineon Technologies AG	BAV99	Diode - Small Signal - SOT-23 - Switching Diode	Rectifiers	Active	Unknown	9.9	

Silicon Expert Account Expiration, Parts Used/Total, Without Resilience Rating Values

Examine Part Detail

Once you find a part you want to view from the Search Results tab, you may click it to display the Part Detail tab.

Search Results

Manufacturer	Manufacturer PN	Description
Infinion Technologies AG	BA199	Diode Switch
Nexperia	BA199	Diode Switch
SiC Diode Solutions Co. LTD	BA199	Diode Switch
Jiangsu Changling Electronics Technology Co., Ltd	BA199	Diode Switch
Panasonic	BA199	Rectifier Diode
GUANGDONG KEJIN INDUSTRIAL CO.,LTD.	BA199	Diode Switch
Canchip Technology	BA199	Rectifier Diode
Lision Technology Inc	BA199	Diode Switch
Continental Device India Limited	BA199	Diode Switch
KEC Corporation	BA199	Rectifier Diode
Frontier Electronics	BA199	Diode Switch
Changzhou Galaxy Century Microelectronics Co., Ltd	BA199	Diode Switch
Invac	BA199	Diode Switch
Brucknell Technology LTD	BA199	Diode Small S
Good-Ark Semiconductor	BA199	Diode Switch
Micro Commercial Components	BA199	Diode Switch
Guangdong Hottech Industrial Co., Ltd	BA199	Rectifier Diode
Hitano Enterprise	BA199	Diode Switch
RFE International	BA199	Diode Switch
EXC Semiconductor	BA199	Diode Switch
Surge Components	BA199	Diode Switch

Part Detail

An Exact MPN match was not found, the closest matches can be found below. Preview and Select a part to enable download.

Panasonic	BA199	Preview
Toshiba Electronic Devices & Storage Corp.	BA199	Preview
Rectron	BA199	Preview
Diotec	BA199	Preview

Key Risk Data

Property	Value
LifeCycleData - OverallRisk	34%
RiskData - InventoryRisk	HIGH
RiskData - LifecycleRisk	LOW
RiskData - LifecycleStage	MATURE
RiskData - MultiSourcingRisk	LOW
RiskData - RohsRisk	MEDIUM
RiskData - PredictedObsolescenceYear	2033
RiskData - YearsEOL	9.4
ResilienceRatingdetails - ResilienceRating	5.53

Lifecycle, Risk, and Replacement Data

Property	Value
LifeCycleData - PartStatus	ACTIVE
LifeCycleData - LifeCycleRiskGrade	LOW
LifeCycleData - PartLifecycleStage	MATURE
LifeCycleData - EstimatedEOLDate	2033
LifeCycleData - EstimatedYearsToEOL	9.4

Click Part from Search Results to Open Part Details

The field data in the Silicon Expert **Part Detail** tab is presented in the sections below. The exact Properties/Fields will vary per specific Manufacturer PN and your company's CIP Compliance Module or Silicon Expert API subscription.

- **Key Risk Data** - This section includes a part's key risk data to help quickly decide if you want to add a part to CIP.
- **Lifecycle, Risk, and Replacement Data** - This section includes a part's lifecycle (status, grade, EOL info, etc.), risk, replacement (sources, reason, grade, etc.), counterfeit, and PCN (date, type, source, EOL info, etc.) data.
- **Summary and Manufacturing Data** - This section includes a part's summary (AEC/automotive, military spec, datasheet, taxonomy, etc.), product image, and manufacturing (MSL, finish/plating, reflow, etc.) data.
- **Compliance, Environmental, and Regulatory Data** - This section includes a part's compliance/environmental (Reach, China RoHS, RoHS, WEEE, chemicals, conflict minerals, etc.) and qualification (agency, CECC, energy, ESD, ESCC, reliability, etc.) data.
- **Package Data** - This section includes a part's packaging (body/case, dimensions, description, pin count, etc.) data.
- **Attributes** - This section contains all part fields that are not included in one of the field groups above.

The following Silicon Expert fields will have colored text based on their specific values as shown below. Field values not matching those below will be shown in black, which is the default. These text colors will appear when viewing the Part Detail page of the Silicon Expert search, as well as when viewing the Manufacturer PN in CIP.

InventoryRisk	LifecycleRisk	LifeCycleRiskGrade	MultiSourcingRisk	RohsRisk	LifecycleStage	PartLifecycleStage	PartStatus	ResilienceRatingdetails.ResilienceRating
HIGH	HIGH	HIGH	HIGH	HIGH	OBSOLETE	OBSOLETE	OBSOLETE	0.000 - 4.999
HIGH RISK	HIGH RISK	HIGH RISK	HIGH RISK	HIGH RISK	PHASE OUT	PHASE OUT	LTB	
MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM	DECLINE	DECLINE	NRND	5.000 - 6.999
MEDIUM RISK	MEDIUM RISK	MEDIUM RISK	MEDIUM RISK	MEDIUM RISK	MATURE	MATURE	ACTIVE	
LOW	LOW	LOW	LOW	LOW	UNKNOWN	UNKNOWN	UNKNOWN	7.000 and greater
LOW RISK	LOW RISK	LOW RISK	LOW RISK	LOW RISK			UNCONFIRMED	
UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN			ACQUIRED	
Default...	Default...	Default...	Default...	Default...	Default...	Default...	Default...	

Silicon Expert Field Colors

Below is an example from a CIP Manufacturer PN containing some of the values that use colored text. In this example, the Manufacturer PN fields have also been configured into groups and reordered using [Reorder View Fields](#).

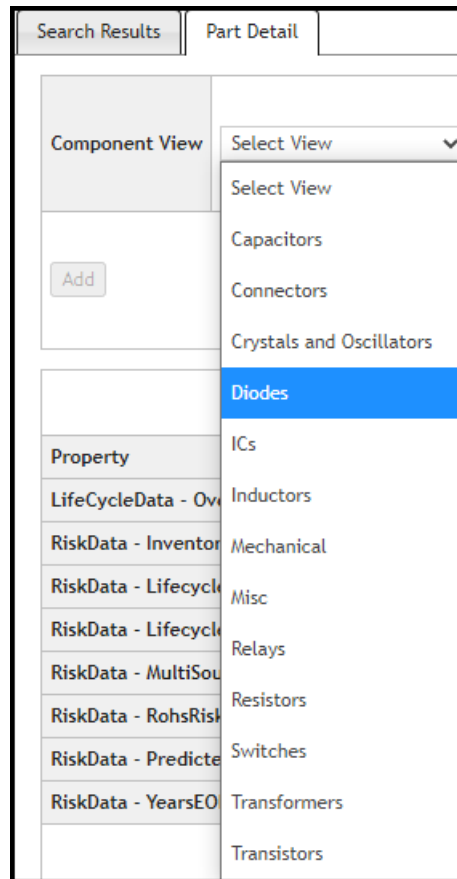
Key Risk Data	
OverallRisk	34%
LifecycleRisk	LOW
MultiSourcingRisk	LOW
PredictedObsolescenceYear	2033
ResilienceRating	5.53
InventoryRisk	HIGH
LifecycleStage	MATURE
RohsRisk	MEDIUM
YearsEOL	9.4

Lifecycle, Risk, and Replacement Data	
PartStatus	ACTIVE
PartLifecycleStage	MATURE
EstimatedEOLDate	2033
LTBDate	
LifeCycleRiskGrade	LOW
EstimatedYearsToEOL	9.4
HistoryLifecycle	<input type="button" value="View"/>
MaximumEstimatedYearsToEOL	33.9

CIP Manufacturer PN with Silicon Expert Field Value Colors

When [Ultra Librarian download](#) is enabled, you will need to log in before you can preview or download ECAD models. If you don't have an account, you can register by selecting the **Click here** link. The **Ultra Librarian** information is not shown when CIP is open from a standard browser. Ultra Librarian models may be downloaded along with the creation of a TMP part the same way as [creating a New TMP Part from Distributor Search](#).

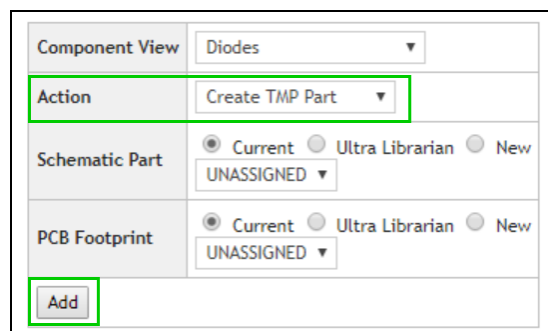
Compliance information may be transferred to the CIP database by adding the information to New TMP Part or Existing TMP or Formal Part. To add compliance data, first select a **Component View**.





Select a Component View

Create TMP Part












Options available when adding a Temp Part from the Compliance page are similar to those presented when [creating a new TMP Part from Distributor Search](#). To add compliance information to a New Temp Part, use the Action **Create TMP Part**. Then click the **Add** button. All Silicon Expert properties mapped to CIP fields are transferred to the configured CIP part.



Action: Create TMP Part

When you select a Component View for your new TMP part, a **Mapping** column appears between the Silicon Expert **Property** and **Value** columns of each field group/section. The Mapping column is shown in the image below. After you review the SE properties associated with your new TMP part, you may select a CIP field to map to a given SE Property to transfer its Value during TMP part creation. Each time you select a new CIP field to be mapped, you must click the **Add** button  to apply the mapping. You can delete a property mapping by clicking the **Delete** button  located to the right of the CIP field name in the Mapping column.

Note: After a CIP field is mapped to an SE Property, it is removed from the drop-down list shown in the Mapping column. Each property has its own drop-down list that lists all CIP fields that are available to be mapped. A CIP field can only be mapped to one SE Property, but you may map the same SE Property to multiple CIP fields.




Summary and Manufacturing Data		
Property	Mapping	Value
SummaryData - Manufacturer	<input type="text"/> 	Bruckewell Technology LTD
SummaryData - PartNumber	<input type="text"/> 	BAV99
SummaryData - PartDescription	<input type="text"/>  Description  PartDescription 	Diode Small Signal Switching 0.2A 3-Pin SOT-23 T/R
SummaryData - Datasheet	<input type="text"/>  Datasheet 	http://download.siliconexpert.com/pdfs/2017/6/28/4/16/16/399/b
History - Datasheet	<input type="text"/>  HistoryDatasheet 	<input type="button" value="View"/>
SummaryData - OnlineSupplierDatasheetURL	<input type="text"/>  OnlineSupplierDatasheetURL 	http://bruckewell-semi.com/pdf/BAV99.pdf

Mapping Column Becomes Visible After the Component View is Selected

Note: You are only able to map CIP fields that your CIP Admin has granted you permission to edit. For example, if your Admin has not granted you permission to edit the Description field, you will not be able to map it to an SE Field..

Add to Existing Part

Options available when adding to an Existing Part (Formal or TMP) from the Compliance page are similar to those presented when [Adding a Distributor Part to an Existing TMP or Formal Part](#). To add compliance information to an Existing TMP or Formal Part, select the Action **Add to Existing Part**. You have the option to overwrite existing component data. If you want to overwrite component data, you may [update the distributor property mapping](#) before adding your changes. To update existing component data, place a check in the checkbox for **Overwrite Component Data**. If you do not want to change the component data, leave the checkbox blank. Click the **Add** button to transfer the compliance information to the existing part.

Component View	Diodes 
Action	Add to Existing Part 
Part Number	TMP-1  <input type="checkbox"/> Overwrite Component Data
<input type="button" value="Add"/>	

Action: Add to Existing Part

4.9.3 Sync

The Sync tab may be used to manually sync compliance data or enable a recurring scheduled sync. The Sync tab is available to users with the [permission](#) to Sync Compliance data. All valid part numbers will be synchronized.

To manually synchronize compliance data, click the **Sync** button.

To schedule automatic synchronization, select the **Enable** checkbox, then enter how often (in number of days) you want to synchronize compliance data in the **Every x Days** field, and select a **Start Time** for when you would like to start synchronization. Click **Save** to save your scheduled synchronization.

To disable automatic synchronization, uncheck **Enable** and click **Save**.

The screenshot shows the 'Sync' tab interface. At the top, there are three tabs: 'Search', 'Sync', and 'Compliance Summary'. Below the tabs is a section titled 'Distributor Sync' containing a table with the following data:

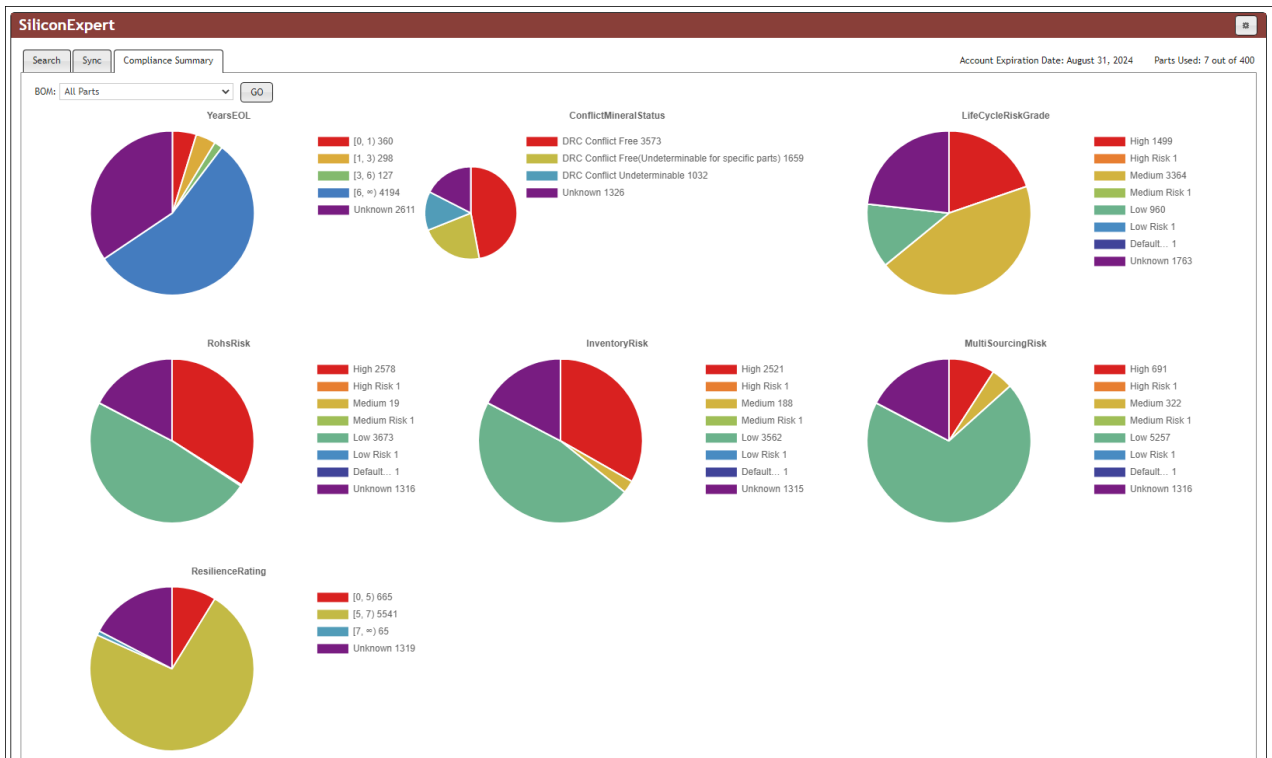
	Last Start	Last End	Progress	Error
Sync	12/23/2022 1:48:36 PM	12/23/2022 1:48:36 PM	Complete	

Below the table is a section titled 'Schedule Sync' containing a form with the following fields:

	Enable	Every x Days	Start Time	Last Run Start	Last Run Completed	Last Error
Save	<input checked="" type="checkbox"/>	1	12:00 AM			

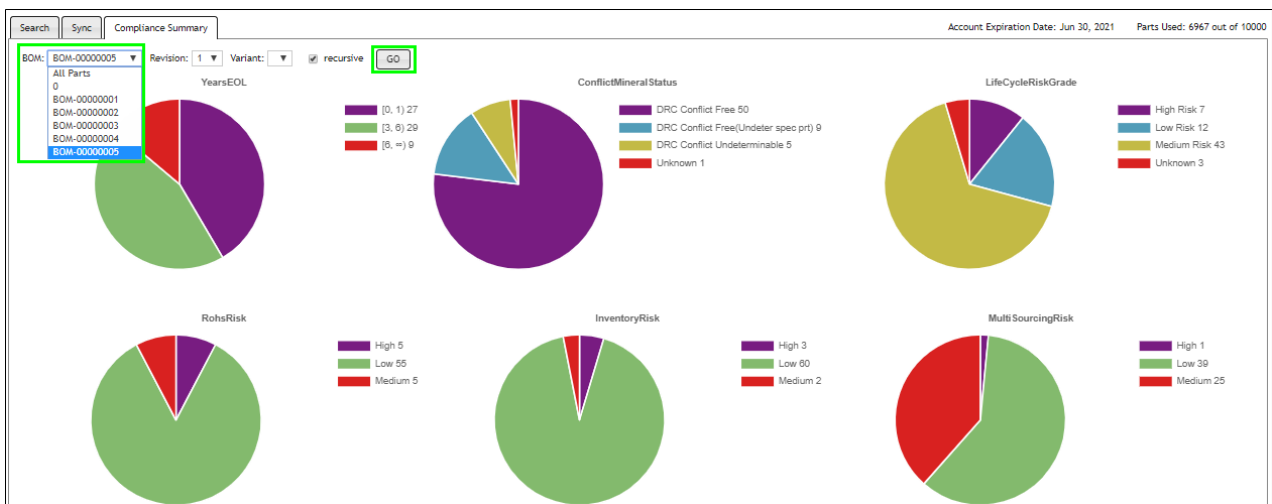
4.9.4 Summary

The **Compliance Summary** tab provides a summary risk analysis of parts in your CIP database or by part in an imported BOM. Charts in the Compliance Summary enable you to review risk by type and quantity of parts that need research. Select the **Compliance Summary** tab to view risk information across all parts in CIP.



Compliance Summary with Risk Information for All Parts

To view the summary chart corresponding to a specific BOM, select the BOM using the pull-down. Then select the Revision and Variant and click **GO**.



Click on a segment of a given pie chart to view its list of corresponding parts for the selected BOM-Revision-Variant.

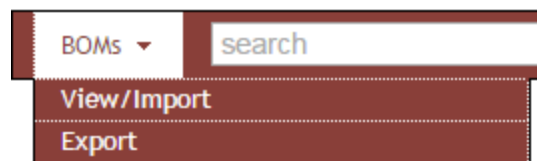
The Compliance Details window will appear, showing the following information:

- 1) Filter: This defaults to the value of the pie segment that was clicked. The list contains all the values of the selected risk field. To view a different pie segment value, select its value from the filter list and the results will load automatically.
- 2) List of manufacturer parts in the selected BOM-Revision-Variant that contain the filtered value.
- 3) Shows the selected page (when applicable) and total count that matches the filtered criteria.
- 4) Export option to export the list to a CSV or Excel file.

Note: Export functionality is not available when using the System Capture plugin.

4.10 BOMs

The BOMs menu provides links to BOM form fields and controls that allow you to view, create, import, delete, and export BOMs. This enables you to search for functionality or export additional fields to augment CIS BOM (.DSN or .CSV) or non-CIS BOM (.CSV) information imported into CIP.



BOM Menu Options

You can perform the following operations when you select the **BOMs > View/Import** menu:

- [View a BOM Revision](#) ([Single](#) or [All](#) Variants)
- [Create a New BOM](#)
- [Create/Copy to a New Revision](#)
- [Import Parts \(BOM Items\) into a BOM](#)

- [Delete a BOM Revision/Variant](#)

You can perform the following operations when you select the **BOMs > Export** menu:

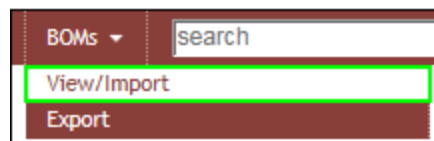
- [Select and Export Existing BOM](#)
- [Create a Capture CIS BOM](#)
- [Upload and Export a Parts List](#)
- [Generate a Template for BOM Export](#)

Note: Export functionality is not available when using the System Capture plugin.

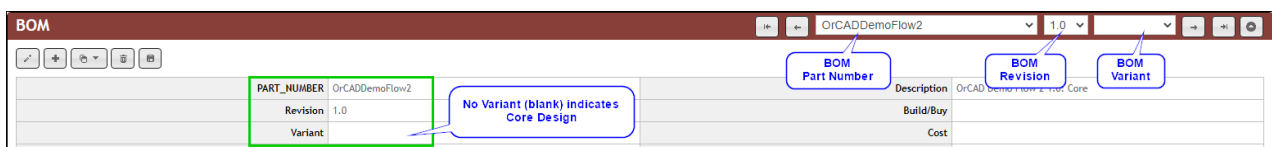
4.10.1 BOM View/Import

The **BOMs > View/Import** menu allows you to select and view a BOM, create BOM part numbers, import a parts list to a BOM, and delete a BOM. You can import part data from a CSV text file or from a design (DSN). Once your BOM is created, you can edit BOM fields, import/update BOM Items, copy BOMs/Revisions/Variants, or delete a BOM Revision's Core or a Variant.

When you select **BOMs > View/Import**, the BOM Information page selects the first BOM-Revision-Variant in the list and displays the info of the BOM and its BOM Items.



BOMs > View/Import



BOM-Revision-Variant

After selecting the **BOMs > View Import** menu, you can:

- [View a BOM](#)
- [Create a New BOM](#)
- [Create/Copy to a New Revision](#)
- [Import Parts into a BOM](#)
- [Delete a BOM Revision/Variant](#)

4.10.1.1 View a BOM

When you select **BOMs > View/Import**, the BOM Information page selects the first BOM-Revision-Variant in the list and displays the info of the BOM and its BOM Items.

BOMs can be viewed in multiple ways:

- [Specific Variant](#) of selected BOM Revision

RefDes	PART_NUMBER	Revision	Variant	Description
1 C1	EMA-00000491V22			CAP, Ceramic, SMD, 100 pF, 10 %, 50 V, 0603
2 C2	EMA-00000400V22			CAP, Ceramic, SMD, 0.1 uF, 10 %, 50 V, 0603

RefDes	PART_NUMBER	Revision	Variant	Description
1 C1	EMA-00000491V22			CAP, Ceramic, SMD, 100 pF, 10 %, 50 V, 0603
2 C2	Do Not Stuff			

Core Design (Left) vs. variant1 (Right)

- Each part used on a given RefDes for the selected variant will be shown, regardless whether it is the same part number as the core.
 - e.g. If the core and variant1 both have RefDes C1 with part EMA-00000491V22, the actual PN will be shown for C1 when viewing the core or variant1.
- When a RefDes exists in the core and not a variant, or any variant but not in the core (not possible with CIS Variants), the **Do Not Stuff** text (configurable in [BOM Format](#)) will be shown in place of the part number for the variant.
 - e.g. If the core has RefDes C2 with part EMA-00000400V22 and variant1 does not have a C2, the **Do Not Stuff** text will be shown for part number in C2 when viewing variant1.
- [All Variants](#) of selected BOM Revision

OrCADemoFlow2:1.0		
	Core	variant1
Description	OrCAD Demo Flow 2 1.0: Core	OrCAD Demo Flow 2 1.0: variant1
Build/Buy		
Cost		
Company Part Status	Unreleased	Unreleased
Last Modified By	kristopherl	kristopherl
Last Modified	Jan 9 2025 4:20PM	Jan 9 2025 4:19PM
Created	Jan 8 2025 9:13AM	Jan 8 2025 9:14AM
Created By	kristopherl	kristopherl

BOM Items		
RefDes	Core	variant1
C1	EMA-00000491V22	Same As Core
C2	EMA-00000400V22	Do Not Stuff

All Variants of selected BOM Revision

- When a variant uses the same part number as the core for a given RefDes, the **Same As Core** text (configurable in [BOM Format](#)) will be shown in place of the part number.
- When a RefDes exists in the core and not a variant, or any variant but not in the core (not possible with CIS Variants), the **Do Not Stuff** text (configurable in [BOM Format](#)) will be shown in place of the part number for the variant.
 - If BOM Items exist for the core or a variant and you create a new variant (or core if it didn't exist), the BOM Items will all initially appear as Do Not Stuff because there are no BOM Items. Once BOM Items are imported into the new variant, the configured text for **Same As Core** and **Do Not Stuff** items will be updated accordingly. e.g. Create variant2 in the example above and the BOM Items will all be Do Not Stuff because there are no items in variant2 at first.

BOM Items				
RefDes	Core	variant1	variant2	
C1	EMA-00000491V22	Same As Core	Do Not Stuff	Do Not Stuff
C2	EMA-00000400V22	Do Not Stuff	Do Not Stuff	Do Not Stuff

After initial creation, variant2 has no BOM Items. All RefDes used across the core and variant1 are shown as Do Not Stuff items on variant2.

To view a specific BOM-Revision-Variant

1. Select a BOM from the drop-down list that is located in the upper-right part of the page. Select a (BOM) Revision for the selected BOM, then select a (BOM) Variant for the selected BOM Revision. Each time you select a different BOM, Revision, or Variant, the BOM and BOM Items sections are updated.

Note: It may take a while to load BOMs, especially if they are large.

BOM

PART_NUMBER: OrCADemoFlow2
Revision: 1.0
Variant:
No Variant (blank) indicates Core Design

Selected <BOM> - <Revision> - <Variant>

Company Part Status:
Last Modified: Jan 8 2025 9:13AM
Created By: kristopherl

Cost:
Last Modified By: kristopherl
Created: Jan 8 2025 9:13AM

BOM Items

Import CSV Import DSN

Single Delimited Compact

RefDes	PART_NUMBER	Revision	Variant	Description	Quantity	Unit	Build/Buy	Cost	Last Modified	Last Modified By	Created	Created By
1 C1	EMA-00000491V22			CAP, Ceramic, SMD, 100 pF, 10 %, 50 V, 0603	1				Jan 8 2025 9:14AM	kristopherl	Jan 8 2025 9:14AM	kristopherl
2 C2	EMA-00001384V22			CAP, Ceramic, SMD, 0.1 uF, 80/20 %, 50 V, 0603	1				Jan 8 2025 9:14AM	kristopherl	Jan 8 2025 9:14AM	kristopherl
3 C3,C8,C9	EMA-00000400V22			CAP, Ceramic, SMD, 0.1 uF, 10 %, 50 V, 0603	3				Jan 8 2025 9:14AM	kristopherl	Jan 8 2025 9:14AM	kristopherl
4 C4,C5	EMA-000000517			CAP, Tantalum, SMD, 100 uF, 10 %, 6.3 V, 6032-28	2				Jan 8 2025 9:14AM	kristopherl	Jan 8 2025 9:14AM	kristopherl
5 C7	EMA-00000124V22			CAP, Ceramic, SMD, 0.01 uF, 10 %, 50 V, 0603	1				Jan 8 2025 9:14AM	kristopherl	Jan 8 2025 9:14AM	kristopherl
6 C11	EMA-00001370V22			CAP, Tantalum, SMD, 100 uF, 10 %, 16 V, 7343H-43	1				Jan 8 2025 9:14AM	kristopherl	Jan 8 2025 9:14AM	kristopherl
7 C12	EMA-00000135V22			CAP, Ceramic, SMD, 0.1 uF, 10 %, 25 V, 0603	1				Jan 8 2025 9:14AM	kristopherl	Jan 8 2025 9:14AM	kristopherl
8 C13,C14	EMA-00000374V22			CAP, Ceramic, SMD, 0.01 uF, 20 %, 16 V, 0603	2				Jan 8 2025 9:14AM	kristopherl	Jan 8 2025 9:14AM	kristopherl
9 J3	EMA-00007478V42			CONN, Header, 44206-0007, 24, TH	1				Jan 8 2025 9:14AM	kristopherl	Jan 8 2025 9:14AM	kristopherl
10 J23,P100	EMA-00007476V42			CONN, Header, N2510-6002RB, 10, TH	2				Jan 8 2025 9:14AM	kristopherl	Jan 8 2025 9:14AM	kristopherl

Single Variant Selected (Core Design)

2. Select a BOM Display Mode: Single, Delimited, or Compact.

- **Single** - Each reference designator (RefDes) is shown on a single line.
- **Delimited** - Each part number is shown on a single line where RefDes are shown as a comma separated list.
- **Compact** - Each part number is shown on a single line where RefDes are shown as ranges or a comma separated list.

BOM Items

Import CSV Import DSN

Single Delimited Compact

RefDes	PART_NUMBER	Revision	Variant	Description	Quantity	Unit	Build/Buy	Cost	Last Modified	Last Modified By	Created	Created By
1 C1	EMA-00000491V22			CAP, Ceramic, SMD, 100 pF, 10 %, 50 V, 0603	1				Jan 14 2025 9:35AM	kristopherl	Jan 14 2025 9:35AM	kristopherl
2 C2-C3,C8-C9	EMA-00000400V22			CAP, Ceramic, SMD, 0.1 uF, 10 %, 50 V, 0603	4				Jan 14 2025 9:35AM	kristopherl	Jan 14 2025 9:35AM	kristopherl
3 C4-C5	EMA-000000517			CAP, Tantalum, SMD, 100 uF, 10 %, 6.3 V, 6032-28	2				Jan 14 2025 9:35AM	kristopherl	Jan 14 2025 9:35AM	kristopherl
4 C7	EMA-00000124V22			CAP, Ceramic, SMD, 0.01 uF, 10 %, 50 V, 0603	1				Jan 14 2025 9:35AM	kristopherl	Jan 14 2025 9:35AM	kristopherl
5 C11	EMA-00001370V22			CAP, Tantalum, SMD, 100 uF, 10 %, 16 V, 7343H-43	1				Jan 14 2025 9:35AM	kristopherl	Jan 14 2025 9:35AM	kristopherl
6 C12	EMA-00000135V22			CAP, Ceramic, SMD, 0.1 uF, 10 %, 25 V, 0603	1				Jan 14 2025 9:35AM	kristopherl	Jan 14 2025 9:35AM	kristopherl
7 C13-C14	EMA-00000374V22			CAP, Ceramic, SMD, 0.01 uF, 20 %, 16 V, 0603	2				Jan 14 2025 9:35AM	kristopherl	Jan 14 2025 9:35AM	kristopherl

Single Variant - Compact Display Mode

Note: Component part attributes (e.g. Description, Schematic Part, PCB Footprint, etc.) cannot be altered or added when viewing or importing a BOM because they are tied to the part numbers themselves.

To view All Variants of a given BOM-Revision,

1. Select a BOM from the drop-down list that is located in the upper-right part of the page. Select a (BOM) Revision for the selected BOM, then select **All Variants** for the selected BOM Revision. Each time you select a different BOM, Revision, or Variant, the BOM and BOM Items sections are updated.

Note: It may take a while to load BOMs, especially if they are large.

2. The top section shows the **BOM Fields** for the core and all variants of the selected BOM Revision.

3. The **RefDes** column shows a cumulative list of all RefDes used across the BOM Revision, displaying a single row per RefDes. This will always display BOM Items in Single display mode and cannot be changed when All Variants is selected.
 - a. The **Core** column appears when a core design exists. It will list all parts used on the core.
 - b. Each variant appears in a single column.
4. When a variant uses the same part number as the core for a given RefDes, the **Same As Core** text (configurable in [BOM Format](#)) will be shown in place of the part number.
 - a. e.g. RefDes C8 shows EMA-0000400V22 in the Core. Since the variant1 and variant2 also use the same part number for C8, they both show Same as Core.
5. When a RefDes exists in the core and not a variant, or any variant but not in the core (not possible with CIS Variants), the **Do Not Stuff** text (configurable in [BOM Format](#)) will be shown in place of the part number for the variant.
 - a. e.g. RefDes J3 shows EMA-00007478V22 in the Core. Since J3 is not used in variant1 or variant2, they both show Do Not Stuff.
 - b. For Capture CIS variants, the Core design will always include all of the parts. However, if managing your variants elsewhere and importing via the Import CSV button, the Core may have Do Not Stuff values if at least one variant uses a RefDes not used on the Core.
6. When a RefDes of a given variant uses a different part number than the core, the actual part number used on each variant will be displayed.
 - a. e.g. RefDes R1 shows EMA-00003232V22 in the Core, EMA-00002609V22 in variant1, and EMA-00002609V22 in variant2. All display the actual part number for row R1.

BOM OrCADemoFlow2 1.0 All Variants

OrCADemoFlow2:1.0

BOM Fields for Core design and All Variants

	Core	variant1	variant2
Description	OrCADemoFlow 2 1.0: Core	OrCADemoFlow 2 1.0: variant1	OrCADemoFlow 2 1.0: variant2
Build/Buy			
Cost			
Company Part Status	Unreleased	Unreleased	Unreleased
Last Modified By	kristopherl	kristopherl	kristopherl
Last Modified	Jan 9 2025 4:20PM	Jan 9 2025 4:19PM	Jan 9 2025 4:19PM
Created	Jan 8 2025 9:13AM	Jan 8 2025 9:14AM	Jan 7 2025 4:46PM
Created By	kristopherl	kristopherl	kristopherl

BOM Items

RefDes and BOM Items (Part Numbers) for all Variants

RefDes	Core	variant1	variant2
C1	EMA-00000491V22	Same As Core	Same As Core
C2	EMA-00001384V22	Do Not Stuff	Do Not Stuff
C3	EMA-00000400V22	Do Not Stuff	Do Not Stuff
C4	EMA-00000517	Same As Core	Same As Core
C5	EMA-00000517	Same As Core	Same As Core
C7	EMA-00001249V22	Same As Core	Same As Core
C8	EMA-00000400V22	Same As Core	Same As Core
C9	EMA-00000400V22	Same As Core	Same As Core
C11	EMA-00001370V22	Same As Core	Same As Core
C12	EMA-00000135V22	Same As Core	Same As Core
C13	EMA-00000374V22	Same As Core	Same As Core
C14	EMA-00000374V22	Same As Core	Same As Core
J3	EMA-00007478V22	Do Not Stuff	Do Not Stuff
J23	EMA-00007478V22	Do Not Stuff	Do Not Stuff
J2001	EMA-00007478V22	Do Not Stuff	Do Not Stuff
P100	EMA-00007478V22	Same As Core	Same As Core
R1	EMA-00003232V22	EMA-00002609V22	EMA-00002609V22
R2	EMA-00003690	Same As Core	Same As Core


All Variants Selected

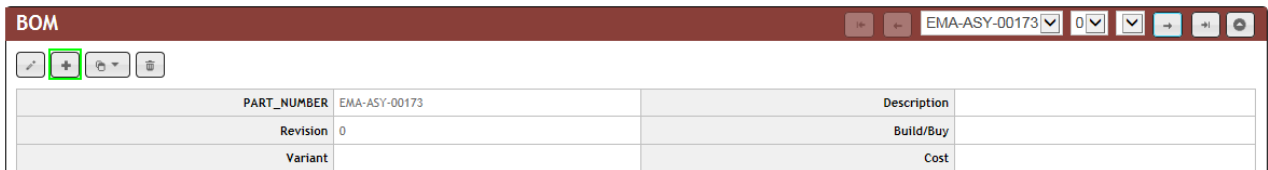
4.10.1.2 Create a New BOM

You can add a new BOM from the **BOMs > View/Import**, BOM Information page.

To create a new BOM

1. Click the **New**  button.

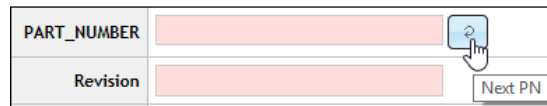
Note: The New BOM  button is only available to users who are granted permission to add a new BOM.




PART_NUMBER	EMA-ASY-00173	Description	
Revision	0	Build/Buy	
Variant		Cost	


New BOM Creation

A new blank BOM entry form opens. The cell shading in the new form that opens indicates required field information that must be entered before the new BOM can be saved. The PART_NUMBER and Revision fields are required fields.



PART_NUMBER	<input type="text"/>	
Revision	<input type="text"/>	Next PN

Auto Number Next PN

2. Manually enter a BOM PN or click the **Auto-number**  button to insert an automatically generated part number for your BOM.
3. Manually enter a revision number. This is required field entry.
4. You may optionally enter a variant value if your new BOM has a variant. The variant value entered, however, must match a CIS variant. Leave this field blank if a CIS variant is not used.





PART_NUMBER	BOM-00000001	Description	New BOM First Revision
Revision	<input type="text"/>	Build/Buy	Build
Variant	<input type="text"/>	Cost	TBD

Add New BOM

5. Click the  button to save the new BOM with all entered information.

As shown in the image below, access to your new BOM, as well as other BOMs, is available from the drop-down list located in the upper right corner of the screen. If desired, you can select a BOM from the drop-list and

click the **Edit** button  to either enter additional field information or edit an existing value. Click the save button  to save your modifications.


PART_NUMBER	BOM-0000001	Description	New BOM First Revision
Revision	0	Build/Buy	Build
Variant		Cost	TBD

Added New BOM

6. After the BOM has been created, continue adding BOMs, Revisions, and Variants as needed.

You may now [Import BOM Items](#) to your BOM revision's core or variants.

4.10.1.3 Create/Copy to a New Revision

You can use **Copy to New Revision**  to create a new variant or revision for the BOM. BOM attribute data is copied to a new revision or variant without copying the BOM items.

To copy a BOM and create a revision

1. Select the BOM you wish to copy from the drop-list located in the upper right part of the screen.

Copy BOM Button

2. Select the **Copy BOM** button  and option for the copy.

If you select **New Revision**, the BOM form will appear with all fields copied except for Revision and Variant. If you want to copy to a new Variant, the variant will be the only field that needs to be filled in.

Revision and Variant Fields

3. After the BOM has been copied, continue adding BOMs, Revisions, and Variants as needed.

You may now [Import BOM Items](#) to your BOM revision's core or variants.

4.10.1.4 Import Parts into a BOM

Navigate to the **BOMs > View/Import** page and select the desired BOM-Revision-Variant. Parts can be imported from the BOM Items section of the selected BOM. You can import parts into BOMs from a **.CSV** file using the

Import CSV

button or from an open Capture schematic design using the

Import DSN

button.

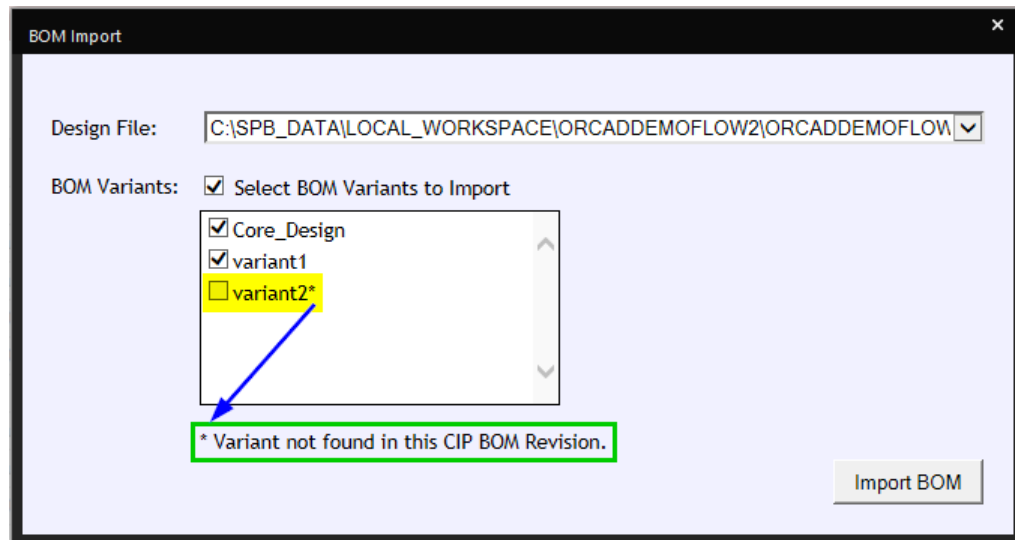
Note: A BOM revision and variant must be created, as described in [Creating a New BOM](#), before you begin the import process. When using **Import CSV**, the list of parts may be from a [Capture CIS BOM](#) or a BOM from another source, as long as it is formatted in a supported .CSV file and all of the parts exist in CIP prior to import.

To import a BOM from a design (DSN) file

1. Open the design in Capture CIS and launch CIP.
2. Select **BOMs > View/Import** and select the desired BOM Revision from the BOM PN drop-down list. When importing from DSN, any CIS Variants can be imported to the selected CIP BOM Revision, regardless of the variant selected (within the BOM Revision) in CIP.
3. Click the **Import DSN** button, located in the BOM Items section of your screen.
4. Select the design from the **Design File** drop-down list and select the desired CIS Variants to import, then click the **Import BOM** button. The variants in the CIP BOM Revision update with the parts from the design.

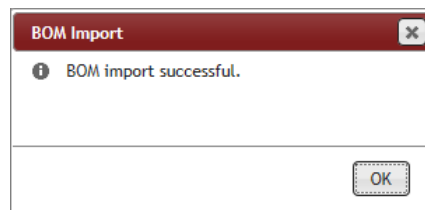
Select DSN and BOM Variants for Import

Note: If CIS Variants being imported do not exist in the selected CIP BOM Revision, they will be unchecked (disabled for import) and marked with an asterisk as shown. You can continue with the import of selected variants and import the missing ones later, or cancel the operation by clicking the **X** and create the missing variants in CIP before importing.



CIS Variant is Missing in CIP and Unchecked/Disabled for Import

5. A confirmation message displays to let you know the import was successful. Click **OK** to close the window.



Import Success

Note: When importing designs with variants, your design file must be opened within Capture CIS. All variants within the design file must match the variant names in CIP when using **Import DSN** to automatically import parts for selected core design and variants.

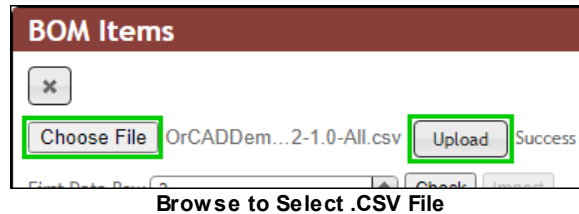
6. After import, you can [view the BOM](#) as usual, using [single variant](#) or [All Variants](#).

To import a single BOM (BOM-Rev-Variant) from a CSV file

1. Select **BOMs > View/Import** and select the desired BOM Revision from the BOM PN drop list, then select the [Core \(blank\) or Specific Variant](#) from the variant list.
2. Click the **Import CSV** button, located in the BOM Items section of your screen.

- Click the **Choose File** button. Navigate to the .CSV file that contains your part list. Select the .CSV file, click **Open**, then click the **Upload** button.

Note: The selected BOM must be formatted as a .CSV file. Additionally, all part numbers in the BOM must exist in CIP prior to import, unless they match the **Do Not Stuff** text configured in [BOM Format](#).



After the BOM uploads, a list of parts included in your BOM displays in the BOM Items area. Notice the blank fields that display above each column header.

- Click the drop arrow to map the CSV file columns to the CIP PART_NUMBER and RefDes columns. If the BOM part list you are importing contains a child BOM (or sub-assembly), you also need to map the Revision and Variant columns. Otherwise, only the RefDes and PART_NUMBER need to be mapped. Optionally, map any other BOM column fields you want to import.

Map CSV BOM Columns to CIP and Select First Row of Data Part Table

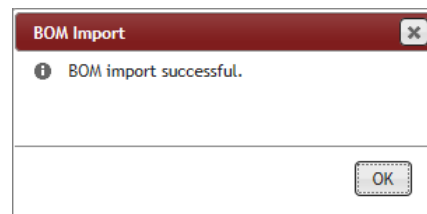
5. Select the first row of the data table and click the **Check** button to validate table rows/columns are mapped correctly. This validation check ensures part numbers in the BOM list are also in CIP.



Check BOM Part Mapping

Note: All part numbers in the BOM must exist in CIP prior to import, unless they match the **Do Not Stuff** text configured in [BOM Format](#). If parts use the configured **Do Not Stuff** text, CIP will treat them as such.

6. Once the validation succeeds, click the **Import** button. A confirmation message displays to let you know the import was successful.



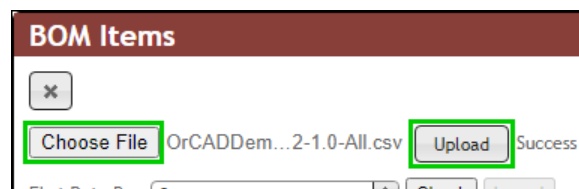
Import Success

7. After import, you can [view the BOM](#) as usual, using [single variant](#) or [All Variants](#).

To import multiple BOM Variants into a BOM Revision (Core, Variants) from a CSV file

1. Select **BOMs > View/Import** and select the desired BOM Revision from the BOM PN drop list, then select the [All Variants](#) option from the variant list.
2. Click the **Import CSV** button, located in the BOM Items section of your screen.
3. Click the **Choose File** button. Navigate to the .CSV file that contains your part list. Select the .CSV file, click **Open**, then click the **Upload** button.

Note: The selected BOM must be formatted as a .CSV file. Additionally, all part numbers in the BOM must be in CIP prior to import, unless they match the **Do Not Stuff** text configured in [BOM Format](#).



Browse to Select .CSV File

After the BOM uploads, a list of parts included in your BOM displays in the BOM Items area. Notice the blank fields that display above each column header.

- Click the drop arrow to map the CSV file columns to the CIP PART_NUMBER and RefDes columns for each of the desired variants (Core, Variants) to be updated. If the BOM part lists you are importing contain a child BOM (e.g. sub-assembly), you also need to map the Revision and Variant columns for each BOM Variant. Otherwise, only the RefDes and each variant's PART_NUMBER need to be mapped.

BOM Items

Choose File OrCADDem...2-1.0-All.csv Upload Success

First Data Row 2 Check Import

	RefDes	Core PART_NUMBER	variant1 PART_NUMBER	variant2 PART_NUMBER
1	Item#	RefDes	Core Design PN	variant1 PN
2	1	C1	EMA-0000091V22	EMA-0000091V22
3	2	C2	EMA-00000400V22	Do Not Stuff
4	3	C3	EMA-00000400V22	Do Not Stuff
5	4	C4	EMA-00000517	EMA-00000517
6	5	C5	EMA-00000517	EMA-00000517
7	6	C7	EMA-00000124V22	EMA-00000124V22
8	7	C8	EMA-00000400V22	EMA-00000400V22
9	8	C9	EMA-00000400V22	EMA-00000400V22
10	9	C11	EMA-00001370V22	EMA-00001370V22
11	10	C12	EMA-00000135V22	EMA-00000135V22
12	11	C13	EMA-00000374V22	EMA-00000374V22
13	12	C14	EMA-00000374V22	EMA-00000374V22
14	13	J3	EMA-00007478V42	Do Not Stuff
15	14	J23	EMA-00007476V42	Do Not Stuff
16	15	J2001	EMA-00007477V42	Do Not Stuff
17	16	P100	EMA-00007476V42	EMA-00007476V42

RefDes
Core PART_NUMBER
Core Revision
Core Variant
variant1 PART_NUMBER
variant1 Revision
variant1 Variant
variant2 PART_NUMBER
variant2 Revision
variant2 Variant
Do Not Stuff
Do Not Stuff
EMA-00007476V42

Map CSV BOM Columns to CIP and Select First Row of Data Part Table

- Select the first row of the data table and click the **Check** button to validate table rows/columns are mapped correctly. This validation check ensures part numbers in the BOM list are also in CIP.

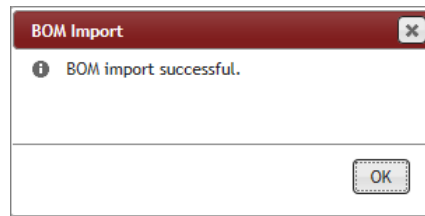
Choose File OrCADDem...2-1.0-All.csv Upload Success

First Data Row 2 Check Import Validation Succeeded

Check BOM Part Mapping

Note: All part numbers in the BOM must exist in CIP prior to import, unless they match the **Do Not Stuff** text configured in [BOM Format](#). If parts use the configured **Do Not Stuff** text, CIP will treat them as such.

- After the validation succeeds, click the **Import** button. A confirmation message displays to let you know the import was successful.




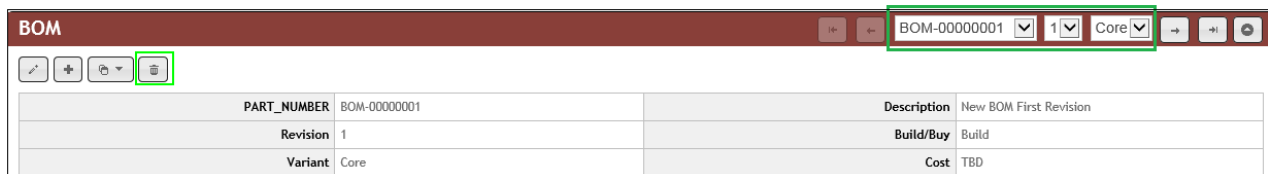
Import Success

7. After import, you can [view the BOM](#) as usual, using [single variant](#) or [All Variants](#).

4.10.1.5 Delete a BOM Revision/Variant

To delete a BOM revision variant

1. Open the BOM revision/variant you want to delete by selecting **BOMs > View/Import** and selecting the BOM name from the drop list located in the upper right corner of your screen.
2. Select the **Delete** button  of the BOM you wish to delete.



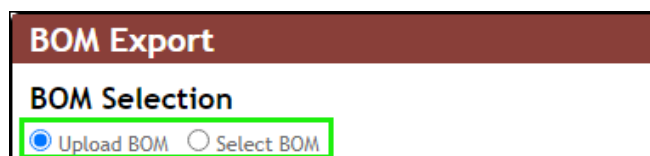
BOM Delete Button

The selected BOM revision/variant is deleted from CIP.

4.10.2 BOM Export

The BOM Export feature allows you to upload and export a CIS Bill of Materials (BOM) through use of the **BOMs > BOM Export > Upload BOM** radio option. The BOM Export feature also allows you to select and export an existing CIP BOM through use of the **BOMs > BOM Export > Select BOM** radio button. You can select additional fields and export the parts list to a comma separated .CSV file or to Excel.

There are several Output Options available based on the **BOM Selection** option to **Upload BOM** or **Select BOM**.



BOM Export - BOM Selection Options

After selecting the **BOMs > Export** menu, you can:

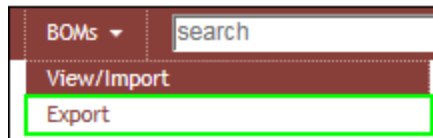
- [Select and Export Existing BOM](#)
- [Create a Capture CIS BOM](#)
- [Upload and Export a Parts List](#)
- [Generate a Template for BOM Export](#)

Note: Export functionality is not available when using the System Capture plugin.

4.10.2.1 Select and Export Existing BOM

To Select, Configure, and Export an Existing BOM

1. Select **BOMs > Export**.



BOM Export Menu

Note: Export functionality is not available when using the System Capture plugin.

2. Choose the **Select BOM** radio option and click the BOM drop-down list to select the BOM file you want to upload and export from the drop-down list.

BOM Export

BOM Selection

Upload BOM Select BOM

BOM: Select PART_NUMBER

Additional Fields

----- Component/BOM -----

RefDes

Quantity

Saved Templates

Type: Personal

Template: [Dropdown] [Add] [Remove]

Default: [Check] [X]

Output Options

Include Component View

Recursive

Include Top Level



Include Mechanical Parts

Manufacturer Limit [Dropdown]

Sort Order: PART_NUMBER



RefDes Display Mode: Single Delimited Compact

BOM Selection - Options when using Select BOM

3. If using a **Saved Template**, the default Template will load automatically. Select a Template **Type** (Personal or Global), then select the desired **Template** to load its settings. If not using a template, skip this step.
4. Select **Additional Fields** from CIP using the drop-down list to add fields to the BOM you are exporting. After you select a field, click the **Add**  button to add the field name to the list of additional fields located immediately below the selection field. Drag-and-drop a field name to move it up and down the list. Click the red  on a field's row to remove it from the included output fields.
 - a. **RefDes** and **Quantity** are added by default, since they are common BOM fields.
 - b. **BOM Revision** and **Variant** fields will only be included when (1) a Child BOM is present, or (2) the **Include Top Level** option below is selected.
5. Select the desired **Output Options**. Some of these are only available with **Select BOM** is chosen as the **BOM Selection**.
 - a. **Include Component View** - Add a column for the CIP Component View name (e.g. Capacitors, Connectors, etc.) to each part of the BOM.
 - b. **Recursive** - Add list of parts used for Child BOMs.
 - c. **Include Top Level** - Include the BOM number itself (i.e. Level 0). When selected, **BOM Revision** and **Variant** fields will be included automatically.
 - d. **Include Mechanical Parts** - Include [Mechanical Parts](#). When selected, **Mechanical Quantity** and **Parent PN** fields will be included automatically.

- e. **Manufacturer Limit** - If you include **Manufacturer**, **Manufacturer PN**, or any of the related Manufacturer/Distributor fields, you may wish to specify the number of Manufacturer Parts to include with each part on a BOM. When unchecked, All Manufacturer Parts will be used. - e.g. Limit Manufacturer (PN) to **1** if you only want to include the first **Manufacturer PN** (left-most MFR/MFRPN tab when viewing a part in CIP).

Note: If you include any Distributor data, it will display such data for All Distributor PNs belonging to each Manufacturer PN.

- f. **Sort Order** - Configure the default BOM sort order (**PART_NUMBER**, **RefDes**).
- g. **RefDes Display Mode** - Select the format (**Single**, **Delimited**, **Compact**) for the parts of the BOM you would like to export.
6. Click the **Update**  button to display the BOM below, after selecting the desired **Additional Fields** and **Output Options**, .
7. Repeat **Steps 4-6** until the BOM is ready for export.
8. Click the **Export**  button and choose whether you want the file format to be **CSV** or **Excel**. A confirmation message appears when your export is successfully completed.
- If you choose the CSV format you are prompted to Save or Open the new (.CSV) file.
 - If you choose **Open**, the file opens directly in your browser window.
 - If you choose **Save** you are prompted to select a location to save the (.CSV) file.

Note: Export functionality is not available when using the System Capture plugin.

Refer to the example below to see how a BOM Export output looks before exporting it. Notice how the Description, Manufacturer, and Manufacturer PN fields are now visible in the parts list. The new parts list also shows multiple Manufacturer PNs that are associated with single company part numbers. There are many combinations of BOM fields and output options so keep in mind that this is only an example of a specific export scenario.

BOM Export

BOM Selection
 Upload BOM Select BOM
 BOM: ORCADDEHOFLOW2_SCHEMATIC 00

Saved Templates
 Type: Personal
 Template: [Dropdown]
 Default: [X]

Additional Fields
 Access Time [Dropdown]
 RefDes
 Quantity
 Description
 Order
 Manufacturer
 Manufacturer PN
 Distributor
 Distributor PN

Output Options
 Include Component View
 Recursive
 Include Top Level
 Include Mechanical Parts
 Manufacturer Limit [Dropdown]
 Sort Order: PART_NUMBER
 RefDes Display Mode: Single Delimited Compact

EMA-0000135V22 has 4 MFR/MFPNs associated, 3 of which have a single associated Dist/DistPN.

Level	PART_NUMBER	Revision	Variant	Component View	RefDes	Quantity	Description	Order	Manufacturer	Manufacturer PN	Distributor	Distributor PN
0	ORCADDEHOFLOW2_SCHEMATIC	00		BOMs			6/3/2024					
2	EMA-00000124V22			Capacitors	C7	1	CAP, Ceramic, SMD, 0.01 uF, 10 %, 50 V, 0603					
3	EMA-00000124V22							1	KEMET Corporation	CD603C103K5RAC	SiliconExpert	23865016
4	EMA-00000135V22			Capacitors	C12	1	CAP, Ceramic, SMD, 0.1 uF, 10 %, 25 V, 0603	0	Kemet	CD603C104K3RAC		
5	EMA-00000135V22							1	Kemet	CD603C104K3RACTU	Digi-Key	399-1281-2-ND
6	EMA-00000135V22							2	KEMET Corporation	CD603C104K3RAC	SiliconExpert	24636480
7	EMA-00000135V22							3	KEMET Corporation	CD603C104K3RACTU	SiliconExpert	24828682

Configured Additional Fields and Output Options

4.10.2.2 Create a Capture CIS BOM

CIP supports any .CSV parts list, including (but not limited to) Capture CIS BOMs.

After you create a schematic design, you can generate a CIS BOM to upload in CIP before you export.

To create a CIS BOM

1. Open/create your design in CIS.
2. Select it (e.g. .\cis.dsn) and select **Reports > CIS Bill of Materials > Standard**.

The Standard Bill of Materials window opens.

3. Change the Template Name to **BOM Template**. This enables you to reuse the template at a later time.
4. Select **Part Number** from the Output Format list, then click **Remove**.
5. Scroll through the Report Properties and select **PART_NUMBER**, then click **Add** to move it to the Output Format list.
6. Do not check **Allow Saving Title Block Properties**.
7. In the Part Reference Options, leave the default as Standard output.

8. Check **Export BOM report to Excel**.
9. Click **OK** to view the BOM.
10. Review the Standard Output.
11. Click **File > Save As**. Name the BOM and choose to Save it as a .CSV file.

Please refer to the Cadence OrCAD Capture CIS User's Guide (Open CIS, click Help > OrCAD Capture CIS Help > CIS Help) for more information regarding the creation of a Standard CIS Bill of Materials.

4.10.2.3 Upload and Export Parts List

Uploading a parts list is a quick and simple process. To upload a parts list, you must first create a CIS BOM from Capture CIS (or other parts list) and save it as a (.CSV) file.

To Upload a BOM (Parts List)

1. Open CIP and select the **BOMs > Export** menu.
2. Select the **Upload BOM** radio button if it is not already selected. Click the **Choose File** button and navigate to the BOM (parts list). Select the file and click the **Open** button.

The screenshot shows the 'BOM Export' dialog box. The 'BOM Selection' section has two radio buttons: 'Upload BOM' (selected and highlighted with a green box) and 'Select BOM'. Below these is a 'Choose File' button and the text 'No file chosen'. An 'Upload' button is also present. The 'Saved Templates' section includes a 'Type' dropdown set to 'Personal', a 'Template' dropdown, and a 'Default' section with checkmarks. The 'Additional Fields' section has a dropdown menu showing 'Component/BOM'. The 'Output Options' section has two checkboxes: 'Include Component View' and 'Manufacturer Limit'.

BOM Selection - Options when using Upload BOM

3. Notice the path and filename of the BOM you selected is now visible in the input field. Click the **Upload** button.

Uploading a (.CSV) Parts List

The part list opens.

4. Enter the row numbers for the first BOM child item (First Data Row) and Header Row as shown in the screen image below.

When the row numbers of the First Data Row and Header Row are entered, the header row becomes highlighted in a light shade of blue and the first row of data becomes highlighted in green (shown below).

Select First Data Row and Header Row

5. Notice the blank fields above each column, (see screen image below). Click the drop arrow for your Part Number column and select **PART_NUMBER** from the list to map CIS and CIP parts. If your parts list contains a child BOM (or sub-assembly) you may also map the Revision and Variant columns to associate the child BOM.

1	Part Reference	Quantity	
2	C1	1	PART_NUMBER
3	C2-C3,C8-C9	4	Revision
4	C4	1	Variant
5	C5	1	
6	C7	1	EMA-00000124V22
7	C11	1	EMA-00001370V22
8	C12	1	EMA-00000135V22
9	C13-C14	2	EMA-00000374V22
10	C15	1	EMA-00000178V22



Mapping the BOM PART_NUMBER Column

- Continue with configuration and export of the Uploaded BOM.

To Configure and Export an Uploaded BOM



After you upload a BOM, continue with the export by adding additional fields and selecting output options.

BOM Selection - Options when using Upload BOM

- Verify the Header and Part Number fields are set up properly.
- If using a **Saved Template**, the default Template will load automatically. Select a Template **Type** (Personal or Global), then select the desired **Template** to load its settings. If not using a template, skip this step.
- Select **Additional Fields** from CIP using the drop-down list to add fields to the BOM you are exporting. After you select a field, click the **Add**  button to add the field name to the list of additional fields located immediately below the selection field. Drag-and-drop a field name to move it up and down the list. Click the red  on a field's row to remove it from the included output fields.
- Select the desired **Output Options**. Some of these are only available with **Select BOM** is chosen as the **BOM Selection**.
 - Include Component View** - Add a column for the CIP Component View name (e.g. Capacitors, Connectors, etc.) to each part of the BOM.
 - Manufacturer Limit** - If you include **Manufacturer**, **Manufacturer PN**, or any of the related Manufacturer/Distributor fields, you may wish to specify the number of Manufacturer Parts to include with each part on the BOMs. When unchecked, All

Manufacturer Parts will be used. - e.g. Limit Manufacturer (PN) to **1** if you only want to include the first **Manufacturer PN** (left-most MFR/MPN tab when viewing a part in CIP).

Note: If you include any Distributor data, it will display such data for All Distributor PNs belonging to each Manufacturer PN.

5. When you are finished selecting **Additional Fields** and **Output Options**, click the **Update**  button to display the BOM below.
6. Repeat **Steps 3-5** until the BOM is ready for export.
7. Click the **Export**  button and choose whether you want the file format to be **CSV** or **Excel**. A confirmation message appears When your export is successfully completed.
 - If you choose the CSV format you are prompted to Save or Open the new (.CSV) file.
 - If you choose **Open**, the file opens directly in your browser window.
 - If you choose **Save** you are prompted to select a location to save the (.CSV) file.

Note: Export functionality is not available when using the System Capture plugin.

Refer to the example below to see how a BOM Export can look before exporting it. Notice how the Description, Manufacturer, and Manufacturer PN fields are now visible in the parts list. The new parts list also shows multiple Manufacturer PNs that are associated with single company part numbers. There are nearly an unlimited combination of BOM fields and output options so note that this is only an example of a specific scenario.

BOM Export

BOM Selection

Upload BOM Select BOM

Choose File ORCADDE...EMATIC.csv Upload

First Data Row 2 Header Row 1

Additional Fields

Access Time

- Description
- Order
- Manufacturer
- Manufacturer PN
- Distributor
- Distributor PN

Saved Templates

Type Personal

Template

Default

Output Options

Include Component View

Manufacturer Limit

Part Reference	Quantity	PART_NUMBER	Component View	Description	Order	Manufacturer	Manufacturer PN	Distributor	Distributor PN
1		EMA-00000491Y22		EMA-00000491Y22	0	AVX	06035A101KAT2A	SiliconExpert	24623444
3		EMA-00000400V22	Capacitors	CAP, Ceramic, SMD, 0.1 uF, 10 %, 50 V, 0603	0	AVX	06035C104KAT2A	SiliconExpert	24810995
4	C2-C3,C8-C9	EMA-00000400V22			1	AVX	06035C104KAT4A	SiliconExpert	31069664
5		EMA-00000517	Capacitors	CAP, Tantalum, SMD, 100 uF, 10 %, 6.3 V, 6032-28	0	AVX	TPSC107K006R0150	Digi-Key	478-1764-2-ND
6	C4	EMA-00000517			1	AVX	TPSC107K006S0150	Digi-Key	478-1764-2-ND
7		EMA-00000517							


Configured Additional Fields and Output Options

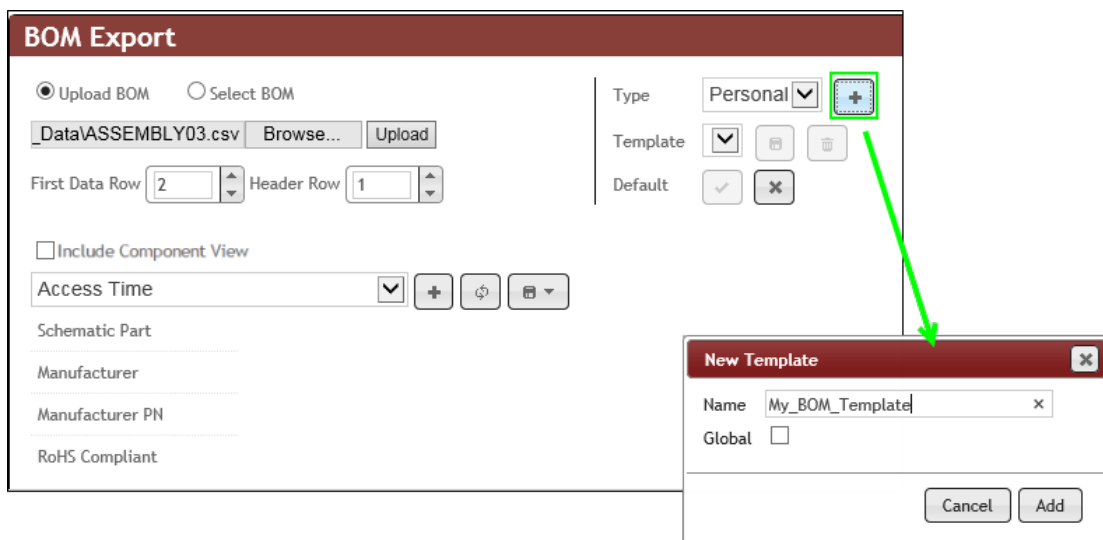
4.10.2.4 Generate a Template for BOM Export

If you have a BOM template that you use to create your BOM, you can generate a BOM Export template. You can save this template as either a global or a personal template. After your template is saved, you can re-use it without reformatting your uploaded file.





After you have gone through the steps of [uploading a parts list](#) you can save the configurations to a template as described in the steps that follow.

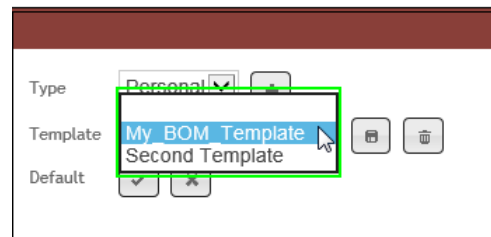
To save configurations to a template

1. Select the **Create New Template**  button to open the New Template pop up.
2. Enter a name for the template for which you are saving the configuration.
3. If the template is to be used by other users, select the **Global** check box. Then click the **Add** button.



Using an Advanced Export Template

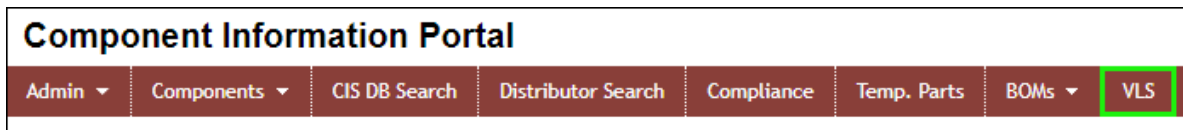
The saved template is included in the Template drop-down list. You may also make any template the default by selecting a template and clicking the **Set Selected Template as Default**  button. The default template loads automatically each time you open BOM Export. Click the **Clear Default Template**  button to clear the default setting. If you make a change to the template, you may save the changed template by clicking the **Save Changes to Selected Template**  button. Click on the **Delete Selected Template**  button to delete the selected template.



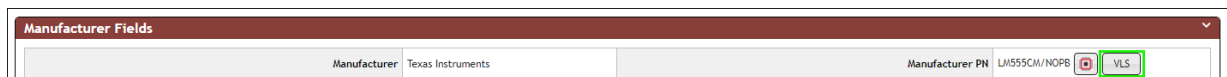
Save Changes to Selected Template

4.11 Virtual Librarian Service (VLS)

Virtual Librarian Service (VLS) enables access to the **VLS** menu item. VLS helps engineering teams create their own exclusive part libraries fast and accurately, allowing engineers to focus on innovation. VLS can be accessed via the **VLS** menu item to view, filter, and create requests, or via the **VLS** button shown on a Manufacturer PN (MPN) to more quickly create a request for the specific MPN. VLS options will only be shown when VLS is [enabled in the configuration](#) and when you are [logged into an Ultra Librarian account](#) that has VLS access.

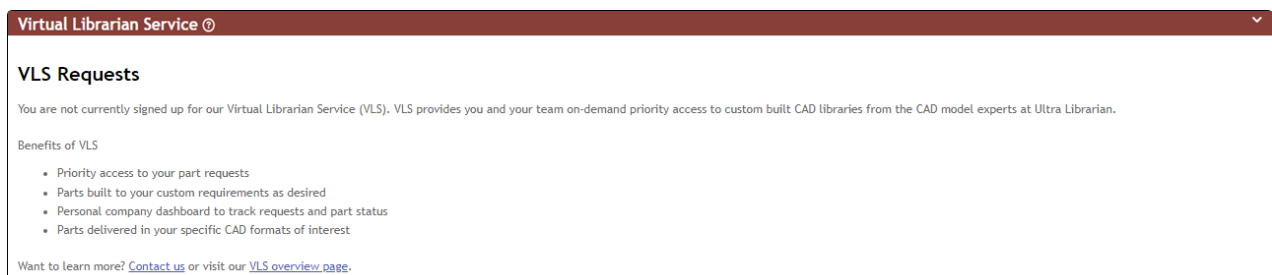


Access to Virtual Librarian Service (VLS) via VLS Menu Item




Access to Virtual Librarian Service (VLS) via VLS Button on a Manufacturer PN

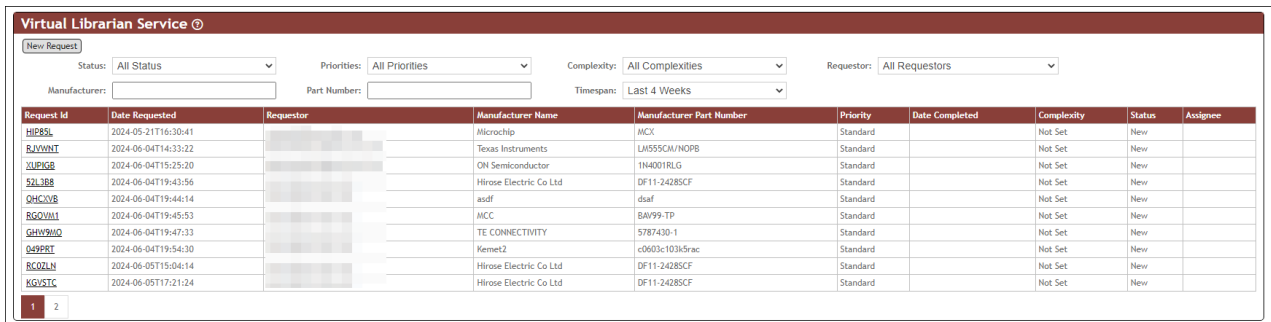
When you have [enabled VLS in the configuration](#) but are not [logged into an Ultra Librarian account](#) that has VLS access, you will see the page below.



When you have [enabled VLS in the configuration](#) and are [logged into an Ultra Librarian account](#) that has VLS access, you will see the summary page below where you can view, filter, and create

requests. The page will dynamically wrap the filter and search fields based on the size of your window, so this screenshot may not appear exactly as it does for you.


Click the  link in the title bar to open the User Guide to this section.

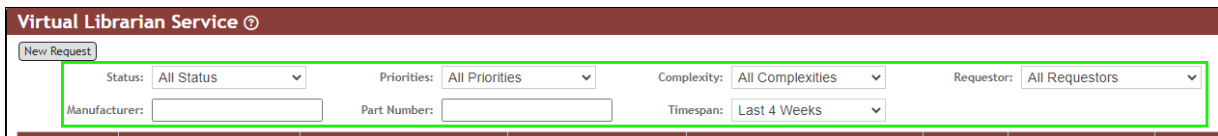



Request ID	Date Requested	Requestor	Manufacturer Name	Manufacturer Part Number	Priority	Date Completed	Complexity	Status	Assignee
HFBSS	2024-05-21T16:30:41		Microchip	MCX	Standard		Not Set	New	
BVWNT	2024-06-04T14:33:22		Texas Instruments	LM555CM/NOPB	Standard		Not Set	New	
VUPKR	2024-06-04T15:25:20		ON Semiconductor	1N4001RLG	Standard		Not Set	New	
SZL3ER	2024-06-04T19:43:56		Hirose Electric Co Ltd	DF11-2428SCF	Standard		Not Set	New	
QHCQVB	2024-06-04T19:44:14		asdf		Standard		Not Set	New	
RGQVMI	2024-06-04T19:45:53		MCC	BAV99-TP	Standard		Not Set	New	
GHWVAD	2024-06-04T19:47:33		TE CONNECTIVITY	5787430-1	Standard		Not Set	New	
Q49PRT	2024-06-04T19:54:30		Kemet2	c0603c103k5rac	Standard		Not Set	New	
RCOZLN	2024-06-05T15:04:14		Hirose Electric Co Ltd	DF11-2428SCF	Standard		Not Set	New	
KGVSTC	2024-06-05T17:21:24		Hirose Electric Co Ltd	DF11-2428SCF	Standard		Not Set	New	

Note: Download functionality is not available when using the System Capture plugin.

To access the Virtual Librarian Service (VLS) menu item to view, filter, or download attachments from existing requests,

1. Click  from the CIP menu bar. Your VLS request summary will be shown.
2. From there you will see your existing requests and have the option to filter them using the available pick lists and text input fields.



Virtual Librarian Service 

New Request

Status: All Status Priorities: All Priorities Complexity: All Complexities Requestor: All Requestors

Manufacturer: Part Number: Timespan: Last 4 Weeks

VLS Filter Options

- a. Click the pick list(s) for the desired field(s) to filter your requests.
 - i. **Status** - All Status(es), New, Open, Closed
 - ii. **Priorities** - All Priorities, Standard, High Priority
 - iii. **Complexity** - All Complexities, High, Low, Medium, Not Set
 - iv. **Requestor** - All Requestors, or select an individual from your list of requests.
 - v. **Timespan** - Last 4 Weeks, All Time
 - b. Enter **Manufacturer** and/or (Manufacturer) **Part Number** to search your requests. These will filter on-the-fly so you can quickly narrow down your list of requests.
3. Review your requests and click on a specific request to open it. You have multiple options when viewing a request.

Virtual Librarian Service ⓘ

[Back to Search](#)

Request Id:	TJK9WW	Status:	New
Date Requested:	2024-06-06T20:06:34		
Manufacturer:	Texas Instruments	Part Number:	LM555CM/NOPB
Priority:	Standard	Complexity:	Not Set
Attachments:	lm555.pdf | KRISTOPHERL@EMA-EDA.COM | 2024-06-06T20:06:37 | delete <input type="button" value="Choose Files"/> No file chosen		
Instructions:	Build with reduced spacing where possible.		
Request Types:	<input checked="" type="checkbox"/> Symbol <input checked="" type="checkbox"/> Footprint <input type="checkbox"/> 3D Model		

[Update](#) [Delete](#)

New Comment:

[Add Comment](#)

Comments:

- 2024-06-06T20:06:34:
 Build with reduced spacing where possible.

- a. **Update Request** - You may update any of the editable fields or add new attachments, then click [Update](#) to update the request.
- b. **Download File Attachment** - Click the attachment file name in [blue text](#) (e.g. [lm555.pdf](#)) to download it.
 Note: Download functionality is not available when using the System Capture plugin.
- c. **Delete File Attachment** - Click the [delete](#) button next to the file attachment you'd like to delete it. *This is only available for files that you have uploaded, not those added by others.
- d. **Delete Request** - Click the [Delete](#) button next to the (request) Update button to delete the request. *This is only available for requests that you have created, not those added by others.
- e. **Add Comments** - Enter a comment in the New Comment: section, then click [Add Comment](#) to update the request.
- f. **Return to Summary/Search** - Click [Back to Search](#) when you are ready to return to the summary/search list.

To create a new VLS request from the summary page,

1. Click [VLS](#) from the CIP menu bar. Your VLS request summary will be shown.

2. Begin a new request by clicking the **New Request** button.
3. Add and select appropriate information regarding your request.

The screenshot shows the 'Virtual Librarian Service' interface for creating a new request. It features a 'Back to Search' button at the top left. The form is organized into several sections:

- Subscription:** A dropdown menu with 'EMA_d69e2' selected.
- Priority:** A dropdown menu with 'Standard' selected.
- Manufacturer:** A text input field containing 'Texas Instruments'.
- Part Number:** A text input field containing 'LM555CM/NOPB'.
- Attachments:** A section showing 'lm555.pdf' with a 'delete' button and a 'Choose Files' button.
- Instructions:** A large text area containing the text 'Build with reduced spacing where possible.'.
- Request Types:** A section with three checkboxes: 'Symbol' (checked), 'Footprint' (checked), and '3D Model' (unchecked).

 At the bottom left of the form is a 'Create' button.

- a. **Subscription** - Select your VLS subscription account if you have more than one. Otherwise you can skip this.
 - b. **Priority** - Select the desired request priority.
 - c. **Manufacturer** - Enter the Manufacturer for the part in question.
 - d. **(Manufacturer) Part Number** - Enter the Manufacturer PN being requested.
 - e. **Attachments** - Add associated datasheets or part specs associated with your Manufacturer PN by clicking **Choose Files**, selecting your file, and uploading. Repeat this process to add as many attachments as needed. Click the **delete** button to remove an attachment.
 - f. **Instructions** - Enter any specific instructions related to this part.
 - g. **Request Types** - Select the desired models for the request: **Symbol**, **Footprint**, or **3D Model**.
4. Click the **Create** button to submit the request. After submitting the request, click **Back to Search** when you are ready to return to the summary/search list.

To create a new VLS request from an existing part in CIP,

1. Open an existing CIP part, then scroll down to one of its Manufacturer PNs.
2. When viewing an existing CIP Manufacturer PN, click the **VLS** button next to the Manufacturer PN.

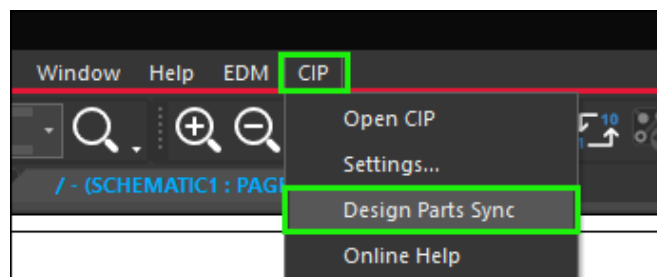
- The same [VLS form](#) will appear as above, pre-populated with the Manufacturer and (Manufacturer) Part Number from which you had clicked the [VLS](#) button. Complete the form as described above, then click the [Create](#) button to submit the request.

4.12 Design Parts Sync

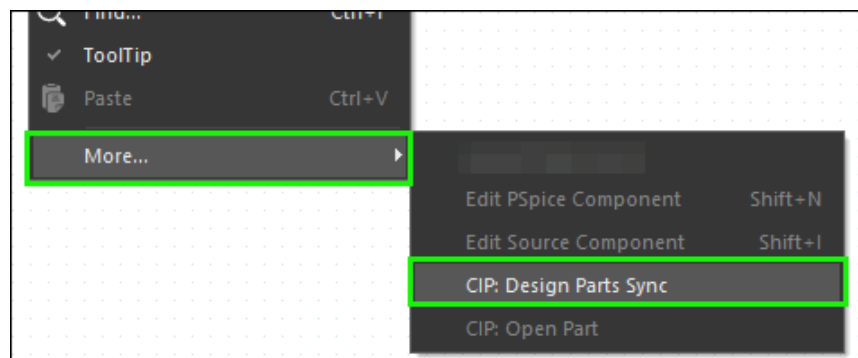
After opening a design in OrCAD Capture that was created using CIP parts, you can run Design Parts Sync to review all parts (Part References, RefDes) placed on the schematic design and ensure their [transferred fields](#) are up to date with respect to your CIP database. The CIP database connection is determined by your **CIP URL** under **CIP > Settings**. This feature does not require an ODBC data source connection, but that is still required if you use CIS Explorer or CIS Part Manager.

Design Parts Sync can be launched by clicking **CIP > Design Parts Sync** from the top menu, or by right-clicking (RMB) inside an open schematic design page and selecting **More... > CIP: Design Parts Sync**. After launching the feature, it will open to the [Summary page](#) in a new or existing tab (**CIP Design Parts Sync: <DESIGNNAME.DSN>**), displaying the [Summary Information](#), [Part Status Report](#), [Display Mode, Export, and User Settings](#), and [Sync Actions](#).

Note: This feature requires OrCAD Capture, the CIP Client plugin, and setting [Transfer Fields to Design](#) to **OrCAD using CIP** or **CIP and System Capture**. It is not available when using the System Capture plugin.



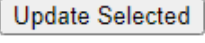
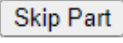
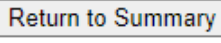


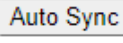

Launch Design Parts Sync from top CIP Menu



Launch Design Parts Sync from RMB on an Open Schematic Page

The **Design Parts Sync** consists of the following:

1. [Summary page](#) - This is the initial Design Parts Sync page that loads in a new or existing tab (**CIP Design Parts Sync: <DESIGNNAME.DSN>**), displaying the [Summary Information](#), [Part Status Report](#), [Display Mode, Export, and User Settings](#), and [Sync Actions](#). Data displayed on the summary page will be refreshed each time you open the Design Parts Sync tab, click the **Refresh**  button, complete an Auto Sync, or return from Processing page after processing selected parts.
2. [Processing page](#) - This loads in a Design Parts Sync tab after you select the check boxes for the desired parts and then click . It allows the user to review the selected parts (RefDes) to process, grouped by part number, and decide whether to , , or . All of the Part References associated with a single PART_NUMBER are grouped together and can be processed together as well, but individual items can be deselected if you do not wish to sync them at that time.


Note: If you use  in place of , it will **Automatically Sync** the selected design parts with the CIP database, without user interaction. The Processing page will not be shown in this case.

3. [Part Replacement page](#) - This loads in a Design Parts Sync tab and can be invoked [from a selected part on the schematic design](#) or [from the Summary page](#) of Design Parts Sync. It allows the user to select a part RefDes or set of RefDes and choose a different part number from CIP to replace them with. It is recommended that you [Sync Parts on Design with CIP Database](#) before replacing parts.

Refer to [Sync Parts on Design with CIP Database](#) for instructions on the following:

1. [Launch Design Parts Sync](#).
2. [Sync selected design parts](#) with the CIP database, one part number at a time, with user interaction.
3. [Automatically Sync all selected design parts](#) with the CIP database, without user interaction.

4.12.1 Summary

The Summary page is the initial Design Parts Sync page that loads in a new or existing tab (**CIP Design Parts Sync: <DESIGNNAME.DSN>**), displaying the [Summary Information](#), [Part Status Report](#), [Display Mode, Export, and User Settings](#), and [Sync Actions](#). Data displayed on the summary page will be refreshed each time you open the Design Parts Sync tab, click the **Refresh**  button, complete an Auto Sync, or return from Processing page after processing selected parts.

Click the  link in the title bar to open the User Guide to this section.

Design Parts Sync - Summary

C:\SPB_DATA\LOCAL_WORKSPACE\DESIGNS\ORCADEMOFLOW2_SCHEMATIC.DSN
 Total RefDes: 41, Parts: 23 – Last Checked: 6/7/2024, 4:02:05 PM

Display Mode: Single Delimited Compact

<input type="checkbox"/>	Part Sync Status	Part Reference	PART_NUMBER	Revision	Value	Description	PCB Footp
<input checked="" type="checkbox"/>	Found - Out of Date	C1	EMA-00000491V22	1	1000pF	CAP, Ceramic, SMD, 100 pF, 10 %, 50 V, 0603	CAPC1608
<input type="checkbox"/>	Found - Up to Date	C2	EMA-00000400V22	1.0	0.1uF	CAP, Ceramic, SMD, 0.1 uF, 10 %, 50 V, 0603	CAPC1608
<input type="checkbox"/>	Found - Up to Date	C3	EMA-00000400V22	1.0	0.1uF	CAP, Ceramic, SMD, 0.1 uF, 10 %, 50 V, 0603	CAPC1608
<input checked="" type="checkbox"/>	Found - Out of Date	C4	EMA-00000517	1.0	10uF	CAP, Tantalum, SMD, 100 uF, 10 %, 6.3 V, 6032-28	CAPMP603
<input checked="" type="checkbox"/>	Found - Up to Date	C5	EMA-00000517	1.0	100uF	CAP, Tantalum, SMD, 100 uF, 10 %, 6.3 V, 6032-28	CAPMP603

Design Parts Sync - Summary View

- [Summary Information](#)
- [Display Mode, Export, and User Settings](#)
- [Part Status Report](#)
- [Sync Actions](#)

The **Summary Information** displays the following data:



Design Parts Sync - Summary

C:\SPB_DATA\LOCAL_WORKSPACE\DESIGNS\ORCADEMOFLOW2_SCHEMATIC.DSN
 Total RefDes: 41, Parts: 23 – Last Checked: 6/7/2024, 4:02:05 PM

Design Parts Sync - Summary Information


- **Refresh** button - Click to refresh the Summary Information and [Part Status Report](#) for the current design.
- **Design Path** and **File Name** - Design Path and File Name of the current design (DSN) file in the form of <Design Path>\<Design File Name>.
- **RefDes** - The total number of RefDes (Part References) used on the current design.
- **Parts** – The total number of unique Parts (PART_NUMBERS) used on the current design.

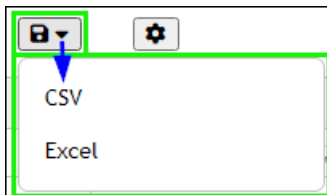
- **Last Checked (Date/Time)** – The last date and time the summary page was loaded (initially invoked, refreshed, and after processing).

The **Display Mode and User Settings** determine how the data is displayed in the [Part Status Report](#). The **current Display Mode** is always shown above the Part Status Report, while the rest of the settings can be accessed by clicking the **Settings**  button. The current report can be exported using the **Export**  button.

- **Display Mode** - This allows the Part References (RefDes) used on the design to be shown using one of three modes (Single, Delimited, Compact), similar to the options when viewing or exporting CIP BOMs. Each time the Summary page loads in a new tab, it uses the Default Display Mode from the User Settings below, which is initially set to Single.

Display Mode: Single Delimited Compact
(Current) Display Mode

- **Single** - Each reference designator is shown on a single line. *This is the initial default for all users.
 - **Delimited** - Each part number is shown on a single line where reference designators are shown as a comma separated list.
 - **Compact** - Each part number is shown on a single line where reference designators are shown as ranges or a comma separated list.
- **Export** - Use the Export  button to save the Part Status Report in either **CSV** or **Excel** format.



- **User Settings:**

Settings

Default Display Mode: Single Delimited Compact

Default Selection State: All None


Default Sort: Part Reference

Summary Displayed Fields



Frequency Tolerance	Tolerance
Temperature Coefficient	PCB Footprint
	ALT_SYMBOLS
	CLASS
	Lifecycle
	Package Height
	Package Size
	Package Type
	Polarity
	Rated Power
	Rated Voltage
	Revision
	Supply Voltage
	Manufacturer
	Manufacturer PN

Cancel Save

Settings

- **Default Display Mode** - Configure the default Display Mode (**Single, Delimited, Compact**) for the [Part Status Report](#), similar to the (on-the-fly) Display Mode setting. ***Single** is the initial default for all users.
- **Default Selection State** - Configure the default selected check boxes (**All, None**) for the [Part Status Report](#). ***All** is the initial default for all users.
- **Default Sort** - Configure the default sort order (**Part Reference, PART_NUMBER then Part Reference**) for the [Part Status Report](#). ***Part Reference** is the initial default for all users.
- **Summary Displayed Fields** - This shows the PART_NUMBER and a cumulative list of all CIP Fields [configured to Transfer to Design](#) for all component views. By default, all fields set to Transfer to Design in CIP will be shown on the right side, meaning they will be shown in the [Part Status Report](#). Click and drag a field up or down the list on the right to reorder it. Click the  button to move a field back to the left side so it will not be shown in the Part Status Report, though it will still be used to determine the Part Sync Status.

- o Click  to save your updates or  to discard them.

The **Part Status Report** is displayed in table form and includes the data columns below for all parts placed on the design, as of the date/time shown in the [Summary Information](#) at the top of the page. The Part Sync Status and Part Reference columns are always shown, while the rest of the columns can be shown/hidden and reordered using the Settings  button. Data displayed in the report may be exported using the Export  button, with options for **CSV** and **Excel** output.

<input checked="" type="checkbox"/>	Part Sync Status	Part Reference	Quantity (13)	PART_NUMBER	Value	Description	PCB Footprint	ALT_S
<input checked="" type="checkbox"/>	TMP Conversion Required	C4	1	TMP-33 (FORMAL-32)	0.027uF	CAP CER 0.027UF 10V X7R 0402	TBD	
<input type="checkbox"/>	Not Found	C5	1	LEGACYCAP-49	0.027uF	CAP CER 0.027UF 10V X7R 0402	TBD	
<input type="checkbox"/>	Not Found	C7	1	TMP-215	0.027uF	CAP CER 0.027UF 10V X7R 0402	TBD	
<input type="checkbox"/>	Not Found	C16	1		39pF	CAP, Ceramic, SMD, 39 pF, 5.0 %, 50 V, 0805	CAPC2012X71N	
<input type="checkbox"/>	Schematic Part Mismatch	C17	1	EMA-00000894V22	680pF	CAP, Ceramic, SMD, 680 pF, 5.0 %, 50 V, 0805	CAPC2012X71N	
<input type="checkbox"/>	Found - Duplicate RefDes	CR3	1	EMA-00002228	HSMP-386B	DIO, Switch, HSMP-386B, --, --, --, SOT-323	SOT65P210X110-3N	
<input type="checkbox"/>	Found - Duplicate RefDes (TMP)	CR3	1	TMP-74	MMBD914	DIO, Array, MMBD914, --, 1.0 V, 350 mW, SOT-23	SOT95P230X109-3N	
<input checked="" type="checkbox"/>	Found - Out of Date	C2	1	EMA-00001411V22	120pF	CAP, Ceramic, SMD, 1.2 pF, 0.25 pF, 50 V, 0402	CAPC1005X55N	
<input checked="" type="checkbox"/>	Found - Out of Date (TMP)	C8	1	TMP-75	39pF	CAP, Ceramic, SMD, 39 pF, 5.0 %, 50 V, 0805	CAPC2012X71N	
<input type="checkbox"/>	Found - Needs Annotation	U?	1	EMA-00006837V22	MAX1617A	IC, Misc, Temperature Sensor, MAX1617A, QSOP-16	SOP63P602X173-16N	
<input type="checkbox"/>	Found - Needs Annotation (TMP)	<blank>	1	TMP-50	LM555CMM/NOPB	IC OSC SGL TIMER 100KHZ 8VSSOP	mua08a	
<input type="checkbox"/>	Found - Up to Date (TMP)	U1	1	TMP-57	UNASSIGNED	Timer 8-Pin PDIP	UNASSIGNED	
<input type="checkbox"/>	Found - Up to Date	C1	1	EMA-00000128V22	0.1uF	CAP, Ceramic, SMD, 0.1 uF, 5.0 %, 50 V, 0805	CAPC2012X100N	

Part Status Report - Example

Part Sync Status	Example: Part Reference	Example: PART_NUMBER	Description of Part Sync Status
TMP Conversion Required	R1	TMP-75 (EMA-00003691)	Design PN is no longer a TMP PN in CIP and requires conversion.
Not Found	C5	LEGACYCAP-49	Design PN not found in CIP.
Not Found	C7	TMP-215	Design PN not found in CIP (TMP PN).
Not Found	C16		Design PN is blank.
Schematic Part Mismatch	C8	EMA-00000150V22	Design PN <Source Library>\<Source Package> does not correlate to CIP Schematic Part.
Found - Duplicate RefDes	CR3	EMA-00002228	Design PN found in CIP with RefDes used multiple times.
Found - Duplicate RefDes (TMP)	CR3	TMP-63	Design PN found in CIP (TMP PN) with RefDes used multiple times.
Found - Out of Date	C2	EMA-00001411V22	Design PN found in CIP, one or more transferred properties are out of date with CIP.
Found - Out of Date (TMP)	U1	TMP-57	Design PN found in CIP (TMP PN), one or more transferred properties are out of date with CIP.
Found - Needs Annotation	U?	EMA-00006837V22	Design PN found in CIP, RefDes undefined and needs to be annotated.
Found - Needs Annotation (TMP)	<blank>	TMP-52	Design PN found in CIP (TMP PN), RefDes undefined and needs to be annotated.
Found - Up to Date (TMP)	C4	TMP-33	Design PN found in CIP (TMP PN), transferred properties are up to date with CIP.
Found - Up to Date	C1	EMA-00000128V22	Design PN found in CIP, transferred properties are up to date with CIP.

Part Status Report - Part Sync Statuses

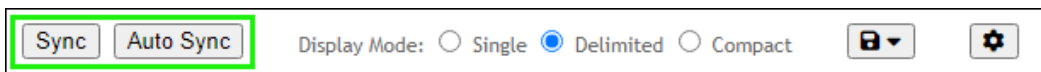
The **Part Sync Status**, **Part Reference**, **PART_NUMBER**, and other **CIP Fields** [configured to Transfer to Design](#) will be highlighted and labeled based on the Part Sync Status scenarios above.

- **Check Boxes** - The left-most column consists of a Select All/None check box, followed by individual check boxes associated with each data row. e.g. Design Parts that are **Found - Up to Date**, **Found - Up to Date (TMP)**, etc. will not be selectable because their CIP transferred fields are already up to date so there is no action to take.

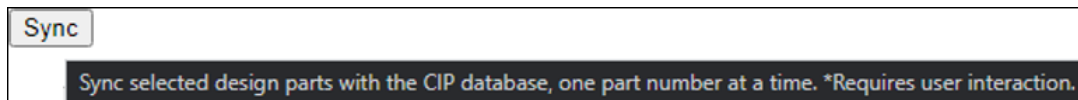
- **Part Sync Status** - This indicates the status of each part (Part Reference) placed on the design, relative to its PART_NUMBER in CIP. The **Part Sync Status**, **Part Reference**, and **PART_NUMBER** will be highlighted and labeled based on the Part Sync Status values shown above. In some cases, the same placed part may meet multiple criteria, in which case the Part Sync Status displayed will be prioritized as shown above. *This column is always shown, not able to be reordered.
 - Part Reference and PART_NUMBER will also be highlighted under certain conditions as shown above in the **Part Status Report - Part Sync Statuses**.
 - When any [CIP Field transferred to Design Property](#) is out of date with CIP, the value of the Design field in the [Part Status Report](#) will also be highlighted.
- **Part Reference** - This column lists all of the Part Reference(s) for a given row. The number of Part References depends on the Display Mode and number of unique records based on the references and PART_NUMBER shown. The Part Reference value will be highlighted under certain conditions as shown. *This column is always shown, not able to be reordered. In Single and Delimited display mode, the Part References are clickable links that can take you to the associated part on the design. In Compact display mode, only rows with a single Part Reference are links.
- **PART_NUMBER** - This column lists the associated PART_NUMBER for the Part Reference(s) on a given row. This can be grouped to one or more Part Reference(s) depending on the Display Mode and number of unique records for the RefDes and PART_NUMBER shown. *While this column can be hidden using the [User Settings](#), it is not recommended. The PART_NUMBERS are clickable links that can take you to the associated part in a new CIP tab.
- **Source Library and Source Package** - These are Capture properties that include the path/location of the schematic part along with the schematic part name itself. When a part is placed on the design using CIP, the Schematic Part field will be used, along with the path(s) from your Capture.INI file (unless the explicit path is specified in the Schematic Part field). There are various ways to specify the Schematic Part (e.g. CAP, CAPACITORS\CAP, \CENTRALLIBRARY\CAPACITORS.OLB\CAP, etc.) so there is logic that tries to account for this when comparing the Source Library and Source Package to the Schematic Part value in CIP.
 - If an issue/mismatch is found, you must resolve it by (1) updating the Schematic Part value for the part in CIP, (2) updating the path(s) in your Capture.INI file, or (3) using the Replace Cache feature in Capture. This is because the Source Library and Source Package fields themselves are not editable properties in your Capture design. The appropriate solution will depend on each case found.
- **Other Design Fields/Properties** that are [configured to Transfer to Design](#) in CIP - The rest of the fields shown are specific to your CIP database and consists of the fields that your CIP has set to Transfer to Design and that are configured to be shown in your Design Parts Sync's [User Settings](#).
 - While not required, these CIP fields are most often set to transfer to design from CIP: **Value, Description, PCB Footprint, ALT_SYMBOLS, CLASS**

- Other key parametric data fields that are commonly set to transfer to design from CIP: **Package Size, Package Height, Tolerance, Rated Voltage, Schematic Part, etc.**
- **Replace Part** - This context menu can be invoked by right-clicking (RMB) on a row for a single RefDes (Single display mode) or group of RefDes (Delimited or Compact display mode) to be replaced. Follow the instructions to continue with [Part Replacement from Design Parts Sync](#).

The **Sync Actions** are used to update the transferred design properties for the parts on your design with the associated field data from your CIP database. Select the check boxes for the desired parts (Part References aka RefDes) and then click one of the two sync options. Hover over either button to see a tooltip with a more detailed description.



1. **Sync** - This will open the [Processing page](#) and allow the user to **review the selected parts (RefDes) to process**, grouped by part number, and decide whether to **Update Selected**, **Skip Part**, or **Return to Summary**. All of the Part References associated with a single PART_NUMBER are grouped together and can be processed together as well, but individual items can be deselected if you do not wish to sync them at that time.




2. **Auto Sync** - **Automatically Sync** all selected design parts with the CIP database, without user interaction. The Processing page will not be shown in this case.



4.12.2 Processing

The Processing page will launch in the same Design Parts Sync tab after you select the check boxes for the desired parts and then click **Sync**. This allows the user to review the selected parts (RefDes) to process, grouped by part number, and decide whether to **Update Selected**, **Skip Part**, or **Return to Summary**. All of the Part References associated with a single PART_NUMBER are grouped together and can be processed together as well, but individual items can be deselected if you do not wish to sync them at that time.

Note: If you use **Auto Sync** in place of **Sync**, it will **Automatically Sync** the selected design parts with the CIP database, without user interaction. The Processing page will not be shown in this case.

Click the  link in the title bar to open the User Guide to this section.

Component Information Portal

Design Parts Sync - Processing (1 of 3)

View: Capacitors
PART_NUMBER: [EMA-00000374V22](#)

Update Selected Skip Part Return to Summary

Part Sync Status	Part Reference	Revision	Description	Lifecycle	PCB Footp
		2.0	CAP, Ceramic, SMD, 0.01 uF, 20 %, 16 V, 0603	Deprecated	CAPC1608
Found - Out of Date	C13	2.0	CAP, Ceramic, SMD, 0.01 uF, 20 %, 16 V, 0603	In Design	CAPC1608
Found - Out of Date	C14	2.0	CAP, Ceramic, SMD, 0.01 uF, 20 %, 16 V, 0603	In Design	CAPC1608

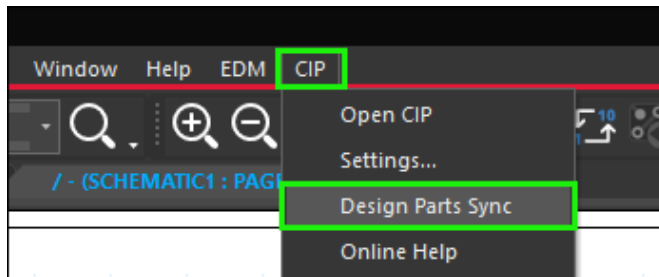
Design Parts Sync - Sync View

1. Current CIP **PART_NUMBER** and the CIP (Component) **View** to which it belongs. Click on the part number (e.g. EMA-00000374V22) to open the part in a new CIP tab inside Capture.
2. Current progress, shown as a **percentage** (e.g. 33.3%) and as **current part number out of total selected part numbers** (e.g. 1 of 3). The progress counts are also shown in parentheses in the title bar.
3. CIP's transferred field data for the current CIP PART_NUMBER. This appears in the top data row of the table, just below the header row, and does not have a Part Reference since it is referring to the part in CIP and is not a RefDes placed on the design.
4. Design's transferred field/property data for each RefDes placed on the design. Out of Date values on the design are highlighted as shown. Refer to the [Part Status Report](#) for all Part Sync Statuses and highlight colors.

4.12.3 Sync Parts on Design with CIP Database

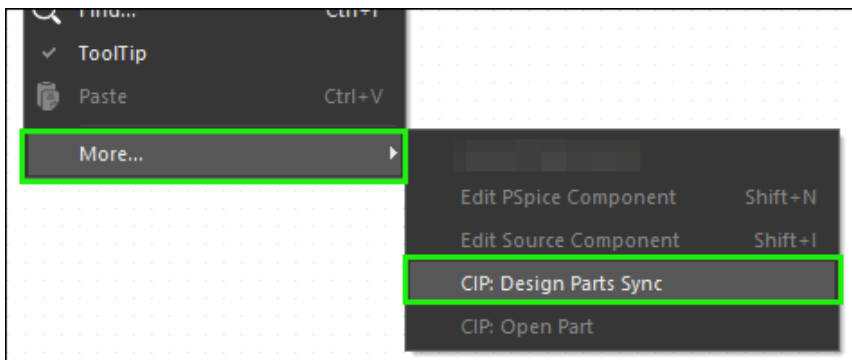
To launch Design Parts Sync,

1. Open a schematic design page, otherwise Design Parts Sync will be disabled.
2. Invoke Design Parts Sync using one of these methods:
 - a. **CIP menu in Capture** - Select **CIP > Design Parts Sync** from Capture's top menu bar.



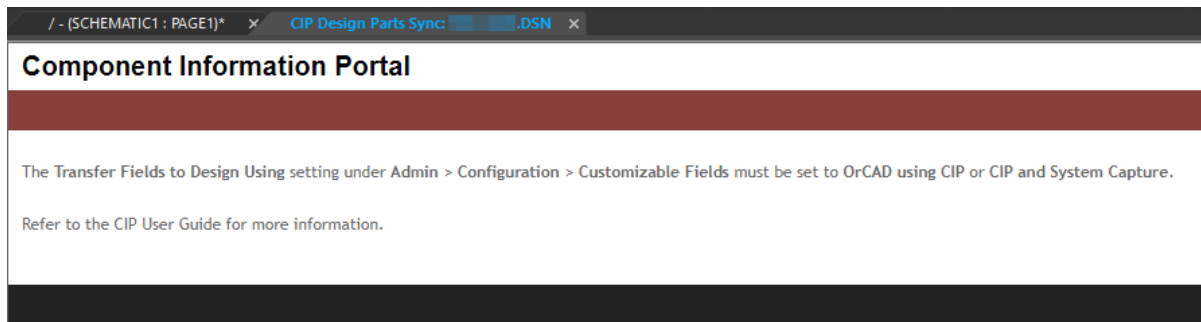
Launch Design Parts Sync from top CIP Menu

- b. **Schematic Page** - Right-click (RMB) inside an open schematic design page, select **More... > CIP: Design Parts Sync**.



Launch Design Parts Sync from RMB Open Schematic Page

- c. Design Parts Sync will not load if you have not set [Transfer Fields to Design](#) to **OrCAD using CIP** or **CIP and System Capture**. It must be set to one of those.



Design Parts Sync will not load if using a non-CIP option to Transfer Fields to Design

3. The Design Parts Sync will open its [Summary page](#) in a new or existing tab (if you've launched the feature and still have the tab open).

To Sync selected design parts with the CIP database, one part number at a time, with user interaction,

1. From an open Design Parts Sync tab, select the desired parts (Part References aka RefDes) to sync using the check boxes to the left of the **Part Sync Status** column. Each time you select a part, it will automatically select all other Part References that use the same CIP

PART_NUMBER. Select/deselect the top check box to select/deselect All checkboxes that are able to be checked. The default select all/none behavior is defined in the [User Settings](#).

Note: Design Parts that are **Found - Up to Date**, **Found - Up to Date (TMP)**, etc. will not be selectable because their CIP transferred fields are already up to date so there is no action to take.

- Click the **Sync** button to display the [Processing page](#) and begin processing the selected parts.
- The Processing page shows the first CIP PART_NUMBER, its Component View, and all the design's Part References (RefDes) that use the PART_NUMBER. The table shown is similar to the [Part Status Report](#), except that the fields shown are specific to the (Component) View of the PART_NUMBER shown, and the top row of the table shows the field data from CIP (i.e. the correct data). The Part Sync Status shows the current sync status of each placed part and all Out of Date fields are highlighted as shown. All parts are selected by default, but individual items can be deselected if you do not wish to sync them at this time. Click **Update Selected** to sync the selected parts on the design with the data from CIP, or click **Skip Part** to skip this group of parts and go to the next one.
- The next group of parts will appear and you'll be given the same options. Repeat step #3 until you've processed all selected parts.

Note: At any time, you may click **Return to Summary** to end the process and return to the [Summary page](#).

Component Information Portal

Design Parts Sync - Processing (1 of 3) ?

View: Capacitors
PART_NUMBER: [EMA-00000374V22](#)

33.3%
1 of 3

Update Selected **Skip Part** **Return to Summary**

<input checked="" type="checkbox"/>	Part Sync Status	Part Reference	Revision	Description	Lifecycle	PCB Footp
			2.0	CAP, Ceramic, SMD, 0.01 uF, 20 %, 16 V, 0603	Deprecated	CAPC1608
<input checked="" type="checkbox"/>	Found - Out of Date	C13	2.0	CAP, Ceramic, SMD, 0.01 uF, 20 %, 16 V, 0603	In Design	CAPC1608
<input checked="" type="checkbox"/>	Found - Out of Date	C14	2.0	CAP, Ceramic, SMD, 0.01 uF, 20 %, 16 V, 0603	In Design	CAPC1608

Design Parts Sync - Sync View

- If a PART_NUMBER in CIP contains multiple PCB_Footprint values and any of the design's parts have a footprint that does not match any of the values in CIP, it will be outlined in **red** and you will need to select which PCB_Footprint to use from the pick list.

The **Update Selected** button will be disabled until you choose a valid PCB_Footprint. The **Skip Part** and **Return to Summary** will remain available.

Note: If this scenario occurs when using **Auto Sync**, the primary (first) footprint in the list of PCB_Footprint values in CIP will be used.

<input checked="" type="checkbox"/>	Part Sync Status	Part Reference	Revision	Description	Lifecycle	PCB Footprint	Value
				IC OSC SGL TIMER 100KHZ 8VSSOP	TMP	mua08a-l_1,mua08a-m_1,mua08a_1	LMS
<input checked="" type="checkbox"/>	Found - Out of Date (TMP)	U5		IC OSC SGL TIMER 100KHZ 8VSSOP	TMP	mua08a-l_1_new	LMS

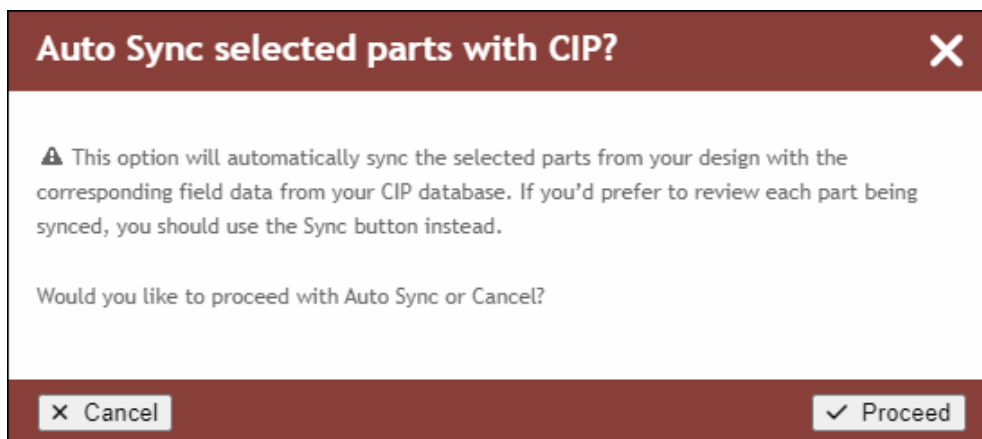
- The [Summary page](#) will be refreshed, showing the applied changes in the [Part Status Report](#).

To Automatically Sync all selected design parts with the CIP database, without user interaction,

- From an open Design Parts Sync tab, select the desired parts to sync using the check boxes to the left of the **Part Sync Status** column. Each time you select a part, it will automatically select all other Part References that use the same CIP PART_NUMBER. Select/deselect the top check box to select/deselect All checkboxes that are able to be checked. The default select all/none behavior is defined in the [User Settings](#).

Note: Design Parts that are **Found - Up to Date**, **Found - Up to Date (TMP)**, etc. will not be selectable because their CIP transferred fields are already up to date so there is no action to take.

- Click the **Auto Sync** button.
- The confirmation pop-up dialog will appear, since this action may take a while and there is no user interaction. Review the confirmation. Click **✓ Proceed** to continue with Auto Sync or click **✗ Cancel** or **✗** to cancel.




- Once completed, the [Summary page](#) will be refreshed, showing the applied changes in the [Part Status Report](#).

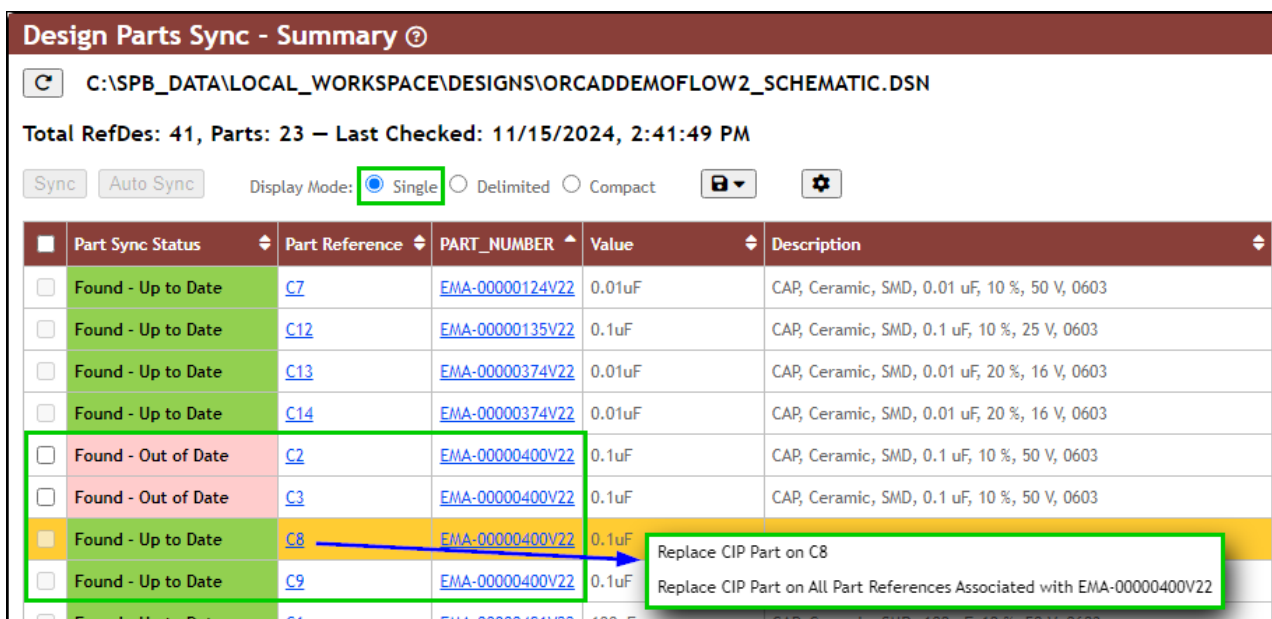
4.12.4 Part Replacement

The Part Replacement page will launch in a Design Parts Sync tab and can be invoked from a selected part on the schematic design or from the [Summary page](#) of Design Parts Sync. It allows the user to select a part RefDes or set of RefDes and choose a replacement part from the CIP database.

Note: This feature does not replace parts on CIS Variants. When used on a design with CIS Variants, replacing a part will only replace the parts on the core design.

Click the  link in the title bar to open the User Guide to this section.

To launch Part Replacement from Design Parts Sync,

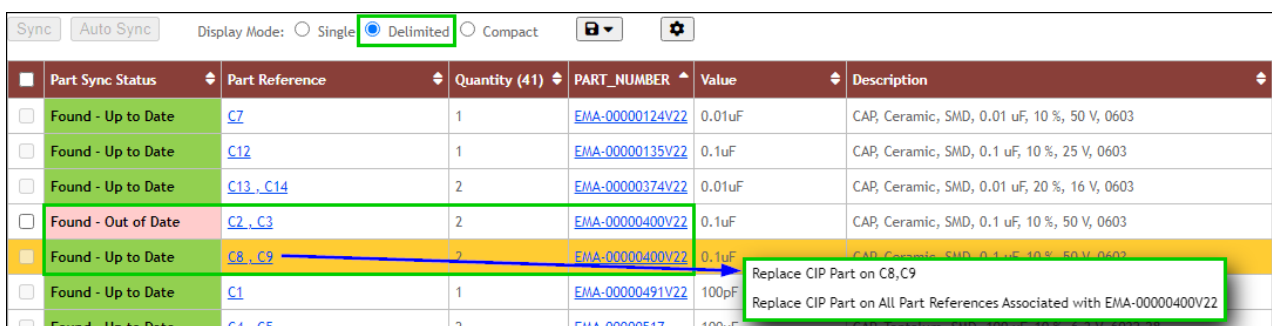


Design Parts Sync - Summary
 C:\SPB_DATA\LOCAL_WORKSPACE\DESIGNS\ORCADEMOFLOW2_SCHEMATIC.DSN
 Total RefDes: 41, Parts: 23 – Last Checked: 11/15/2024, 2:41:49 PM
 Sync Auto Sync Display Mode: Single Delimited Compact

Part Sync Status	Part Reference	PART_NUMBER	Value	Description
Found - Up to Date	C7	EMA-00000124V22	0.01uF	CAP, Ceramic, SMD, 0.01 uF, 10 %, 50 V, 0603
Found - Up to Date	C12	EMA-00000135V22	0.1uF	CAP, Ceramic, SMD, 0.1 uF, 10 %, 25 V, 0603
Found - Up to Date	C13	EMA-00000374V22	0.01uF	CAP, Ceramic, SMD, 0.01 uF, 20 %, 16 V, 0603
Found - Up to Date	C14	EMA-00000374V22	0.01uF	CAP, Ceramic, SMD, 0.01 uF, 20 %, 16 V, 0603
Found - Out of Date	C2	EMA-00000400V22	0.1uF	CAP, Ceramic, SMD, 0.1 uF, 10 %, 50 V, 0603
Found - Out of Date	C3	EMA-00000400V22	0.1uF	CAP, Ceramic, SMD, 0.1 uF, 10 %, 50 V, 0603
Found - Up to Date	C8	EMA-00000400V22	0.1uF	CAP, Ceramic, SMD, 0.1 uF, 10 %, 50 V, 0603
Found - Up to Date	C9	EMA-00000400V22	0.1uF	CAP, Ceramic, SMD, 0.1 uF, 10 %, 50 V, 0603

Right-click options:
 Replace CIP Part on C8
 Replace CIP Part on All Part References Associated with EMA-00000400V22

Single Display Mode - Right-click options to Replace Single RefDes or All RefDes Associated with the PN



Sync Auto Sync Display Mode: Single Delimited Compact

Part Sync Status	Part Reference	Quantity (41)	PART_NUMBER	Value	Description
Found - Up to Date	C7	1	EMA-00000124V22	0.01uF	CAP, Ceramic, SMD, 0.01 uF, 10 %, 50 V, 0603
Found - Up to Date	C12	1	EMA-00000135V22	0.1uF	CAP, Ceramic, SMD, 0.1 uF, 10 %, 25 V, 0603
Found - Up to Date	C13, C14	2	EMA-00000374V22	0.01uF	CAP, Ceramic, SMD, 0.01 uF, 20 %, 16 V, 0603
Found - Out of Date	C2, C3	2	EMA-00000400V22	0.1uF	CAP, Ceramic, SMD, 0.1 uF, 10 %, 50 V, 0603
Found - Up to Date	C8, C9	2	EMA-00000400V22	0.1uF	CAP, Ceramic, SMD, 0.1 uF, 10 %, 50 V, 0603
Found - Up to Date	C1	1	EMA-00000491V22	100pF	CAP, Ceramic, SMD, 100 pF, 10 %, 50 V, 0603
Found - Up to Date	C4, C5	2	EMA-00000517	100uF	CAP, Electrolytic, SMD, 100 uF, 10 %, 50 V, 0603

Right-click options:
 Replace CIP Part on C8,C9
 Replace CIP Part on All Part References Associated with EMA-00000400V22

Delimited Display Mode - Right-click options to Replace Grouped RefDes or All RefDes Associated with the PN

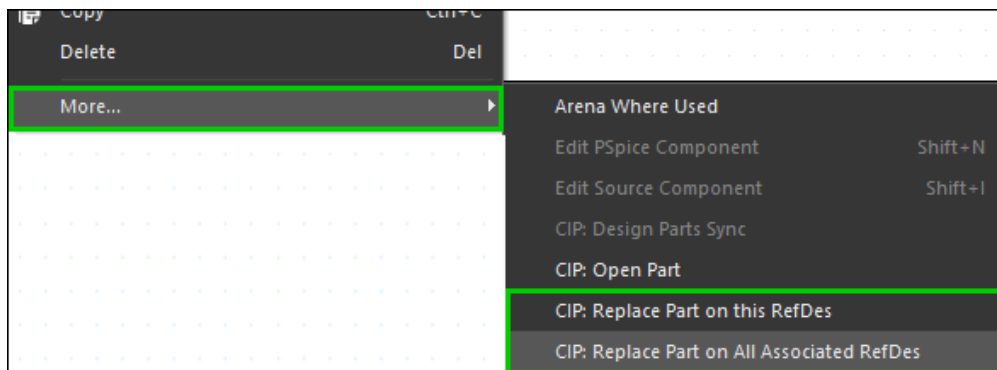
1. Open a schematic design page, otherwise Design Parts Sync will be disabled.
2. [Launch Design Parts Sync](#) from Capture's top menu bar or from the right-click (RMB) menu on a schematic design page.

3. Select the **Delimited** or **Compact** Display Mode to group RefDes with the same company Part Number and [Part Sync Status](#). Separate rows/groups will be shown for RefDes that have the same part number, but different **Part Sync Status**.
 - a. The figures above show that C2, C3, C8, and C9 all use the same Part Number. However, C2/C3 are **Found - Out of Date** and C8/C9 are **Found - Up to Date** so there are two groups of RefDes for the Part Number in question.

Note: It is recommended that you [Sync Parts on Design with CIP Database](#) before replacing parts with this method, as it will improve the groupings if more parts are **Found - Up to Date**.
4. Right-click (RMB) on a row for a RefDes or group of RefDes to be replaced, which will display a context menu with options to:
 - a. **Replace CIP Part on <RefDes>** - This depends on the Display Mode (Single, Delimited, Compact) - e.g. **Replace CIP Part on C8** (Single), **Replace CIP Part on C8, C9** (Delimited), or **Replace CIP Part on C8-C9** (Compact).
 - b. **Replace CIP Part on All Part References Associated with <PN>** - This selects all RefDes that use the same PN and it does not depend on the Display Mode. - e.g. **Replace CIP Part on All Part References Associated with EMA-0000400V22**.
5. Click on the desired replacement option to open the [Part Replacement](#) page in the existing Design Parts Sync tab.

To launch Part Replacement from a Schematic Design Page,

1. Open a schematic design page, otherwise Part Replacement options will be disabled.
2. Right-click (RMB) on a part page and select **More...** which will display a context menu with options to:
 - a. **CIP: Replace Part on this RefDes** - Select this to only replace the selected RefDes (e.g. R1).
 - b. **CIP: Replace Part on All Associated RefDes** - Select this to replace All Associated RefDes (e.g. R1, R3-R7, R10, etc.) that use the same CIP part.



Launch Part Replacement from RMB on Selected Part

- Click on the desired replacement option to open the [Part Replacement](#) page in a new or existing Design Parts Sync tab (if you've launched the feature and still have the tab open).

To Filter on Potential Replacements and Select a Replacement Part,

Design Parts Sync - Part Replacement ⓘ

Affected Part References to be replaced: C8,C9

Replace Return to Summary

Component View Source Package PCB Footprint Value

Capacitors CAP CAPC1608X90N 0.1uF Apply

Part Reference	PART_NUMBER	Description	Lifecycle	Part Type	PCB Footprint	Value	ALT_SYMBOLS	CLASS	Package Size	Temperature Coeff
Design Parts to Replace										
C8,C9	EMA-0000400V22	CAP, Ceramic, SMD, 0.1 uF, 10 %, 50 V, 0603	Unreleased	EMA\Ceramic\SMD\0603	CAPC1608X90N	0.1uF		DISCRETE	0603	X7R
Select a Replacement Part										
	EMA-00001384V22	CAP, Ceramic, SMD, 0.1 uF, 80/20 %, 50 V, 0603	Unreleased	EMA\Ceramic\SMD\0603	CAPC1608X90N	0.1uF		DISCRETE	0603	Y5V
	EMA-00001725V22	CAP, Ceramic, SMD, 0.1 uF, 80/20 %, 50 V, 0603	Unreleased	EMA\Ceramic\SMD\0603	CAPC1608X90N	0.1uF		DISCRETE	0603	Y5V
	EMA-00001859V22	CAP, Ceramic, SMD, 0.1 uF, 80/-20 %, 25 V, 0603	Unreleased	EMA\Ceramic\SMD\0603	CAPC1608X90N	0.1uF		DISCRETE	0603	Y5V

Design Parts Sync - Part Replacement - Find a Replacement Part

- Initially, the **Component View**, **Source Package** ([Source Library and Source Package](#)), **PCB Footprint**, and **Value** are populated with the values from the part's RefDes to be replaced. This set of values is used for the initial filter that is applied automatically and lists potential replacement parts (from your CIP database) that contain all values. The potential replacement parts are listed under the **Select a Replacement Part** row. If the desired replacement part is not currently shown in the replacement list, update or clear the field filters as desired.

Note: Some of these fields may not be editable if they are set as **Required** to match the parts being replaced. If that is the case, a user with permission can view the Design Parts Sync tab under the Admin > Configuration page.

- Click **Apply** to filter on the field values shown, which will refresh the list of potential replacement parts.
- Review the list of replacements and repeat the steps above until a suitable replacement is shown.

Design Parts Sync - Part Replacement ⓘ

Affected Part References to be replaced: C8,C9

Replace Return to Summary

Component View Source Package PCB Footprint Value

Capacitors CAP CAPC1608X90N 0.1uF Apply

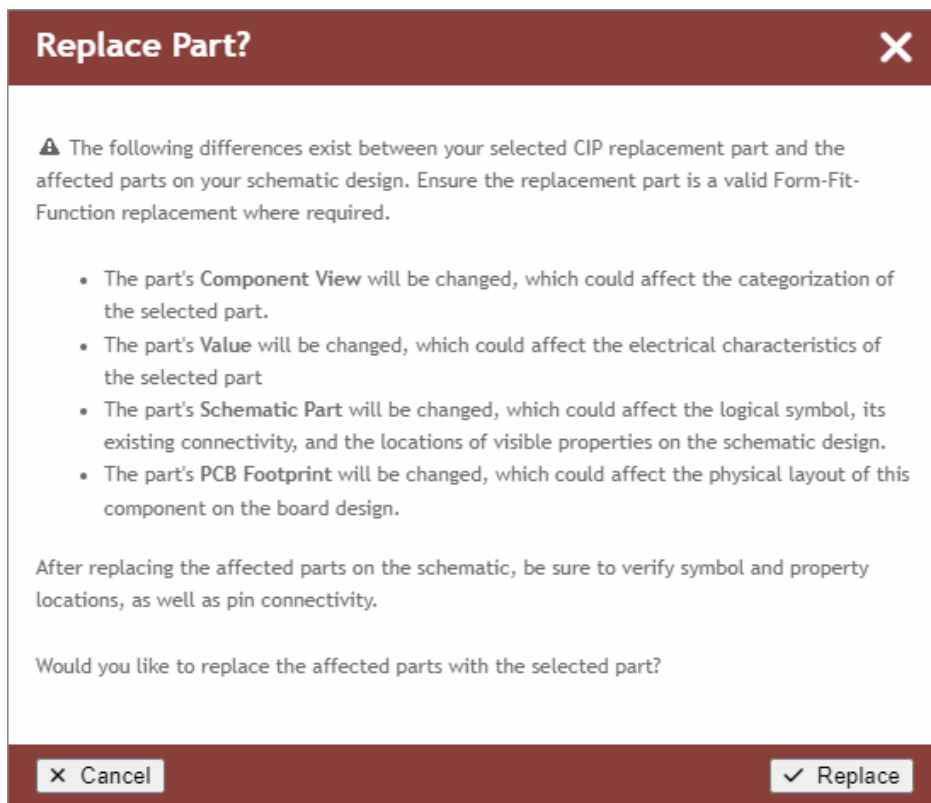
Part Reference	PART_NUMBER	Description	Lifecycle	Part Type	PCB Footprint	Value	ALT_SYMBOLS	CLASS	Package Size	Temperature Coef
Design Parts to Replace										
C8,C9	EMA-0000400V22	CAP, Ceramic, SMD, 0.1 uF, 10 %, 50 V, 0603	Unreleased	EMA\Ceramic\SMD\0603	CAPC1608X90N	0.1uF		DISCRETE	0603	X7R
Select a Replacement Part										
	EMA-00001384V22	CAP, Ceramic, SMD, 0.1 uF, 80/20 %, 50 V, 0603	Unreleased	EMA\Ceramic\SMD\0603	CAPC1608X90N	0.1uF		DISCRETE	0603	Y5V
	EMA-00001725V22	CAP, Ceramic, SMD, 0.1 uF, 80/20 %, 50 V, 0603	Unreleased	EMA\Ceramic\SMD\0603	CAPC1608X90N	0.1uF		DISCRETE	0603	Y5V
	EMA-00001859V22	CAP, Ceramic, SMD, 0.1 uF, 80/-20 %, 25 V, 0603	Unreleased	EMA\Ceramic\SMD\0603	CAPC1608X90N	0.1uF		DISCRETE	0603	Y5V

Replace part using EMA-00001725V22

Design Parts Sync - Part Replacement - Select a Replacement Part

4. Select the desired replacement part in one of two ways:
 - a. Click anywhere on the row of the desired part number, except the underlined part number link (PART_NUMBER in the example above). This will outline the part in green, and if not hovering over the part, will also highlight the cells in **green**. Field values that do not match the part number of the affected RefDes will remain highlighted in light **red**.
 - b. Right-click (RMB) on the row of the desired part number, which will bring up an option to replace the part.
5. Replace the part based on how you selected it in 4a/4b:
 - a. If you clicked on the part (4a), click the **Replace** button next to the **Return to Summary** button.
 - b. If you right-clicked on the part (4b), click the context menu to **Replace part using <Selected PN>**.
6. If all of values from the four replacement filter fields (1, above) match between the original part number being replaced and the selected replacement part, the replacement will proceed. However, if any of the values do not match between the original and replacement part, you will be prompted with a warning asking you to confirm your replacement choice. Click to confirm the part replacement or to return to replacement part list.

Note: A warning will never appear if all of your **Part Replacement Filter Rules** in the **Admin > Configuration > Design Parts Sync** page are set to **Required** because they will already match, since you won't be able to change the initial filter of potential replacements. However, if even one of the fields is set to **Optional (Warn)**, you could select a replacement that doesn't match (e.g. select a different PCB Footprint), in which case you will be warned as shown. Only the applicable warning messages will be displayed.



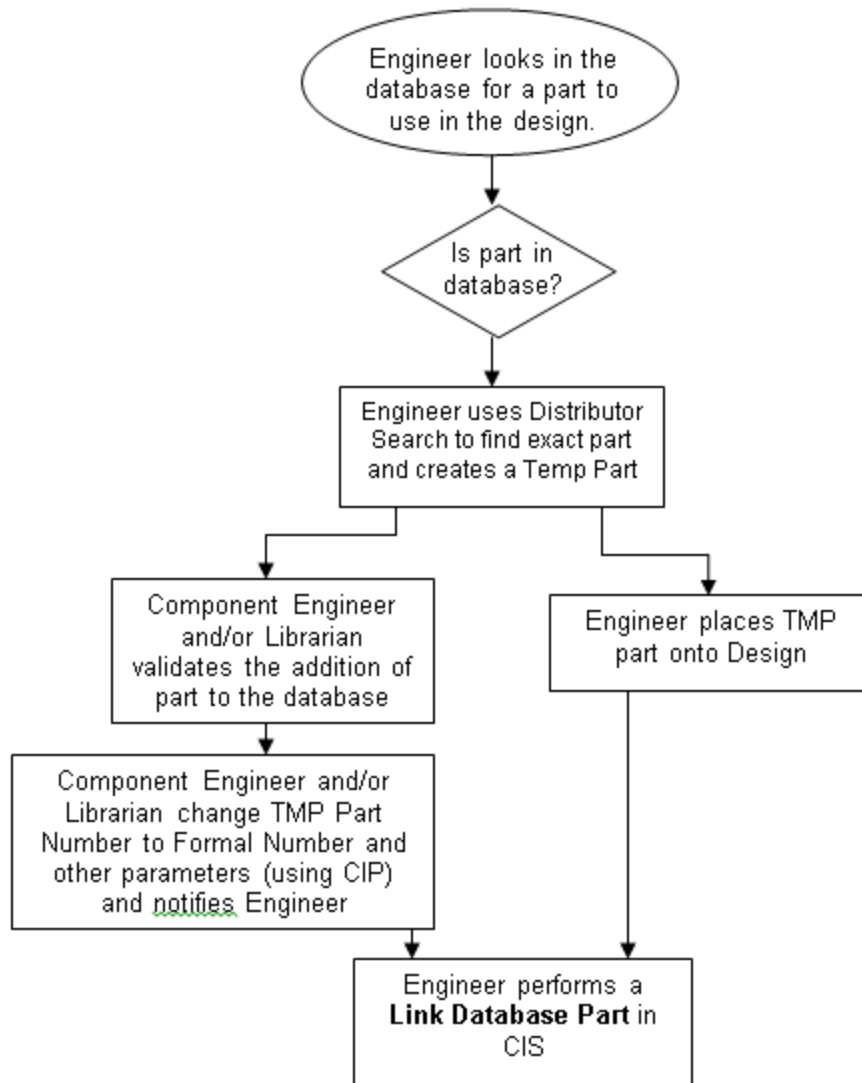
Part Replacement Confirmation

4.13 Sample New Part Process Using CIP

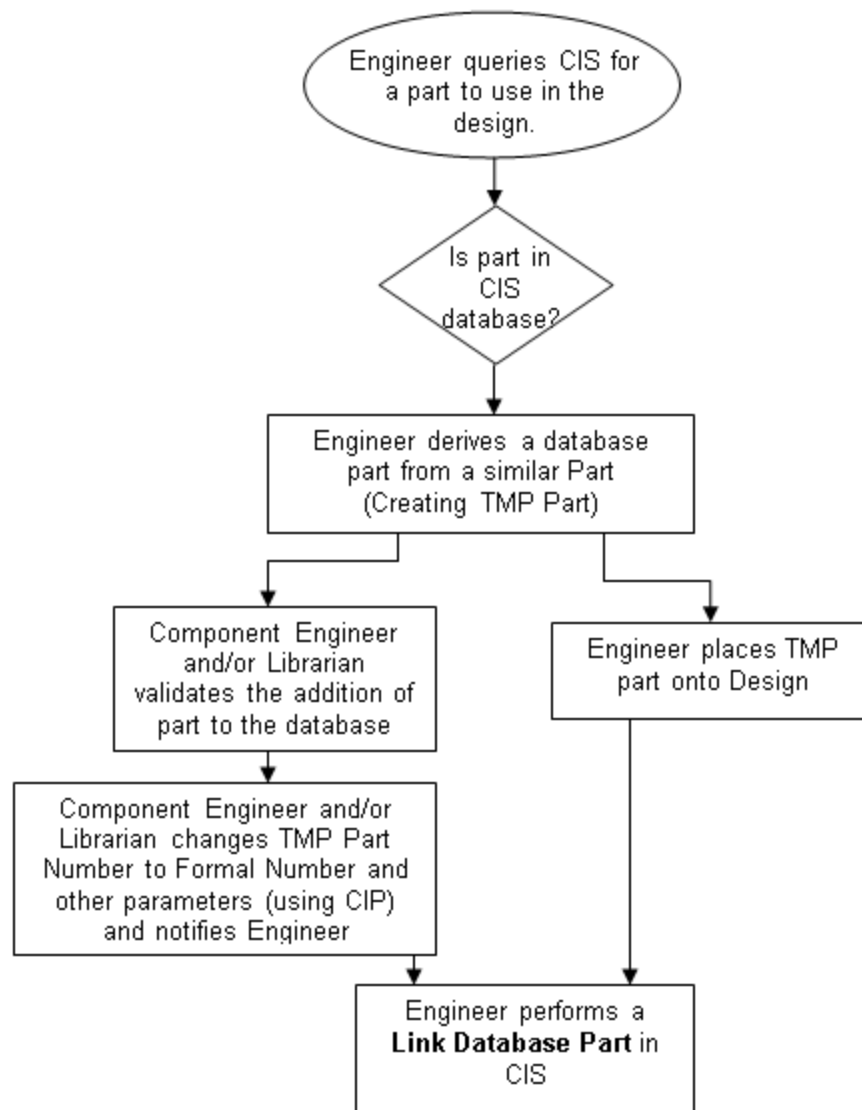
A typical part process includes the following steps, with exceptions or variations depending on a company's part building methodology.

1. Engineer creates temporary part in CIS; CIS assigns part a TMP part number
2. Engineer notifies Librarian of newly created part
3. Librarian checks the part and assigns it a formal company part number if part doesn't already exist.
4. Librarian enters the formal part number into the CIS database using CIP
5. Librarian notifies the engineer of the formal part number
6. Engineer performs a Link Database Part within the CIS design to update the TMP part to the formally accepted part number

Note: If the part already exists, the librarian will map the temporary part to the existing part number.



Sample Flow with New TMP Part



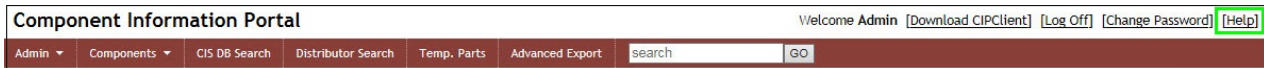
Sample Flow with Derive Part

4.14 Help and Support

The CIP User Guide is available to any user logged into CIP. The CIP User Guide is a .PDF document that can be saved locally on the user's machine after it has been opened.

To access the guide

- Click the **[Help]** link in the upper right-hand corner of the CIP screen, next to the **[Change Password]** link. Refer to the figure below.



[\[Help\] Link to Access the CIP User Guide](#)

4.15 Technical Support

Contact your local channel partner with questions on technical support.

5 Appendix: Part Type and Description Standards

Information provided in Appendix: [Part Type Standard](#) and [Description Standards](#) lists the default build rules that are created in each component table of the CIS database. Companies who have purchased CIP may adopt these as their own company standards for Description and Part Type. Instructions that explain how to modify the build rules are provided in the [Block Type](#) sections [Editing a Rule](#) and [Using a Rule](#).

Text enclosed within the "<" and ">" symbols indicates the field value used to populate the Part Type or Description string.

5.1 Part Type Standard

The Part Type delimiter shall be the backslash "\ " character. For fields that do not consist of a value (i.e. empty fields), "--" shall be used.

Each of the 12 CIP tables has a default Part Type standard. Default Part Type standards and examples are shown below.

Capacitors:

<Di el ect r i c Type>\ <Package Type>\ <Package Si ze>

Example:

Ceramic\SMD\1206
Ceramic\TH\5.1x3.2x1.0 mm
Tantalum\SMD\2012-15

Connectors:

<Devi ce Type>\ <Package Type>

Example:

Header\TH

Crystals and Oscillators:

<Devi ce Type>\ <Package Type>

Example:

OSC\SMD
XTAL\SMD

Diodes:

<Device Type>\ <Package Type>

Example:

LED\SMD
Schottky\SMD
Zener\SMD

ICs:

<Package Type>\ <Device Type>\ <Function>

Example:

SMD\Analog Devices\Optocoupler
SMD\Converter\DC-DC Converter
TH\Logic\Flip Flop

Inductors:

<Device Type>\ <Package Type>

Example:

Ferrite Bead\SMD

Misc:

<Device Type>\ <Package Type>

Example:

Testpoint\TH

Relays:

<Package Type>

Example:

TH
SMD

Resistors:

<Package Type>\ <Material>\ <Package Size>

Example:

SMD\Thick Film\0402
SMD\Thin Film\0805

Switches:

<Switch Type>\ <Package Type>\ <Switch Configuration>

Example:

Light Touch\SMD\SPST

Transformers:

<Package Type>

Example:

SMD
TH

Transistors:

<Device Type>\ <Package Type>

Example:

BJT\SMD
Darlington\TH

5.2 Description Standards

The Description delimiter shall be the comma-space “,” string. For fields that do not consist of a value (i.e. empty fields), “--” shall be used.

Each of the 12 CIP tables has a default Description standard. Default Description standards and examples are provided below.

Capacitors:

CAP, <Dielectric Type>, <Package Type>, <Value>, <Tolerance>, <Rated Voltage>, <Package Size>

Example: CAP, Ceramic, SMD, 6800 pF, 10 %, 10 V, 0201

Connectors:

CONN, <Device Type>, <Value>, <Number of Pins>, <Package Type>

Example: CONN, Header, 15-24-7240, 24, TH

Crystals and Oscillators:

<Device Type>, <Package Type>, <Value>, <Frequency Tolerance>

Example: OSC, SMD, 13.5 MHz, +/- 100ppm

Diodes:

DIO, <Device Type>, <Value>, <Rated Current>, <Rated Voltage>, <Rated Power>, <Package Size>

Example: DIO, Zener, BZT52C3V3, --, 3.3 V, 500 mW, SOD-123

ICs:

IC, <Device Type>, <Function>, <Value>, <Package Size>

Example: IC, Memory Devices, PROM, XC18V01, SOIC-20

Inductors:

<Device Type>, <Value>, <Tolerance>, <Rated Current>, <Package Size>

Example: Inductor, 220 nH, 5.0 %, 0.3 A, 0603
Ferrite Bead, 120 Ohm, 25 %, 0.2 A, 0603

Misc:

MISC, <Device Type>, <Value>, <Package Type>, <Package Size>

Example: MISC, Testpoint, 5000 Red, TH, 2.5x2.5x4.6 mm

Relays:

RELAY, <Value>, <Coil Resistance>, <Coil Voltage Maximum>, <Contact Current>, <Package Type>

Example: Relay, G5LA-14, 69 Ohm, 5 VDC, 5 A, TH

Resistors:

RES, <Material>, <Value>, <Tolerance>, <Rated Power>, <Package Type>, <Package Size>

Example: RES, Thick Film, 240 kOhm, 5.0 %, 1/16 W, SMD, 0402

Switches:

SW, <Switch Type>, <Value>, <Switch Configuration>, <Number of Pins>, <Package Type>

Example: SW, Light Touch, EVQPH, SPST, 4, SMD

Transformers:

XFMR, <Value>, <Primary Voltage>, <Secondary Voltage>, <Frequency>, <Package Type>

Example: XMFR, 3FS-310, 115 V, 5/10 V, 50/60 Hz, TH

Transistors:

XSTR, <Device Type>, <Polarity>, <Value>, <Rated Voltage>, <Rated Current>, <Package Type>

Example: XSTR, BJT, NPN, KSH29C, 100 V, 1.0 A, SMD

6 Appendix: Configuring the CIS .DBC File

The CIP database is used by both the CIP web application and Capture CIS. When configuration settings are modified (as described in sections [Customize CIP Fields](#) or [Component Views](#)) Capture CIS is unaware of the changes. Settings in the CIS .DBC file tell Capture CIS how to interpret data found in the database and how to properly control the display in CIS Explorer. When you create or update the DBC configuration file you must open the CIS configuration tool that is available in Capture CIS.

Note: The CIS .DBC File is not used if you use CIP to place parts and your [Transfer Fields to Design](#) option is set to **OrCAD using CIP** or **CIP and System Capture**.

Five DBC configuration files are pre-installed with the CIP web application. Each provide a different set of information for CIS Explorer as defined below.

- CIP-E V7.9 CIS DB.DBC

This DBC file is configured with out-of-the-box settings for CIP that includes distributor part information in the manufacturer display. Each distributor part information is shown on a

separate line along with the corresponding manufacturer part information. If any of the user fields or other fields have an alias to another name, you will need to update the DBC file using CIS configuration option in Capture CIS.

- CIP-E V7.9 CIS DB_NODISTRIB.DBC

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

- CIP-E V7.9 CIS DB_WITHCOMPLIANCE.DBC

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

- CIP-E V7.9 CIS DB_NORELATIONAL.DBC

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

- CIP-E V7.9 CIS DB_WITHCOMPLIANCE_NOSILICONEXPERTPNS.DBC

This DBC file is configured with out-of-the-box settings for CIP with Compliance Module log in enabled with all distributor part information but without Silicon Expert Part Number. Use this DBC file if you want to include distributor part numbers in a BOM but do not wish to include Silicon Expert part numbers.

The CIS .DBC configuration file is generally shared by all CIS Users. Only one .DBC file needs to be modified and placed in a network location to provide read-only access for all CIS users. Consult with your project leader or librarian before modifying the .DBC file.

This Appendix includes three sub-sections that explain how to update the DBC file and create a new file using the CIS configuration tool.

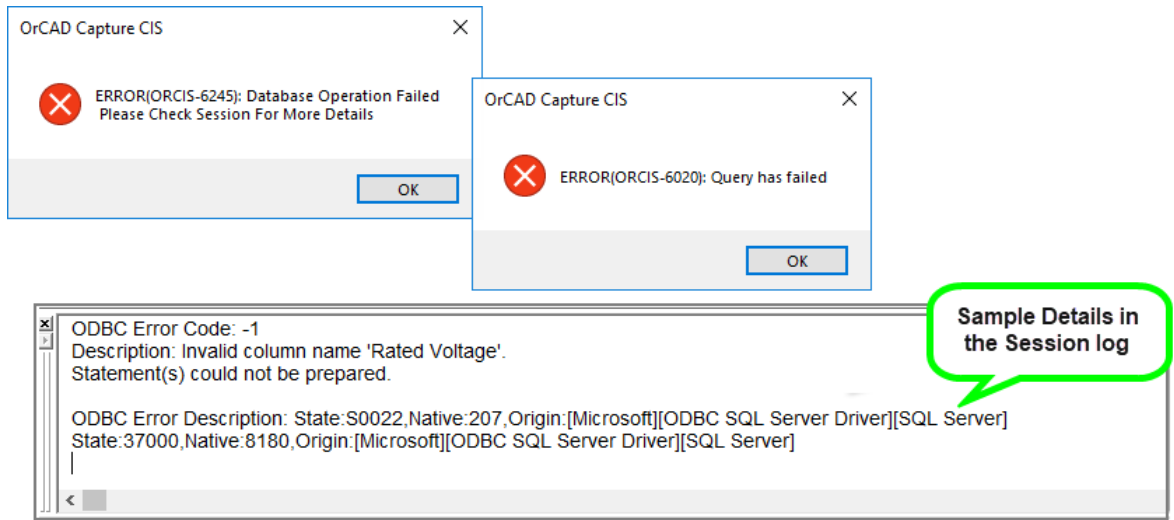
- Refresh DBC file
- Update DBC file
- Create DBC file using CIS Configuration Wizard

Refresh DBC file

When changes to fields are minor and affect fields in component views, a simple refresh of the DBC file is required. The configuration of the CIP/CIS .DBC file may need to be refreshed or updated after the following situations occur:

- The display name of an enabled field changes as described in [Customize Component Fields](#).
- One or more new fields are added as described in [Customize Component Fields](#) or [Component Views](#)

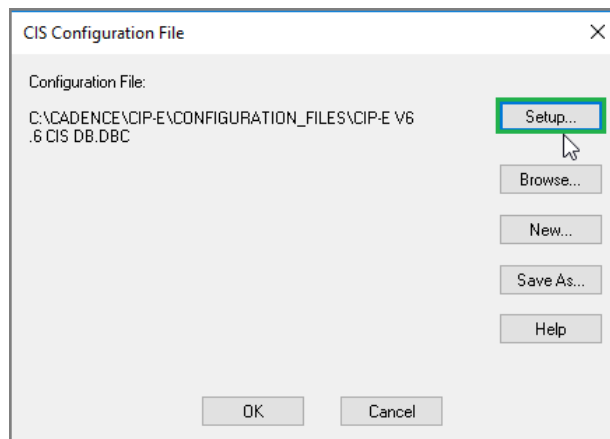
When component fields are modified without updating the DBC file, CIS users may see SQL errors in their Session log as shown in following image.



Error message in the Capture CIS > Windows > Session log

To refresh the DBC:

1. Open Cadence OrCAD Capture CIS and select **Options > CIS Configuration**.
2. Select the **Setup** button. Then select **OK**. When setup opens select **OK** to save the settings.



CIS Configuration Setup

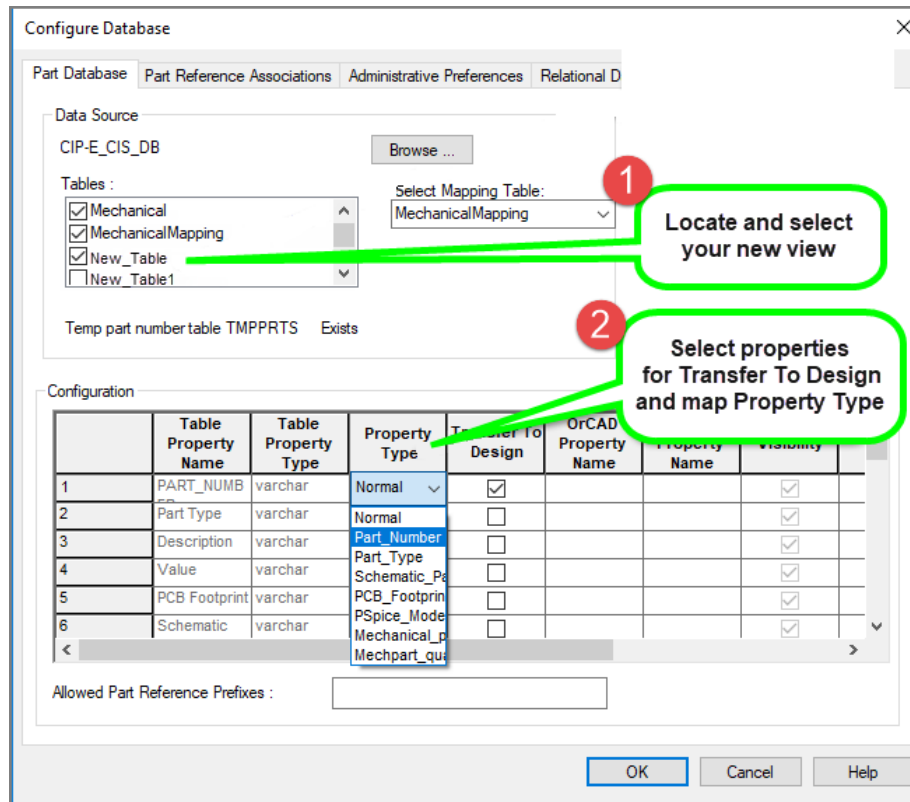
Update DBC file

When changes to fields are more significant, e.g. addition or change of a view, a simple refresh of the DBC file is insufficient to resolve errors identified in the Session log.

To update the DBC:

1. Open Cadence OrCAD Capture CIS and select **Options > CIS Configuration**.

2. Select the **Setup** button. The **Configure Database** window appears.



Configure Database Configuration file

3. Locate the View or Table you want to add and select the check box to enable it for configuration. Views and table that are shown depends on permissions set in your SQL database. You may see table names prepended with "CIP_". These are used by CIP web application. DO NOT select any of these tables.
4. Review the list of properties and configure the fields you want to Transfer To Design. Make sure you map the Property Type for the following fields:
- Part_Number
 - Part_Type
 - Schematic Part
 - PCB_Footprint
5. You may make other changes to match your company Schematic guidelines. Refer to the Cadence OrCAD Capture CIS User's Guide (Open CIS, click Help > OrCAD Capture CIS Help) for more information regarding Creating a Configuration File.
6. When you complete all your changes, click **OK** to save the changes and then **OK** to exit the tool.

Create DBC file using CIS Configuration Wizard

A new configuration of the CIP/CIS .DBC file that may be required is dependent on the type of modification. CIS Configuration tools in Capture will not refresh changes made to the relational table, which includes manufacturer and distributor fields.

Changes to the manufacturer fields using [Customize Manufacturer Part Fields](#) or [Customize Component Manufacturer Part Fields](#) will require new DBC file. You may be able to remove the relational table settings and re-add them. If not, you can use the CIS Configuration Wizard to create a new DBC file.

Capture CIS utilizes the ODBC data source through its own database configuration (DBC) to access the database. The CIP Client installer automatically adds a data source name of CIP-E_CIS_DB.

CIS has a built-in wizard for creating DBC files. To ensure CIS can access both Table and Views in your database, make sure that you have "TABLES OPTION=TABLE,VIEW" included in the [Part Management] block of your Capture.ini file.

To create a new DBC file:

1. Read the entire procedure below before going through it so your database is configured correctly before you begin the steps.
2. Open Capture CIS.
3. Under **Options > CIS Configuration...**, click the **New...** button and then **Next**.
4. Select the appropriate Data Source (this list is pulled from your systems ODBC data sources, so if you don't see one for your database, you need to add an ODBC data source first). The default ODBC data source to use is **CIP-E_CIS_DB**. Then click **Next**.
5. At **Database Configuration: Step 2** display, map the tables into which you want to place parts. from in CIS. Click **Next**.

Note: The list that displays shows all tables in the SQL database. Select only view names that are already configured in CIP.

6. At **Database Configuration: Step 3 (1 of n)** display, you will repeat for each table you map in (5) (previous step). Select the appropriate table column to map **Part_Number** and **Value** to. Click **Next**.
7. At **Database Configuration: Step 4 (1 of n)** display, you will repeat for each table you map in (5). Select the appropriate table column to map **Part_Type** and **Schematic_Part** to. Click **Next**.
8. At **Database Configuration: Step 5 (1 of n)** display, you will repeat for each table you map in (5). Select the appropriate table column to map **PCB_Footprint** (optional) and **PSpice_Model** (optional) if you plan to use these fields. Click **Next**.
9. At **Database Configuration: Step 6** display, select which part properties you want to transfer to the schematic page when you place the part. Click **Next**.

10. At **Database Configuration: Step 7** display, click **Next**. If you want to use the ICA (Internet Component Assistant – aka ActiveParts) you must check the box for ICA Properties and select the fields to map to your database tables (*typically all of them*)
11. At **Database Configuration: Step 8** display, select the browsable properties (items which will be linked to external documents, like URLs or datasheets). Click **Next**.
12. At **Database Configuration: Step 9** display, select the visibility of the items you previously set to transfer to the design. Click **Next**.
13. At **Database Configuration: Step 10** display, select the keyed properties (normally only Value)
14. Click **Finish**. You will now be configured with the new .DBC file. You may continue to make changes to the DBC file before saving.
15. To add relational table (manufacturing information), select the **Relational Database** tab.
16. For each Primary Table Name configured, select **Part_Number** as the Primary Key then select either **CIS Manufacturer Parts** or **CIS Manufacturer Parts No Distributor** (depending on whether you want to show distributor information) for the Relational Table.
17. Click **OK** to save and then **OK** to exit.

7 Appendix: Warnings and Errors

There are several types of warnings and errors that CIP may present to a user after taking an action. Warnings generally alert the user of a potential issue, but allow the operation to continue if desired. Errors indicate there was an issue that prevented the operation from completing successfully. Many of these warnings and errors fall under the topics below.

- [BOM Import Errors](#)
- [CIP Scheduler Service is not running properly](#)
- [Transaction or Execution Errors and Timeouts](#)

7.1 BOM Import Errors

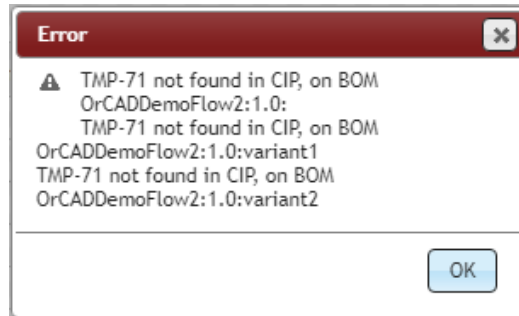
BOM Import errors could be caused by various factors, such as schematic design problems (e.g. duplicate refdes), unexpected network issues, downtime with the CIP database or web server, etc. When importing BOM Variants, CIP will report success or error messages for each variant selected for import. Additional details are output to the Capture Session Log.

Note: If Capture crashes or is closed during the BOM Import, no errors will be shown.

Once the issue is addressed, the user can choose to import the selected variants that were previously unsuccessful if they don't wish to import all variants.

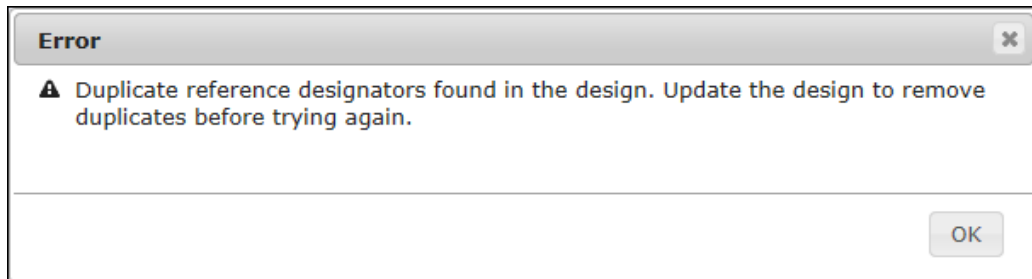
Part on the schematic design not found in CIP.

Remove the part from the design, create the missing part in CIP, or [use Part Replacement](#) to swap for a valid CIP part.



BOM Import - Design Part Not Found in CIP

Duplicate reference designators (RefDes) found in the schematic design.

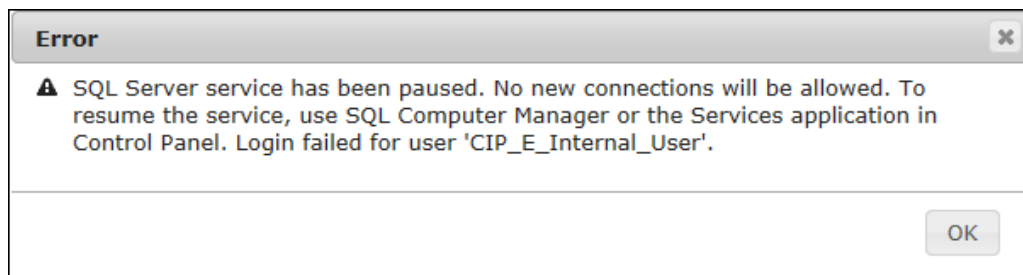


BOM Import - Duplicate RefDes

```
[CIP] : -----Importing BOM
[CIP] : Info - Fri Jan 03 2025 10:38:47 : Generating BOM for Variant Core_Design
[CIP] : Info - Fri Jan 03 2025 10:38:47 : Generating BOM for Variant EU
[CIP] : Info - Fri Jan 03 2025 10:38:47 : Generating BOM for Variant US
[CIP] : Info - Fri Jan 03 2025 10:38:47 : Validating schematic part numbers with CIP.
[CIP] : Error - Fri Jan 03 2025 10:38:47 : Duplicate reference designators found in the design. Update the design to remove duplicates before trying again.
```

BOM Import - Duplicate RefDes - Session Log

SQL Server was paused, stopped, or disconnected after clicking [Import DSN] and before clicking [Import BOM] from BOM Import window.

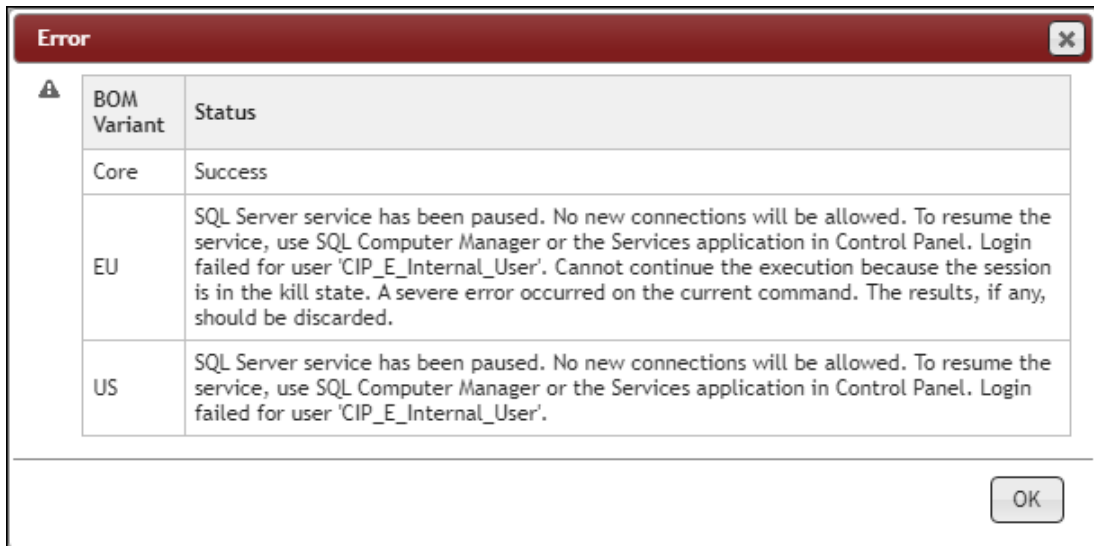


BOM Import - Error right after clicking Import DSN

```
[CIP] : -----Importing BOM
[CIP] : Info - Fri Jan 03 2025 09:53:25 : Generating BOM for Variant Core_Design
[CIP] : Info - Fri Jan 03 2025 09:53:25 : Generating BOM for Variant EU
[CIP] : Info - Fri Jan 03 2025 09:53:25 : Generating BOM for Variant US
[CIP] : Info - Fri Jan 03 2025 09:53:25 : Validating schematic part numbers with CIP.
[CIP] : Error - Fri Jan 03 2025 09:53:25 : SQL Server service has been paused. No new connections will be allowed. To resume the service, use SQL Computer Manager or the Services application in Control Panel.
Login failed for user 'CIP_E_Internal_User'.
```

BOM Import - Error right after clicking Import DSN - Session Log

SQL Server was paused, stopped, or disconnected after clicking [Import BOM] to begin importing.



BOM Import - Error during BOM Import

```
[CIP] : -----Importing BOM
[CIP] : Info - Fri Jan 03 2025 09:40:20 : Generating BOM for Variant Core_Design
[CIP] : Info - Fri Jan 03 2025 09:40:20 : Generating BOM for Variant EU
[CIP] : Info - Fri Jan 03 2025 09:40:20 : Generating BOM for Variant US
[CIP] : Info - Fri Jan 03 2025 09:40:20 : Validating schematic part numbers with CIP.
[CIP] : Error - Fri Jan 03 2025 09:40:20 : SQL Server service has been paused. No new connections will be allowed. To resume the service, use SQL Computer Manager or the Services application in Control Panel.
Login failed for user 'CIP_E_Internal_User'.
Cannot continue the execution because the session is in the kill state.
A severe error occurred on the current command. The results, if any, should be discarded.
```

BOM Import - Error during BOM Import - Session Log

7.2 CIP Scheduler Service not running

The CIP Scheduler Service is required to run the scheduled CIP tasks such as the Compliance Sync, Distributor Sync, etc. CIP Scheduler Service will run all URLs that are configured on the server. For example, if you use the URL <http://localhost/cip-e> and schedule a sync, then change the synchronization task by using a URL like <https://servername/cip-e>, both URLs will be saved. To remove the extra scheduled sync, you can log in with the original URL and disable synchronization.

To investigate the rest of the possible issues will require a person (most likely an IT personnel) who has permission to logs or directories located on the web server.

If you are not sure if the scheduled sync is working properly, please check and correct any of the following issues:

Possible Issue 1:

The CIP web application must be accessed through HTTPS, but the HTTPS certificate is not considered valid by the server. (For example, when you go to <https://servername/cip-e> while on the server, you get a warning about the certificate, and must click continue to proceed).

Solution: Install and use a valid certificate for the CIP web application, or do not force HTTPS access.

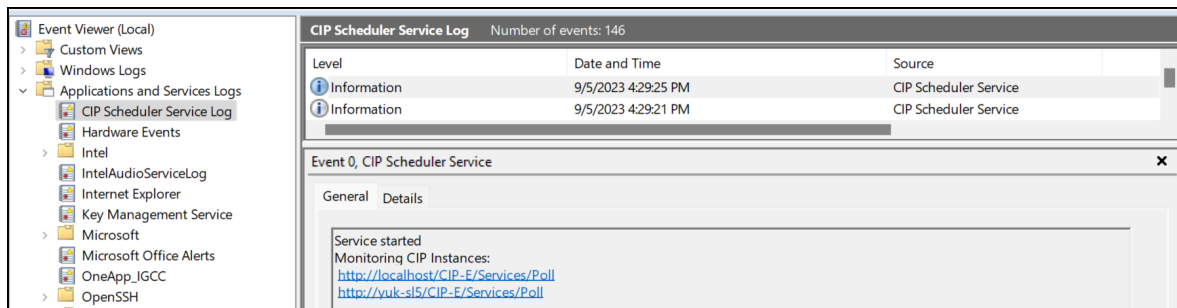
Possible Issue 2:

The URL that was used to schedule the sync is not the same as the URL normally used to access the CIP web application. This could happen if the web application was moved to a new server, or if modifications were made from multiple URLs.

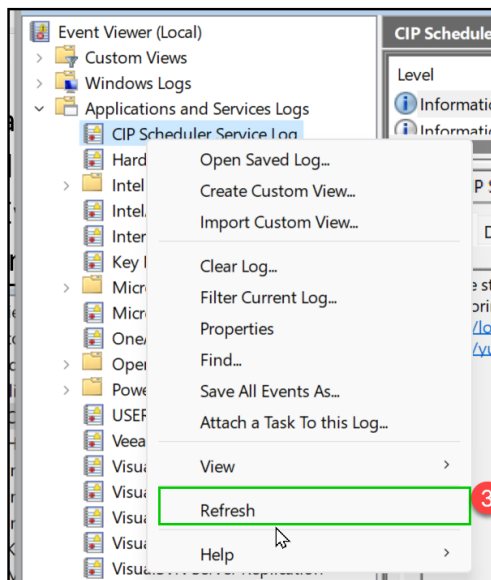
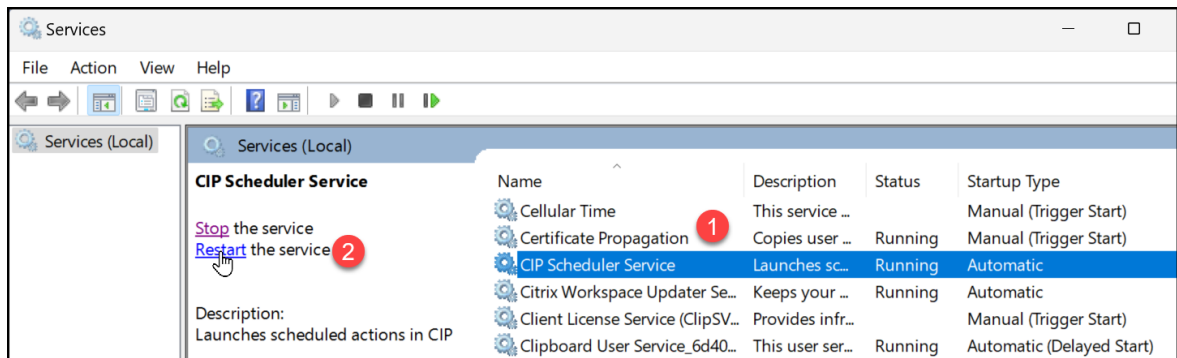
Solution 1: If possible, navigate to the original URL, disable the scheduled sync, and save. Then navigate to the new URL, enable the sync, and save.

Solution 2: Follow the step below to determine any URLs configured.

1. You will need to connect to the CIP server and view its event log.
2. Open Event Viewer > Applications and Services Logs > CIP Scheduler Service Log
3. See sample screenshot.



4. You may need to scroll down and select a different line to find the log that shows that service started.
5. If you cannot find it, you can do the following to trigger a refresh. (1) bring up Services, select CIP Scheduler Service, (2) click Restart and then (3) go to Event Viewer select Refresh. (See screenshot below)



6. If there are multiple URLs in the list, navigate to CIP using each base URL and disable the scheduled synchronization there.
7. If navigation to the undesired URL(s) is no longer possible, all URLs can be cleared out.
 - a. Navigate to C:
 \Windows\SysWOW64\config\systemprofile\AppData\Local\EMA_Design_Automation,_
 _In. This folder cannot be accessed without direct permission or administrative
 privileges. if attempting to navigate there directly results in a “folder not found” error,
 grant your username explicit permissions to the folder or access it using an elevated
 process (i.e. command prompt run as Administrator)
 - b. Delete all folders contained in the EMA_Design_Automation,_In folder.
8. Navigate to the correct CIP URL and schedule the sync.

7.3 Transaction or Execution Errors and Timeouts

Several factors could cause the CIP web application to return transaction or execution errors and/or timeouts, including but not limited to the following:

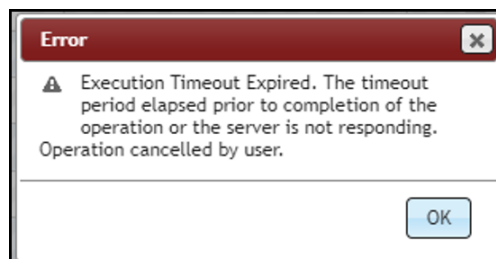
- Bulk operations that affect a large number of parts and/or fields in CIP. - E.g. Bulk Import, Bulk Rename, BOM Import, etc.
- Updates to the Admin > Configuration that potentially affects many component views, parts, or fields. - E.g. Modify a field for all views when your CIP contains a large number of views.
- Searches or other actions that return large amounts of data rows and fields. - E.g. Search returns 100's of parts and is displaying many part fields, MFR/MPN, MPN fields, and Dist/DistPN.
- Underpowered CIP Web Server or CIP Database Server, whether it be CPU, RAM, I/O, network connection, etc.
- Unallocated resources for your CIP Database (MS SQL) Server.
- Your CIP has a very large number of views, fields, part numbers, etc., that may cause operations to take an extended period of time to complete.

If you experience execution or transaction timeout errors such as the ones shown in the examples below, increasing your transaction timeout settings can help avoid such errors in the future. The default timeout is ~1 minute. Increasing the timeout will require a person (most likely IT personnel) who has permission to modify the CIP Web Application's web.config that is located on the web server.

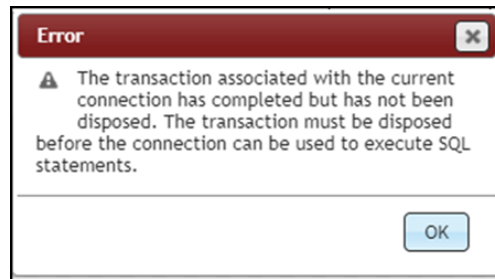
Add/Update the following three lines into your **web.config** file, after the `</appSettings>` section. The lines in the example below will update the timeout to 10 minutes and give long-running transactions more time to complete. You may need to tweak this setting depending on your environment, as the time required to complete different operations may vary. **Note:** Not every CIP operation is affected by this setting so updating it may not fix the issue in every case.

```
<system.transactions>  
  <defaultSettings timeout="00:10:00"/>  
</system.transactions>
```

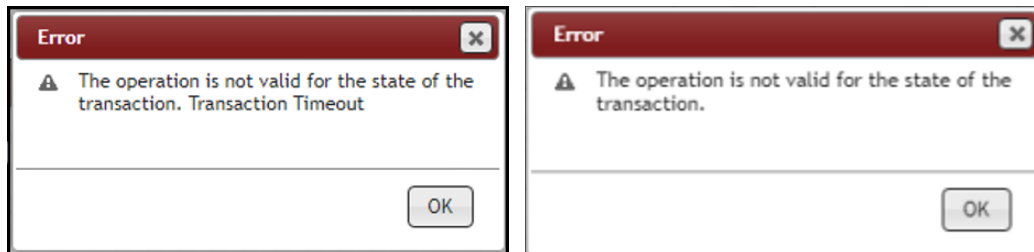
- Execution Timeout Expired. The timeout period elapsed prior to completion of the operation or the server is not responding. Operation cancelled by user.



- The transaction associated with the current connection has completed but has not been disposed. The transaction must be disposed before the connection can be used to execute SQL statements.



- The operation is not valid for the state of the transaction (with or without Transaction Timeout)



- The transaction has aborted.



8 Appendix: Tutorial for Importing CSV Parts

This Appendix includes a tutorial that is comprised of four modules that supplement the sections, Bulk Operations of [CIP Administration](#), and [Import](#). Sample parts from this tutorial may be deleted by following information in the **Admin** > **Bulk Operations** > [Bulk Delete](#).

As you follow the instructions presented in this tutorial you need to access the exercise files: "Capacitors.csv" and "SampleParts.csv". The files may be downloaded from this section of the web help. The file "Capacitors.csv" supports the Modules 1 and 2, while "SampleParts.csv" supports Modules 3 and 4. Each module assumes you have successfully completed the steps of the previous module.

- [Module 1: Configuring and mapping an import file](#)
- [Module 2: Importing capacitors into CIP](#)

- [Module 3: Adding parts to CIP without updating existing parts](#)
- [Module 4: Updating existing CIP parts](#)

8.1 Module 1: Configuring and Mapping an Import File

When you complete the steps in Module 1 you will be able to configure and map fields of a CSV import file to CIP.

To configure and map an import file:

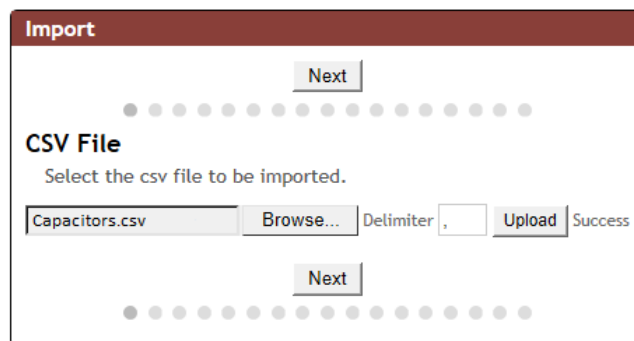
Step 1: If you are able to back up your database, do so now.

Step 2: Select **Admin > Bulk Operations > Import**.

Step 3: Click the **Configuration** button, then click the **Choose File** or **Browse** button (depending on your browser) to select the **Capacitors.csv** file.

Step 4: Verify a comma is entered as the **Delimiter**.

Step 5: Click the **Upload** button and wait a moment for the upload process to complete. The word "Success" appears to the right of the Upload button when the file is successfully uploaded.



Successful upload of CSV file

Step 6: Click **Next** to progress to the Key Field Configuration screen. Map the fields of the Capacitors.csv file as follows:

- PART_NUMBER – map to Item No. field
- Component View – map to Component Type field
- Manufacturer – map to Mfr. field
- Manufacturer PN – map to MPN field
- Distributor – map to Dist field
- Distributor PN – map to Dist PN field

Click the **Next** button to progress to the Capacitors Field Mappings window.

Import

Previous Next

Key Field Configuration

Map the key fields from the import file to the corresponding CIP field.

CIP Field	Import Field
PART_NUMBER	Item No. <input style="width: 80%;" type="text" value="Item No."/>
Component View	Component Type <input style="width: 80%;" type="text" value="Component Type"/>
Manufacturer	Mfr. <input style="width: 80%;" type="text" value="Mfr."/>
Manufacturer PN	MPN <input style="width: 80%;" type="text" value="MPN"/>
Distributor	Dist <input style="width: 80%;" type="text" value="Dist"/>
Distributor PN	Dist PN <input style="width: 80%;" type="text" value="Dist PN"/>

Previous Next

Step 7: Click the **Auto Map** button. If a warning pops up asking you to verify whether you want to overwrite existing data, click **Overwrite**. Notice how the CSV fields that have the same names as CIP fields automatically map.

Step 8: Manually map the following remaining fields in the Capacitors Field Mappings window that were excluded from the auto-mapping:

- Part Type – map to Component Type
- Description – map to Short Description
- Company Part Status – map to Status
- Dielectric Type – map to Dielectric
- Equivalent Series Resistance – map to ESR

Leave the remaining fields blank.

Capacitors Field Mappings

Auto Map

CIP Field	Import Field
Part Type	Component Type
Description	Short Description
Value	Value
PCB Footprint	
Schematic Part	Schematic Part
Number of Pins	Number of Pins
Operating Temperature Maximum	Operating Temperature Maximum
Operating Temperature Minimum	Operating Temperature Minimum
Package Size	Package Size
Package Height	Package Height
Package Type	Package Type
Company Part Status	Status
Dielectric Type	Dielectric
Equivalent Series Resistance	ESR
Temperature Coefficient	Temperature Coefficient
Tolerance	Tolerance
Rated Voltage	Rated Voltage

Auto Map and Manual Mapping of Capacitors Field Mappings

Step 9: Click the **Next** button multiple times until you open the Manufacturer Field Mappings. If you go beyond the Manufacturer Field Mappings screen, click **Previous** to return to that screen.

Step 10: Select **Mfr Status** for the field Manufacturer PN Status. Click **Next** and then click **Save**.

You have now successfully completed the configuration of capacitors field mappings. You are ready to progress to Module 2.

8.2 Module 2: Importing Capacitors into CIP

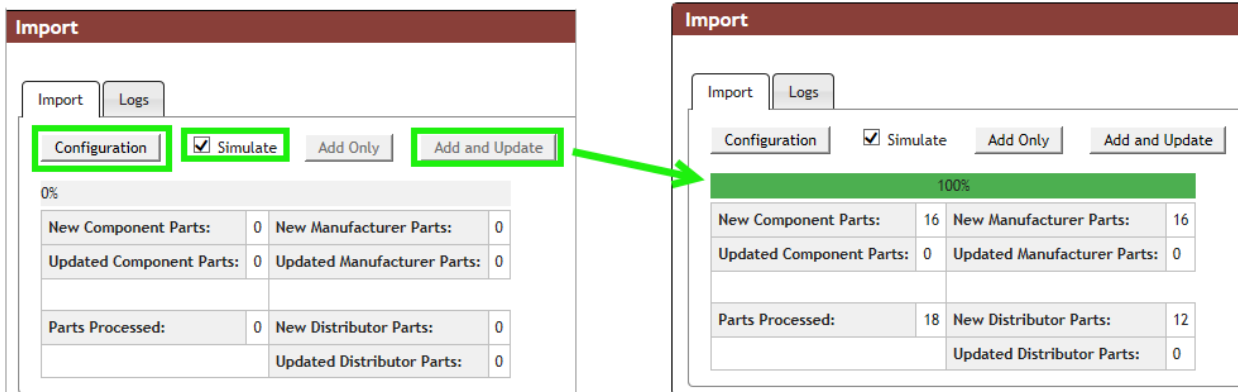
When you complete the steps in Module 2 you will be able to:

- Simulate how CIP will be impacted before you import parts
- Understand the different uses of the **Add Only** and **Add and Update** buttons
- Add capacitors to CIP

Instructions presented in this module assume you have successfully completed all steps in Module 1. If you have not created a backup of your CIP database during Module 1, backup your database now. This module begins with the CIP Import screen.

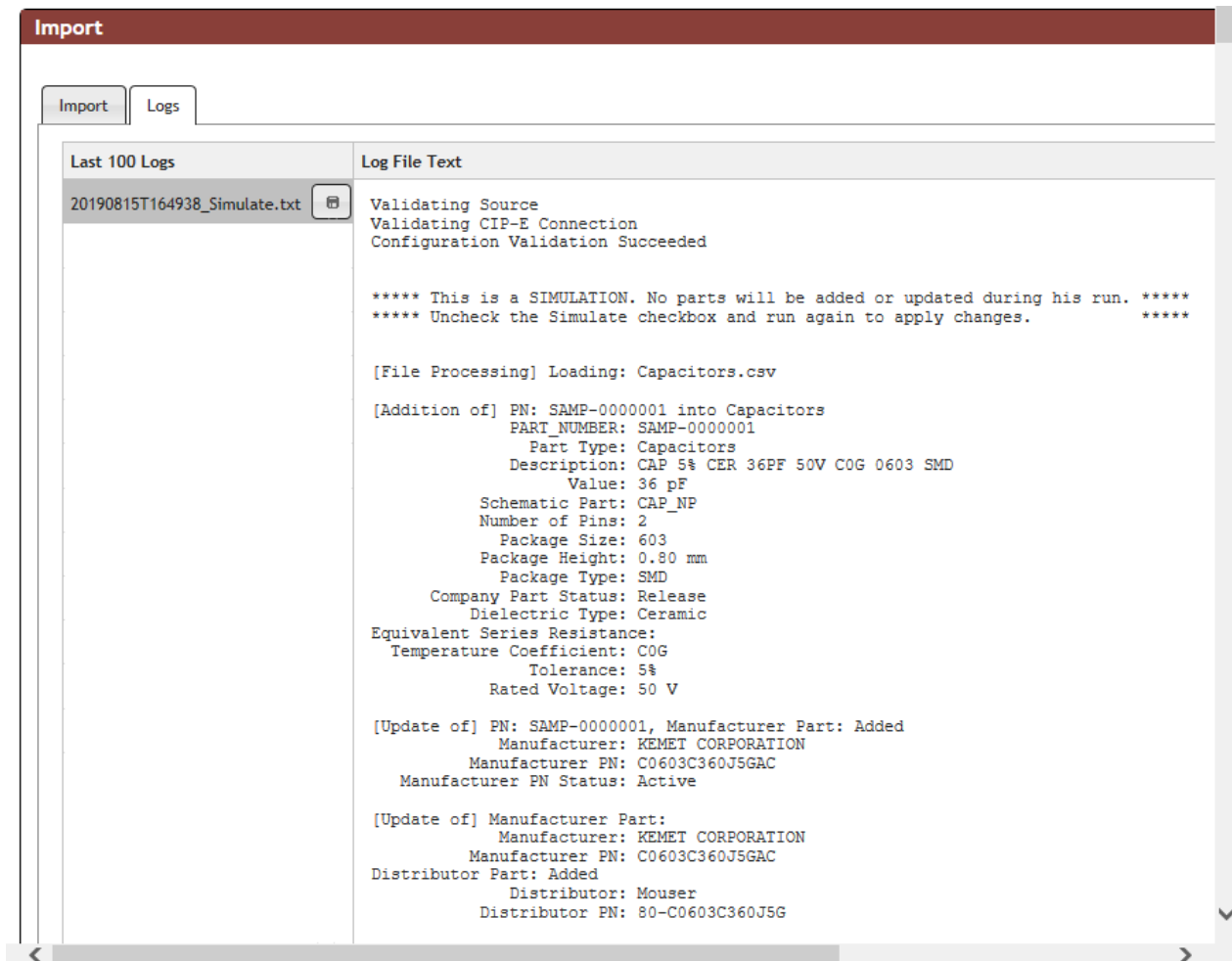
To import parts into the Capacitors View

Step 1: Select the **Simulate** check box if it is not already selected and click the **Add and Update** button. The green status bar indicates when the CIP simulation is complete. The results of the import simulation are summarized below the green status bar.



Simulate how the import will impact CIP database before you import parts

Step 2: Select the **Logs** tab and click the log file name to open and view the log. The naming convention of this file is <YYYYMMDD>T<HHMMSS>_Simulate.txt. You can recognize the correct log by the date and time. The most recent log is located at the top of the list.



Results of the Simulate Import are reported in the Log file

Step 3: Notice the summary at the end of the log that identifies 18 parts processed, 16 parts added, 16 Mfr parts added, and 12 distributor parts added. Two warnings are issued that say two parts have Cap is not recognized as a Part Type Category and Component View. Although the Capacitors.csv file includes 18 parts you want to import, CIP is only able to import 16 parts.

```

----- Summary -----
Warnings: 2
Parts Added: 16
Parts Updated: 0
Mfr Parts Added: 16
Mfr Parts Updated: 0
Dis Parts Added: 12
Dis Parts Updated: 0
# of Parts Processed: 18
Start Time: 8/15/2019 4:49:38 PM
End Time: 8/15/2019 4:49:39 PM
Processing Time: 00:00:01.6432276

```

Log Summary at end of log

The details of the warnings explain why the two files are excluded from the import: "No mapping found for category 'Cap.'"

```
[Part Processing] Warning: Part Number 'SAMP-0000017' could not be processed. No mapping found for category 'Cap'.
[Part Processing] Warning: Part Number 'SAMP-0000018' could not be processed. No mapping found for category 'Cap'.
```

Log warnings explain why CIP is unable to process parts

- Step 4: Open the **Capacitors.csv** file in Notepad, Excel, or other txt editor. Find the two parts with the Component Type: '**Cap.**' Change 'Cap' to '**Capacitors**' and save the file. If you opened the file in Excel, notice the Package Sizes that were originally 0603 were altered to 603 when the file was saved.
- Step 5: Return to the CIP Import screen and Import tab. Click the **Configuration** button. Select and re-upload the updated Capacitors.csv file. Using the **Next** button page through the Import screens to verify the configuration mappings are still correct. Then click the **Save** button.
- Step 6: Deselect the **Simulate** checkbox. Click the **Add Only** button. This time all 18 parts with 18 manufacturer parts and 12 distributor parts are added to the database.

Import

Import Logs

Configuration Simulate Add Only Add and Update

100%

New Component Parts:	0	New Manufacturer Parts:	0
Updated Component Parts:	0	Updated Manufacturer Parts:	0
Parts Processed:	18	New Distributor Parts:	0
		Updated Distributor Parts:	0

18 new components added to CIP

Deselect Simulate Check box to add parts to CIP database

Click Add only to add parts without updating existing parts in CIP

- Step 7: Open CIP from your browser and search for parts with PART_NUMBER containing SAMP. Notice the 18 parts are retrieved in the search results.

Export <input type="checkbox"/> For Excel	
Matches: 18	
Component View	PART_NUMBER
Capacitors	SAMP-0000001
Capacitors	SAMP-0000002
Capacitors	SAMP-0000003
Capacitors	SAMP-0000006
Capacitors	SAMP-0000007
Capacitors	SAMP-0000008
Capacitors	SAMP-0000009
Capacitors	SAMP-0000010
Capacitors	SAMP-0000011
Capacitors	SAMP-0000012
Capacitors	SAMP-0000013
Capacitors	SAMP-0000014
Capacitors	SAMP-0000015
Capacitors	SAMP-0000017
Capacitors	SAMP-0000018
Capacitors	SAMP-0000024
Capacitors	SAMP-0000025

Your search results confirm you have successfully added 18 parts to your CIP database. You are ready to progress to Module 3.

8.3 Module 3: Adding Parts to CIP without Updating Existing Parts

When you complete the steps in Module 3 you will be able to:

- Interpret data in the log before adding parts to CIP
- Add multiple types of parts to CIP without updating existing parts

To add new parts to all other CIP views without changing the Capacitors view

Step 1: Select the **Admin > Bulk Operations > Import** menu.

Step 2: At the **Import** tab, click **Configuration** button to open the Import CSV File window.

Step 3: Click the **Choose File** or **Browse** button (depending on your browser) to select the **SampleParts.csv** import file. Click **Upload** to upload the file and click **Next**.

Step 4: Map the following fields in the Key Field Configuration:

- PART_NUMBER – map to Part Num
- Component View – map to Table
- Leave Manufacturer Name and Manufacturer PN fields blank.
- Click **Next**.

Key Field Configuration
Map the key fields from the import file to the corresponding CIP field.

CIP Field	Import Field
PART_NUMBER	Part Num
Component View	Table
Manufacturer	
Manufacturer PN	
Distributor	
Distributor PN	

Previous Next

Step 5: For each of the remaining Component Field Mapping screens, map Description to **Description**. Click **Save** when the last page displays.

Import

Previous Save

Progression of gray dots represent each import page

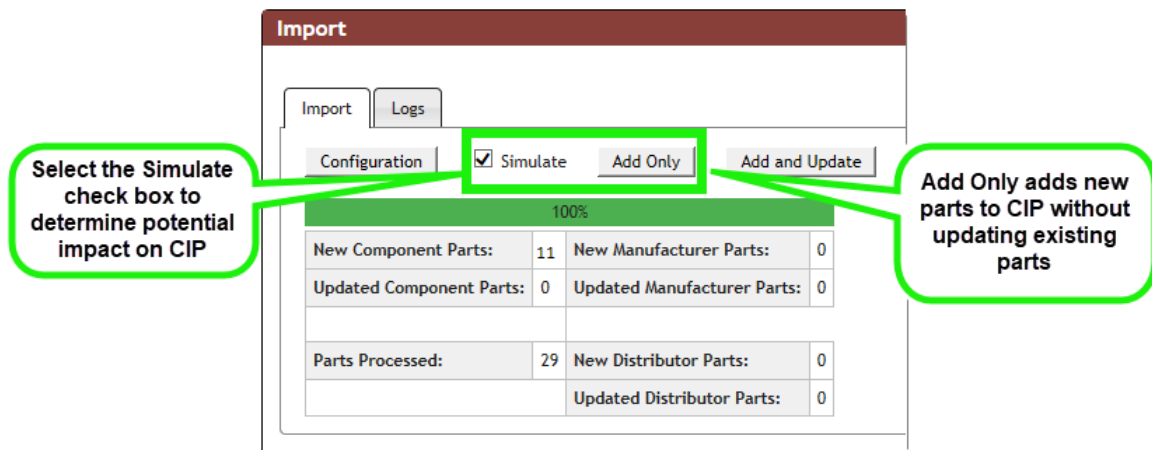
Transistors Field Mappings

Auto Map

CIP Field	Import Field
Part Type	
Description	Description
Value	

Save button is on the last Import page

Step 6: Verify the **Simulate** checkbox is selected. Click **Add Only**.



Notice the summary results of the analysis.

Step 7: Open the **Logs** tab and review the Simulate log file. Notice the log summary that is reporting 11 parts are added to the database and 29 parts were processed. Of the 29 parts processed, 18 parts were added during the completion of Module 2 and the remaining 11 parts of the 29 are new and added to CIP. Because the Simulate check box was selected, however, the log summary indicates the *potential* impact the import will have on CIP as the parts are not yet added to CIP.

```

----- Summary -----
      Warnings:      0
      Parts Added:   11
      Parts Updated: 0
      Mfr Parts Added: 0
      Mfr Parts Updated: 0
      Dis Parts Added: 0
      Dis Parts Updated: 0
      # of Parts Processed: 29
      Start Time: 8/16/2019 8:58:16 AM
      End Time: 8/16/2019 8:58:17 AM
      Processing Time: 00:00:00.9374998
  
```

Analyze log summary

Step 8: Open the **Import** tab. Deselect the **Simulate** check box and click the **Add Only** button. When the Simulate check box is blank, the new components are in fact added to CIP.

The screenshot shows the 'Import' configuration window. The 'Add Only' button is highlighted with a green box. Below the buttons, a progress bar indicates 100% completion. A table displays the following statistics:

100%			
New Component Parts:	11	New Manufacturer Parts:	0
Updated Component Parts:	0	Updated Manufacturer Parts:	0
Parts Processed:	29	New Distributor Parts:	0
		Updated Distributor Parts:	0

Add new parts to CIP without updating existing parts

Step 9: When the **Add Only** process is 100% complete, return to the **Logs** tab and review the Import log.

The screenshot shows the 'Import' window with the 'Logs' tab selected. The 'Last 2 Logs' section lists two log files. The 'Log File Text' section displays the following text:

```

Validating Source
Validating CIP-E Connection
Configuration Validation Succeeded

**** This is a SIMULATION. No parts will be added or updated
**** Uncheck the Simulate checkbox and run again to apply

[File Processing] Loading: SampleParts.csv

[Addition of] FN: SAMP-0000001 into Capacitors
PART_NUMBER: SAMP-0000001
Description: CAP 5% Ceramic 36PF 50V COG 0603

[Addition of] FN: SAMP-0000002 into Capacitors
PART_NUMBER: SAMP-0000002
Description: CAP 5% Ceramic 680PF 50V COG 080

[Addition of] FN: SAMP-0000003 into Capacitors
PART_NUMBER: SAMP-0000003
Description: CAP 5% Ceramic 330PF 50V COG 080

[Addition of] FN: SAMP-0000006 into Capacitors
PART_NUMBER: SAMP-0000006
Description: CAP 10% Ceramic .01UF 50V X7R 08

[Addition of] FN: SAMP-0000007 into Capacitors
PART_NUMBER: SAMP-0000007
  
```

Import log identifies parts added

Step 10: Select **CIS DB Search** menu item.

Step 11: Conduct a search to retrieve PART_NUMBERS that contain SAMP and include the CIP field "Description" in the search results. Notice 29 parts are retrieved in the search results.

Review the record entries for the Description field. Compare the Description to the contents of the SampleParts.csv file. The descriptions of the first import file, Capacitors.csv, included the abbreviations CER and TANT while the second import file, SampleParts.csv spells out Ceramic and Tantalum. When you added the additional components to CIP as you completed the steps in Module 3 and imported parts from SampleParts.csv, you did not update the part descriptions since **Add Only** was selected.

Export <input type="checkbox"/> For Excel		
Matches: 29		
Component View	PART_NUMBER	Description
Capacitors	SAMP-0000001	CAP 5% CER 36PF 50V COG 0603 SMD
Capacitors	SAMP-0000002	CAP 5% CER 680PF 50V COG 0805 SMD
Capacitors	SAMP-0000003	CAP 5% CER 330PF 50V COG 0805 SMD
Capacitors	SAMP-0000006	CAP 10% CER .01UF 50V X7R 0805 SMT
Capacitors	SAMP-0000007	CAP 10% CER 0.1UF 50V X7R 0805 SMT
Capacitors	SAMP-0000008	CAP CER 68PF 50V 5% COG 0603
Capacitors	SAMP-0000009	CAP CER 1000PF 50V 5% COG 0603
Capacitors	SAMP-0000010	CAP CER 100PF 100V 5% COG 0603
Capacitors	SAMP-0000011	CAP 10% CER 1UF 50V X7R 1206 SMT
Capacitors	SAMP-0000012	CAP CER .1UF 16V 10% X7R 0805
Capacitors	SAMP-0000013	CAP CER 15000PF 100V 10% X7R 0805
Capacitors	SAMP-0000014	CAP CER 47000PF 50V 20% Z5U 0805
Capacitors	SAMP-0000015	CAP TANT 3.3UF 16V 10% SMD
Capacitors	SAMP-0000016	CAP TANT 1.0UF 25V 10% SMD
Capacitors	SAMP-0000017	CAP TANT 68UF 6.3V 10% SMD
Capacitors	SAMP-0000018	CAP TANT LOWESR 68UF 35V 20% SMD
Capacitors	SAMP-0000024	CAP TANT LOESR 100UF 20V 10% SMD
Capacitors	SAMP-0000025	CAP TANT LOWESR 10UF 10V 10% SMD
Connectors	SAMP-0000026	CONN sample Part of Tutorial
Crystals and Oscillators	SAMP-0000027	XTAL sample part of tutorial
Diodes	SAMP-0000028	DIO sample part of tutorial

CIP search results verify parts added without updating existing part properties

You are ready to progress to Module 4: Updating Existing CIP Parts.

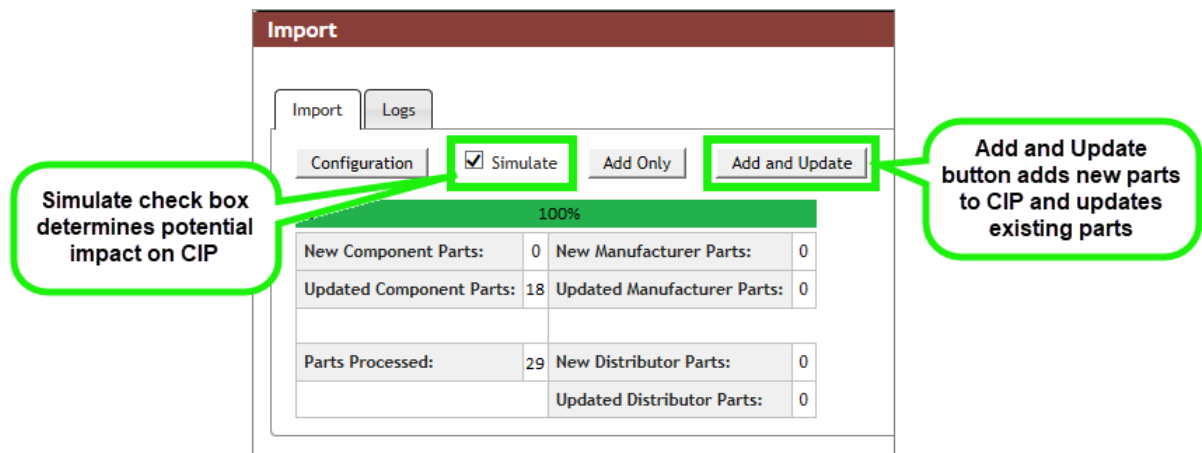
8.4 Module 4: Updating Existing CIP Parts

When you complete the steps in Module 4 you will be able to:

- Understand the full Import functionality
- Add new parts to CIP and update existing parts

To update Capacitors

- Step 1: Select the **Admin > Bulk Operations > Import** menu. At the **Import** tab, click **Configuration** button to open the Import CSV File window.
- Step 2: Browse to choose the import file, **SampleParts.csv**. Click **Upload** to upload the file and click **Next**.
- Step 3: Using the **Next** button, navigate through each Import screen to verify the mapping configuration you saved in Module 3. When the last window opens, (Transistors Field Mappings), **Save** the configuration.
- Step 4: Select the **Simulate** check box and click the **Add and Update** button. The green status bar indicates the completion of the analysis.



- Step 5: Review the Simulate Log. Notice there are 18 capacitors updated and no new parts.
- Step 6: Conduct a search for parts that have "SAMP" in the part name. Include the "Description" field in the search results. Notice the description in the search results. The abbreviations CER and TANT indicate the Description field is not yet updated, since Simulate Option was used.

Export For Excel

Matches: 29

Component View ⇅	PART_NUMBER ⇅	Description ⇅
Capacitors	SAMP-0000001	CAP 5% CER 36PF 50V COG 0603 SMD
Capacitors	SAMP-0000002	CAP 5% CER 680PF 50V COG 0805 SMD
Capacitors	SAMP-0000003	CAP 5% CER 330PF 50V COG 0805 SMD
Capacitors	SAMP-0000006	CAP 10% CER .01UF 50V X7R 0805 SMT
Capacitors	SAMP-0000007	CAP 10% CER 0.1UF 50V X7R 0805 SMT
Capacitors	SAMP-0000008	CAP CER 68PF 50V 5% COG 0603
Capacitors	SAMP-0000009	CAP CER 1000PF 50V 5% COG 0603
Capacitors	SAMP-0000010	CAP CER 100PF 100V 5% COG 0603
Capacitors	SAMP-0000011	CAP 10% CER 1UF 50V X7R 1206 SMT
Capacitors	SAMP-0000012	CAP CER .1UF 16V 10% X7R 0805
Capacitors	SAMP-0000013	CAP CER 15000PF 100V 10% X7R 0805
Capacitors	SAMP-0000014	CAP CER 47000PF 50V 20% Z5U 0805
Capacitors	SAMP-0000015	CAP TANT 3.3UF 16V 10% SMD
Capacitors	SAMP-0000016	CAP TANT 1.0UF 25V 10% SMD
Capacitors	SAMP-0000017	CAP TANT 68UF 6.3V 10% SMD
Capacitors	SAMP-0000018	CAP TANT LOWESR 68UF 35V 20% SMD
Capacitors	SAMP-0000024	CAP TANT LOESR 100UF 20V 10% SMD
Capacitors	SAMP-0000025	CAP TANT LOWESR 10UF 10V 10% SMD
Connectors	SAMP-0000026	CONN sample Part of Tutorial
Crystals and Oscillators	SAMP-0000027	XTAL sample part of tutorial
Diodes	SAMP-0000028	DIO sample part of tutorial

CIP search results

Step 7: Return to the CIP Import tab and click the **Configuration** button. Choose and upload the file **SampleParts.csv**. Then click **Next** to verify the configuration mappings of each screen. When you complete the last screen **Save** the mappings.

Step 8: Deselect the **Simulate** check box and click the **Add and Update** button to actually update existing CIP parts.

100%			
New Component Parts:	0	New Manufacturer Parts:	0
Updated Component Parts:	18	Updated Manufacturer Parts:	0
Parts Processed:	29	New Distributor Parts:	0
		Updated Distributor Parts:	0

Step 9: Review the Import Log and notice there are 18 parts updated.

```

----- Summary -----
      Warnings:      0
      Parts Added:   0
      Parts Updated: 18
      Mfr Parts Added: 0
      Mfr Parts Updated: 0
      Dis Parts Added: 0
      Dis Parts Updated: 0
      # of Parts Processed: 29
      Start Time: 8/16/2019 10:01:28 AM
      End Time: 8/16/2019 10:01:31 AM
      Processing Time: 00:00:02.6093704
  
```

Step 10: Conduct a database search for parts that contain SAMP in the PART_NUMBER. Include the **Description** in the search results.

Review the 29 parts in the search results. Notice the Descriptions field. CER is updated to Ceramic and TANT is updated to Tantalum.

Export For Excel

Matches: 29

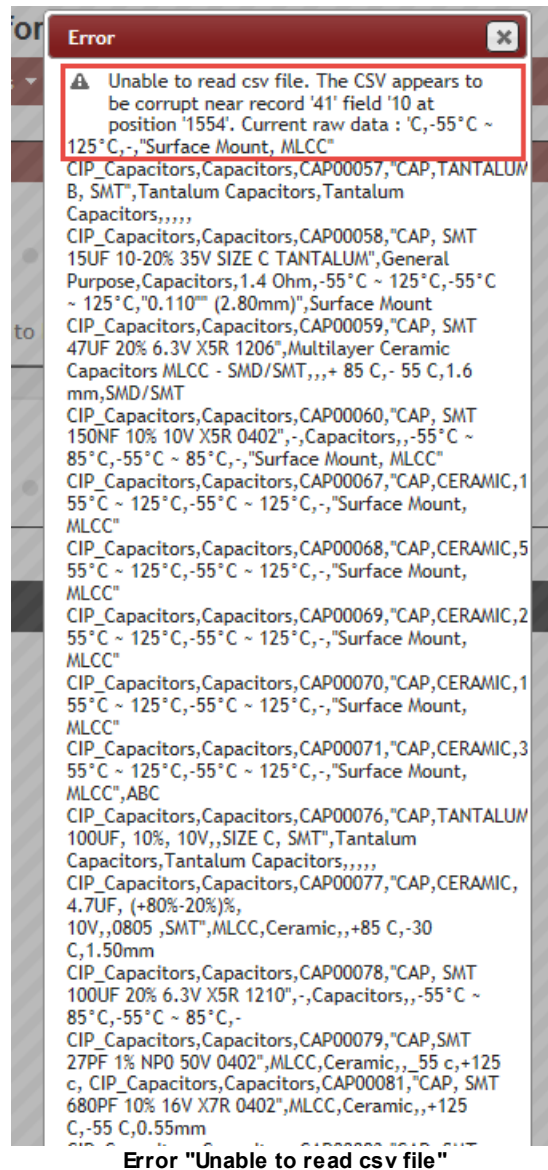
Component View	PART_NUMBER	Description
Capacitors	SAMP-000001	CAP 5% Ceramic 36PF 50V COG 0603 SMD
Capacitors	SAMP-000002	CAP 5% Ceramic 680PF 50V COG 0805 SMD
Capacitors	SAMP-000003	CAP 5% Ceramic 330PF 50V COG 0805 SMD
Capacitors	SAMP-000006	CAP 10% Ceramic .01UF 50V X7R 0805 SMT
Capacitors	SAMP-000007	CAP 10% Ceramic 0.1UF 50V X7R 0805 SMT
Capacitors	SAMP-000008	CAP Ceramic 68PF 50V 5% COG 0603
Capacitors	SAMP-000009	CAP Ceramic 1000PF 50V 5% COG 0603
Capacitors	SAMP-000010	CAP Ceramic 100PF 100V 5% COG 0603
Capacitors	SAMP-000011	CAP 10% Ceramic 1UF 50V X7R 1206 SMT
Capacitors	SAMP-000012	CAP Ceramic .1UF 16V 10% X7R 0805
Capacitors	SAMP-000013	CAP Ceramic 15000PF 100V 10% X7R 0805
Capacitors	SAMP-000014	CAP Ceramic 47000PF 50V 20% Z5U 0805
Capacitors	SAMP-000015	CAP Tantalum 3.3UF 16V 10% SMD
Capacitors	SAMP-000016	CAP Tantalum 1.0UF 25V 10% SMD
Capacitors	SAMP-000017	CAP Tantalum 68UF 6.3V 10% SMD
Capacitors	SAMP-000018	CAP Tantalum LOWESR 68UF 35V 20% SMD
Capacitors	SAMP-000024	CAP Tantalum LOESR 100UF 20V 10% SMD
Capacitors	SAMP-000025	CAP Tantalum LOWESR 10UF 10V 10% SMD
Connectors	SAMP-000026	CONN sample Part of Tutorial

In addition to adding new parts to CIP, Module 4 has demonstrated how the **Add and Update** button can be used to update the properties of existing parts. The search results shown in the above image show the updated content of the capacitors Description property.

8.5 Troubleshooting Import Files

This troubleshooting section describes several of the most common issues that may occur with the import file.

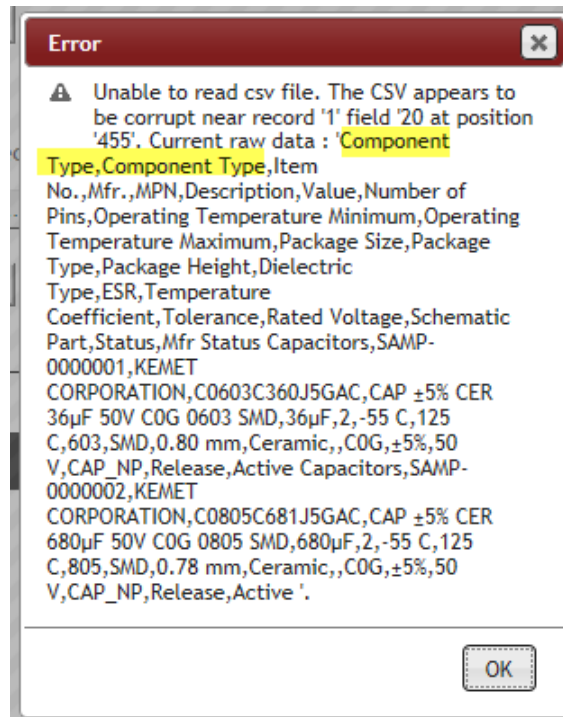
- 1) **Problem:** You are receiving an error message that starts with "Unable to read csv file. The CSV appears to be corrupt near record..."



Cause: Your .CSV file is corrupt. This happens when you manually edit a .CSV file and accidentally delete a comma. An import file also becomes corrupt when a comma separated field value is not enclosed in quotation marks. This error may also occur when you use Excel to create a .CSV file. Excel creates the output file in block. When there are many consecutive lines of data with nulls in the last few columns, Excel may fail to pad the lines with the appropriate number of commas.

Resolution: If you are using Excel, move a column of data that has cell values for all or most rows to the far right column. If you did not use Excel, use the line number display to help target the problem.

2) **Problem:** You are receiving an error that begins with the statement, "Unable to read .csv file."



Cause: Your .CSV file either has duplicate field names (column headings) or additional columns may have been inserted by Excel without a field name. The highlighted text in the sample above shows that "Component Type" is the header for 2 columns.

Resolution: If you are using Excel, make sure all columns of data have a unique column heading. If you see each column heading is unique, delete any column without data.

3) **Problem:** After running Simulate, the total number of parts are identified without reference to updated parts.

Cause: Any number of reasons may cause this. Possible causes include: incorrect mappings or rerunning an import file previously imported.

Resolution: Review the log file to determine why the CIP Import is unable to identify changes. Also thoroughly check your configuration. After correcting the problem, restart the Simulate process again.

4) **Encoding Warnings:** Encoding warnings are shown in log file but you do not see them in your import file.

Component	Item No.	Mfr.	MPN	Descriptive Value	Number of Operating	Operating	Package S	Package T	Package H	Dielectric	ESR	Temperature	Tolerance	Rated Vol	Schematic	Status	Mfr Status
Capacitor: SAMP-000	KEMET	CO C0603C361	CAP ±5% 36µF	2	-55 C	125 C	603 SMD	0.80 mm	Ceramic	COG	±5%	50 V	CAP_NP	Release	Active		
Capacitor: SAMP-000	KEMET	CO C0805C681	CAP ±5% 680µF	2	-55 C	125 C	805 SMD	0.78 mm	Ceramic	COG	±5%	50 V	CAP_NP	Release	Active		

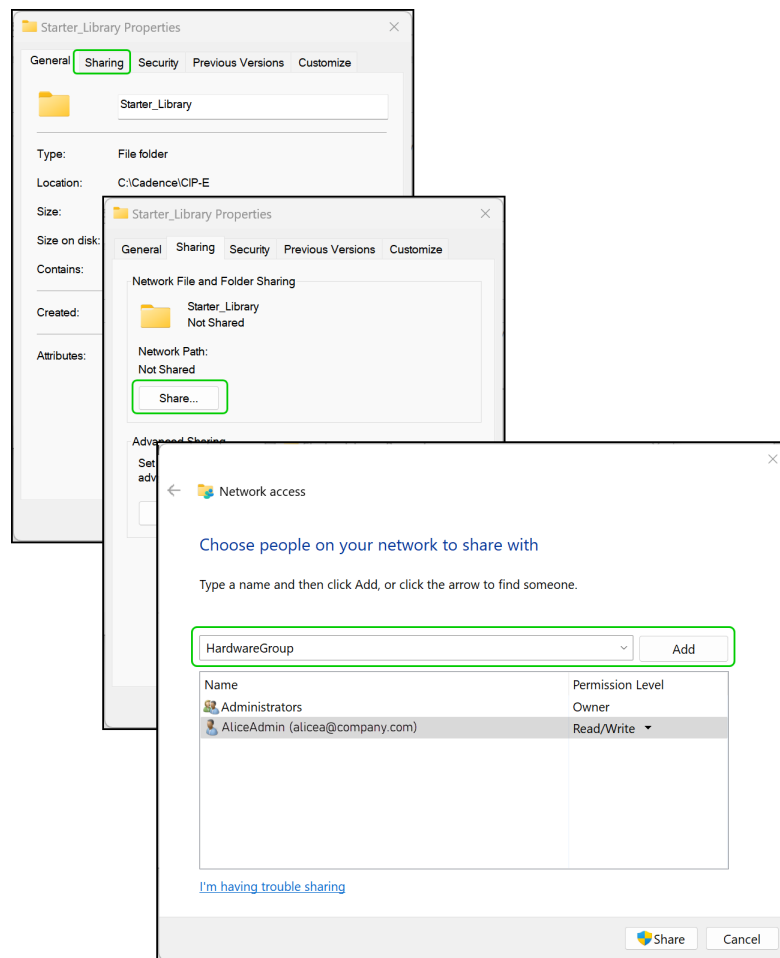
Cause: Opening and saving files that are exported by an application may cause the file encoding to change from UTF-8 to ANSI. Excel may be unable to detect the encoding of the original file.

Resolution: If you open a file from Excel that has non-ASCII characters and the characters look odd, close the file without saving. The best way to open this type of file using Excel is to rename the file to .txt. Open the .txt using UTF-8 encoding and then export the file to UTF-8 encoding format.

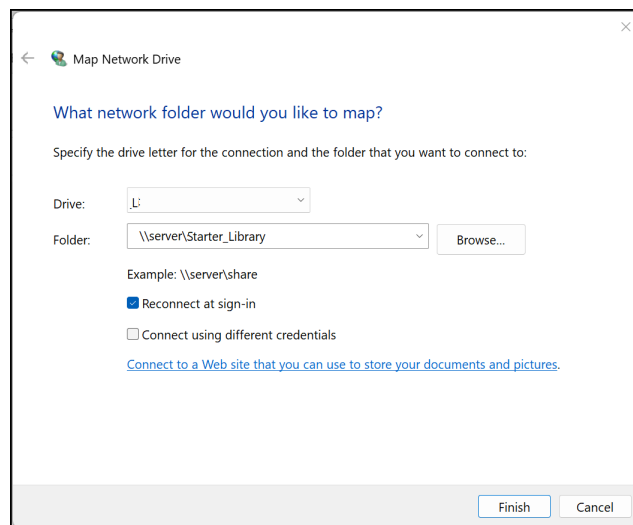
9 Appendix: Sample CDS_SITE Setup for System Capture

CDS_SITE is a location that contains common System Capture project settings and library information. The Starter Library that comes with the CIP Web Server installation provides the folder structure and corresponding sample site.cpm and cds.lib files which enables you to get started quickly. This appendix provides a step by step guide to setup up your CDS_SITE and place parts from CIP to your System Capture schematic.

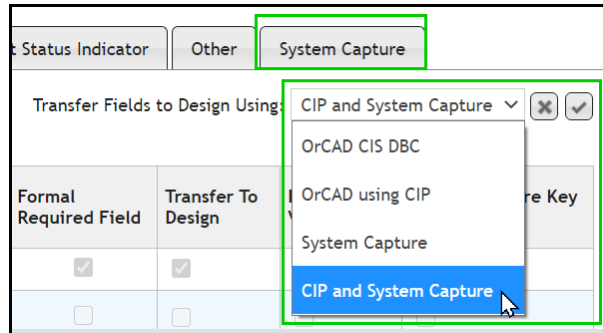
1. Verify that the System Capture Starter Library Option has been installed with the CIP Web Server. If your CIP web server is an upgrade, you will need to uninstall the existing server and run the installer again to see the System Capture Library Option.
2. Create a share to your installed Starter_Library location. This may require a person (most likely IT personnel) who has permission to perform this task on the web server. You may copy the Starter_Library to another file server to ensure an accidental uninstall or upgrade doesn't change files that you want to keep or alter.



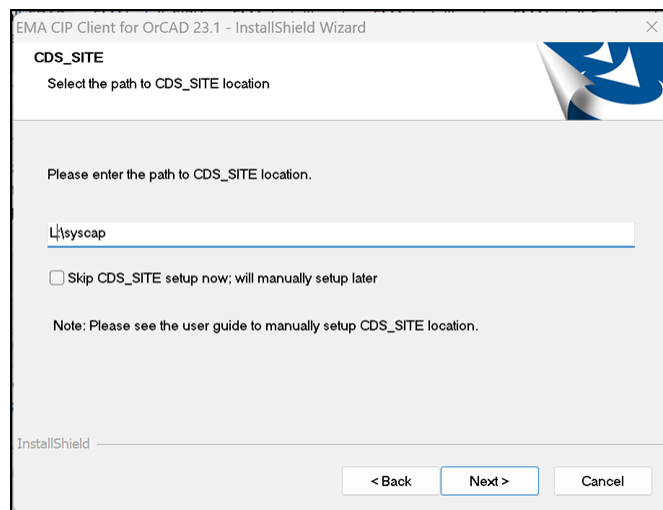
3. Map a drive to this share and have all users who need access to System Capture libraries create the same map drive letter to this share. To verify this step, navigate to the `\syscap\Libraries` subfolder (e.g. `L:\syscap\Libraries`) and look for the file **Starter_Lib.csv**. This file contains the starter library parts and corresponding System Capture Model names.



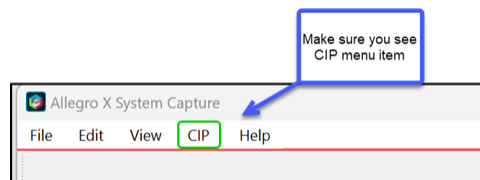
- Navigate to CIP using a standard browser and configure CIP to have System Capture enabled for [transfer fields to design](#) using **Admin > Configuration > Customizable Fields**. Set the Transfer Fields to Design Using option to **System Capture**. Review the [Configure Transfer Fields to Design](#) section for detail information of options.



- Import the Starter Library parts and parametric information. The System Capture Starter Library parts list (Starter_Lib.csv) will be in syscap\Libraries subdirectory of your map drive. If you are not familiar with the CIP bulk import functionality, you may run through the steps in the [Tutorial for Importing CSV Parts](#).
- Install the CIP Client making sure to include the System Capture Client feature selection during install. If you are upgrading the CIP Client, you will need to uninstall the existing version and run the installer again to see the System Capture option. During install, at the CDS_SITE dialog, enter the mapped drive information (e.g. L:\syscap).

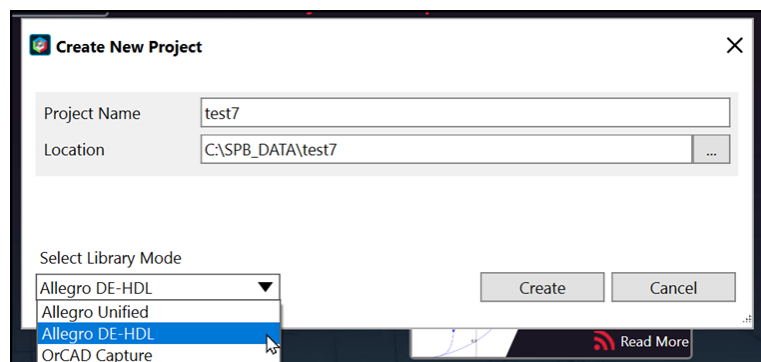


- After you have completed your installation following the CIP client install guide, bring up your System Capture version (e.g. 24.1) and make sure you see the CIP menu.

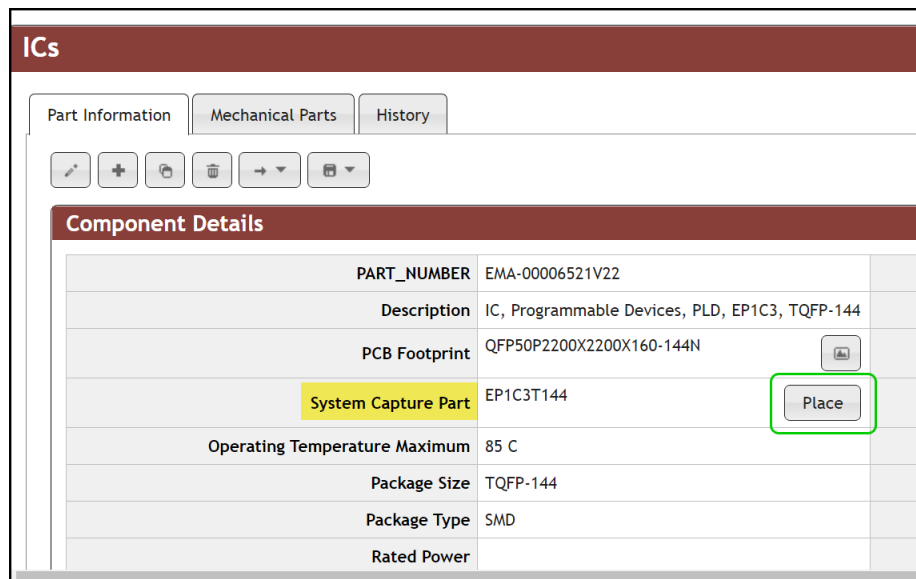


- Select **CIP > Open CIP** and [log in](#).

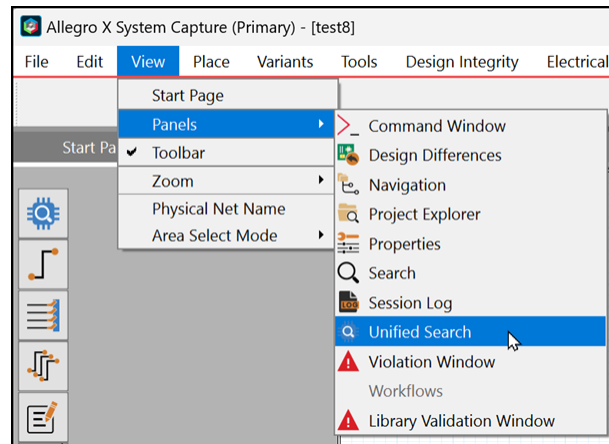
9. Navigate to **Admin > Configuration > System Capture** to complete System Capture setup and create PTF file. You will need to [configure the location of your PTF file](#). Enter \$CDS_SITE/Libraries/SysCapModel if using the starter library. You can set up [substitution rules](#) now if you would like.
10. Click the **Generate** button to create the PTF. This will take some time. A CMD window will launch to create an index for System Capture. DO NOT close this window. It will close itself when complete.
11. Now you are ready to create a new Project.
12. Select **File > New > Project** to create a new DE-HDL project, making sure the project selection is DE-HDL.



13. Switch to the **CIP** tab in System Capture and search for a part, and click the **Place** button next to the System Capture Part field. Placement of TMP parts are disallowed.

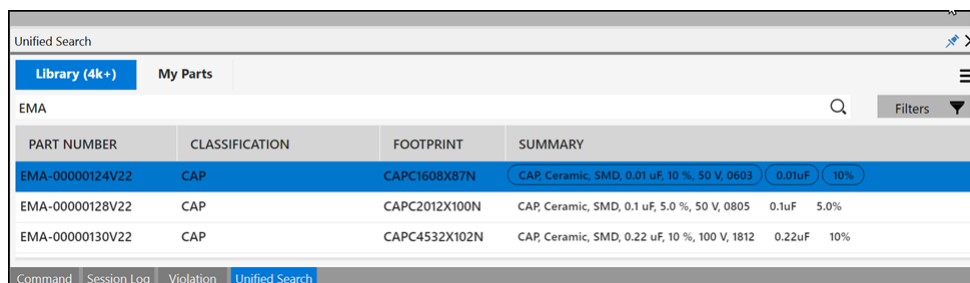


14. Click on the part after place to view attribute added when place.
15. To see part list of parts in System Capture, select **View > Panels > Unified Search** to bring up the Unified Search tab.



16. You can skip log in if you don't have log in information.

17. After the Unified Search tab is open, enter "EMA" in the search string to see the parts import from the starter library.



PART NUMBER	CLASSIFICATION	FOOTPRINT	SUMMARY
EMA-00000124V22	CAP	CAPC1608X87N	CAP, Ceramic, SMD, 0.01 uF, 10 %, 50 V, 0603 0.01uF 10%
EMA-00000128V22	CAP	CAPC2012X100N	CAP, Ceramic, SMD, 0.1 uF, 5.0 %, 50 V, 0805 0.1uF 5.0%
EMA-00000130V22	CAP	CAPC4532X102N	CAP, Ceramic, SMD, 0.22 uF, 10 %, 100 V, 1812 0.22uF 10%