

Ultra Librarian – Free Reader

Zuken Process

June 21, 2016

The Partner For Success



High Level Process

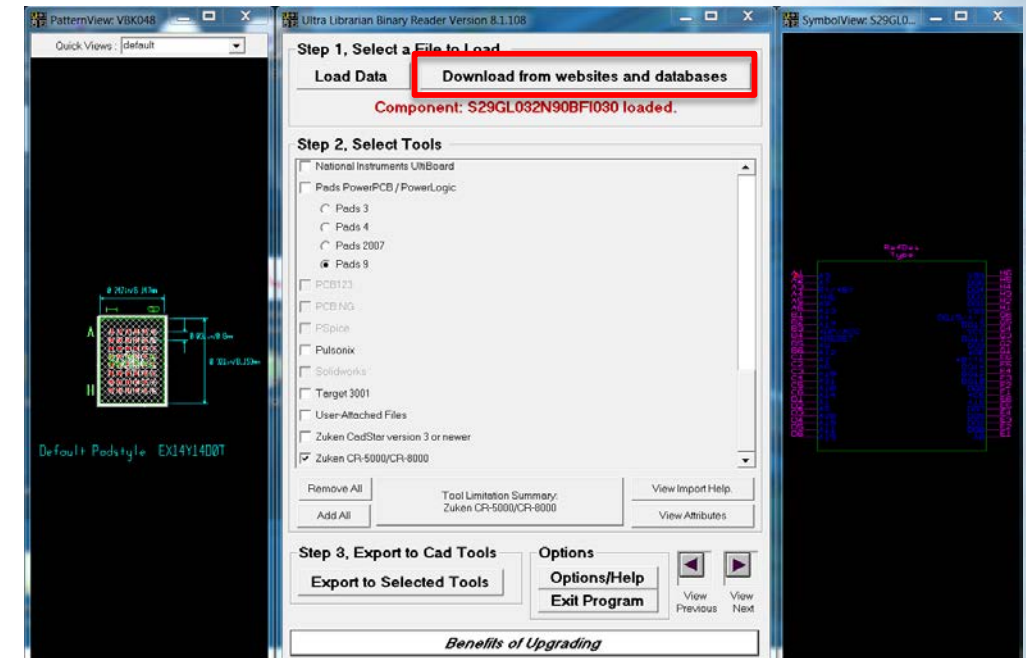
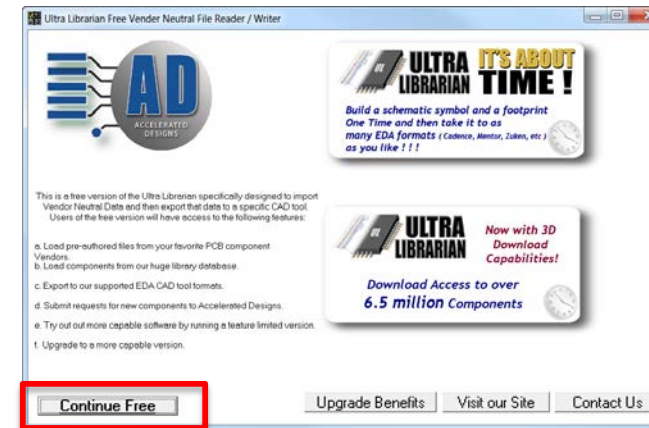
1. Download and install Ultra Librarian Software
2. Select the component to be downloaded
3. Export the ascii data and the 3D STEP model for the component
4. Convert the ascii data to vendor-specific data
5. Merge the new component data into the existing library
6. QC and release



Detailed Process

1. Install Ultra Librarian <http://www.accelerated-designs.com>
2. Select **Continue Free**
3. Within Step 1 select **Download from websites and databases**. This example assumes that the Accelerated Designs Database will be used.
4. Choose the **Select Components from the Accelerated Designs Database** option

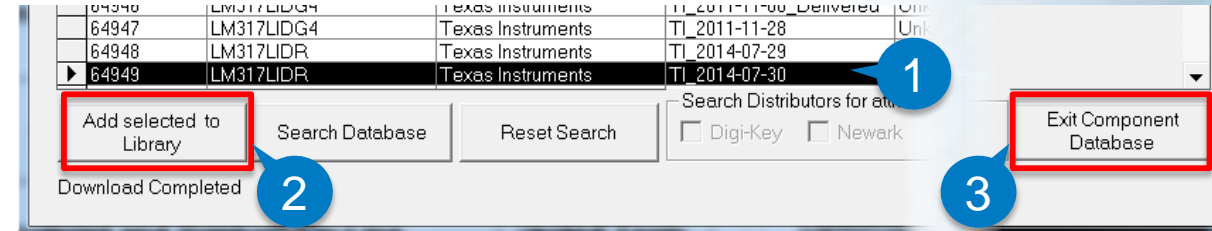
Select Components from the Accelerated Designs Database.



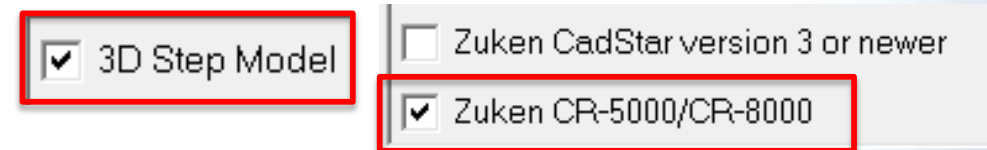
Detailed Process



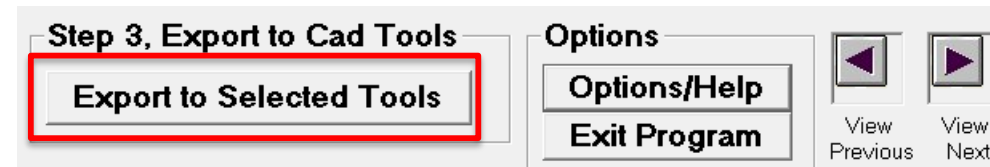
5. Select the component* to be downloaded, select **Add selected to Library**, then select **Exit Component Database**



6. Within Step 2, **unselect** Cadence Concept HDL and **select** both **3D Step Model** and **Zuken CR-5000/CR-8000**



7. Within Step 3, select **Export to Selected Tools**



The Export log will detail the export path along with instructions on how to convert the ascii export data to the vendor-specific format

- All ascii files are exported to: C:\UltraLibrarian\Library\Exported\CR5000\- Step model is exported to: C:\UltraLibrarian\Library\Exported\STL\

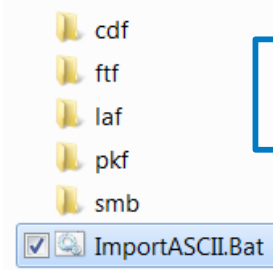
* - Download and Export is limited to 1 component at a time with the Free Reader

Detailed Process



8. **Move or copy the Step model** (the .stp file) to the proper folder within the Zuken library

9. Using Windows Explorer, **navigate** to the ascii export path



All folders contain ascii data, the exception being the smb folder which is an empty placeholder.

10. Run ImportASCII.Bat

1. Select **Components Manager** or **Components Editor** based on the installed environment
2. Select **System Designer** or **Design Gateway** based on the installed environment

The import routine will run with any errors output to the error-log.txt file

The part, package, and footprint will be created at the same level as the export path.

The symbol will be created in the smb folder.

11. **Move or copy the symbol** (the .smb file) to the proper symbol folder within the Zuken library

12. **Open** the symbol and add any company specific information

Detailed Process



Update the footprint layer mapping (assumes library access privileges)

13. Open Components Manager or Components Editor

14. Drag-and-drop the .ftp from the export path onto Components Manager (or Components Editor)

15. Select Tools -> Define Footprint Layer

16. Change the Layer Names to company specific layer names and Save

17. Close Components Manager or Components Editor

Layer Mapping can be preconfigured in the paid versions of Ultra Librarian

The screenshot shows the 'Define Footprint Layer' dialog box with a table of layer mappings. The table has three columns: 'No', 'Layer Name', and 'Layer Type'. A red box highlights the first 32 rows of the table.

No	Layer Name	Layer Type
*	*	*
1	COND_A	Conductor
2	COND_INNER	Conductor
3	COND_B	Conductor
4	SYMBOL_A	Symbol Mark Lay..
5	SYMBOL_B	Symbol Mark Lay..
6	RESIST_P_A	Resist Layer
7	RESIST_P_B	Resist Layer
8	METAL_A	Metal Mask Layer
9	METAL_B	Metal Mask Layer
10	COMP_AREA_A	Component Area ...
11	COMP_AREA_B	Component Area ...
12	INH_PLACE_A	Inhibit Layer
13	INH_PLACE_B	Inhibit Layer
14	INH_WIRE_A	Inhibit Layer
15	Inhibit(wir)-Inne...	Inhibit Layer
16	INH_WIRE_B	Inhibit Layer
17	User -Comment	Undefined Layer
18	Inner	Conductor
19	Bottom-Lay1	Conductor
20	Top-Lay1	Conductor
21	RESIST_S_B	Resist Layer
22	RESIST_S_A	Resist Layer
23	PARTS_DIMENSION	Undefined Layer
24	INH_VIA_A	Inhibit Layer
25	Inhibit(via)-Inner	Inhibit Layer
26	INH_VIA_B	Inhibit Layer
27	Inhibit(via)-All	Inhibit Layer
28	Inhibit(wir)-All	Inhibit Layer
29	Symbol_A	Symbol Mark Lay..
30	HOLE	Hole Layer
31	Silk-Top	Undefined Layer
32	Assembly-Top	Undefined Layer

Detailed Process



Merge the Part, Package, and Footprint into the Zuken library as follows: (assumes library access privileges)

18. Open Components Manager or Components Editor

19. Select Tools -> Compare Objects

20. Select Environment -> Compare Footprint Library

1. Set the **Reference Library** to the .ftp created in step #10
2. Set the **Destination Library** to the Zuken library .ftp
3. Set the **Output Object** to “Object having different contents...”
4. Select **Execute**
5. **Close** the Warnings

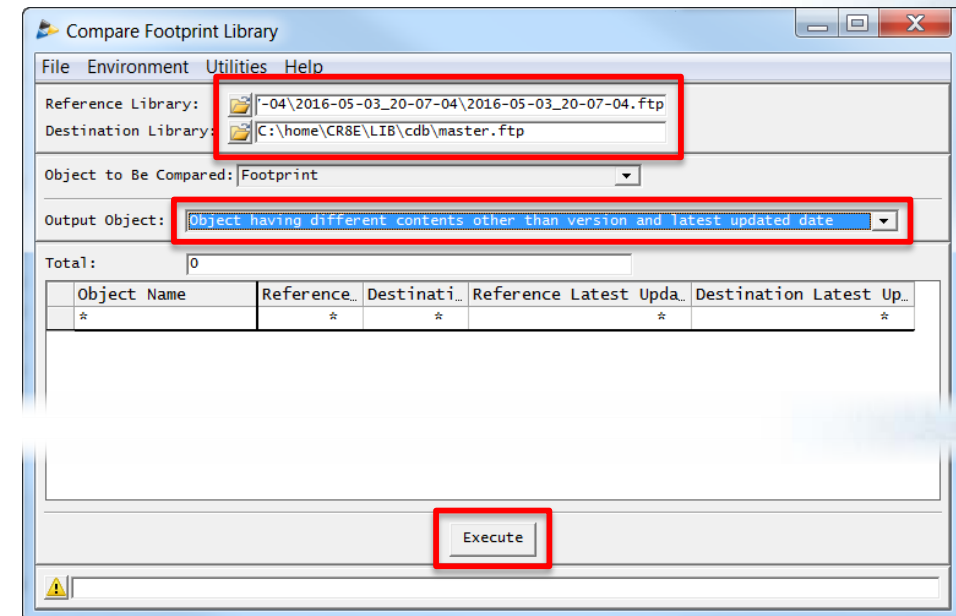
21. Select Utilities -> Transfer Objects to Copy CDB Library

The Copy Footprint Library form should already have the correct Reference and Destination Library, and the objects to be copied should already be selected.

22. Select **Execute**

23. **Close** the Message Viewer

24. **Close** the Copy Footprint Library window



Detailed Process



25. In the Compare Footprint Library window select **Environment -> Compare Package Library**

1. Set the **Reference Library** to the .pkg created in step #10
2. Set the **Destination Library** to the Zuken library .pkg
3. Set the **Output Object** to “Object having different contents...”
4. Select **Execute**
5. **Close** the Warnings

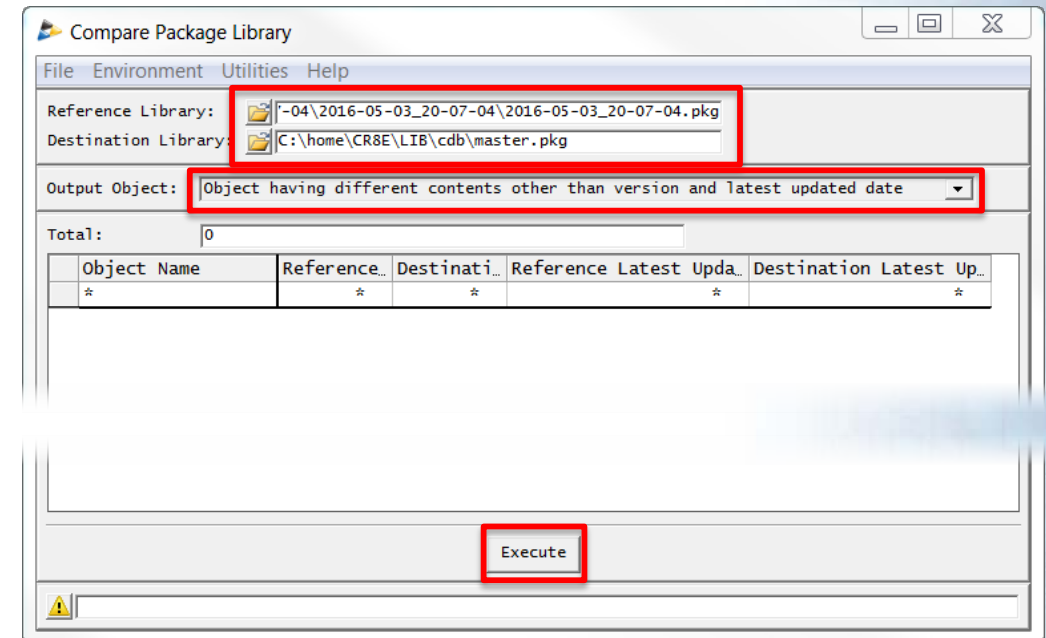
26. Select **Utilities -> Transfer Objects to Copy CDB Library**

The Copy Package Library form should already have the correct Reference and Destination Library, and the objects to be copied should already be selected.

27. Select **Execute**

28. **Close** the Warning

29. **Close** the Copy Package Library window



Detailed Process

30. In the Compare Package Library window select **Environment -> Compare Part Library**

1. Set the **Reference Library** to the .prt created in step #10
2. Set the **Destination Library** to the Zuken library .prt
3. Set the **Output Object** to “Object having different contents...”
4. Select **Execute**
5. **Close** the Warnings

31. Select **Utilities -> Transfer Objects to Copy CDB Library**

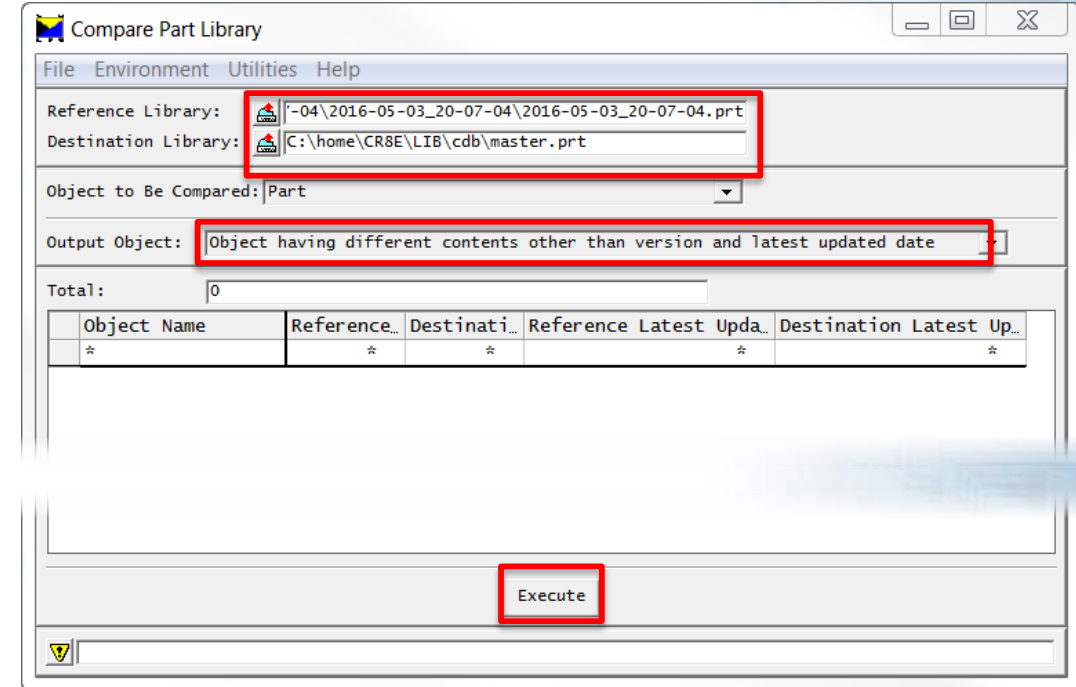
The Copy Part Library form should already have the correct Reference and Destination Library, and the objects to be copied should already be selected.

32. Select **Execute**

33. **Close** the Warning

34. **Close** the Copy Part Library window

35. **Close** the Compare Part Library window



The new component is ready to be checked and released