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Overview

OE projects hosted on the Altium 365 “Workspace” are saved in Altium’s cloud server. All of our library components are also saved here. This poses 3 problems.

1. We trust Altium to never lose our files
2. Our component library is completely dependent on having access to our cloud workspace (note that Altium “caches” your library and files locally - via GIT)
3. Understanding what files you actually fabricated a PCB with and ensuring those never change even with future revisions of the PCB.

This document is a quick introduction to Altium’s **Project Releaser** and **Project Integration Library** exporter.

Project Release provides a static “snapshot” of the project and includes all source/output files.

Project Integrated Library exporter provides an .IntLib library of all project components in a single file (symbols & footprints) for safekeeping and use outside of our workspace library.

End Result

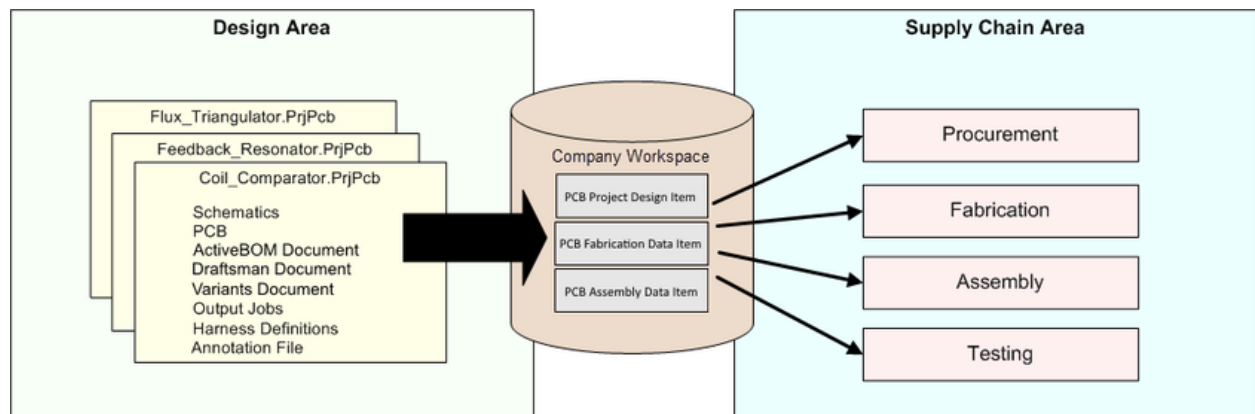
I recommend you export and archive these files external to the Altium 365 cloud workspace.

- Project Release .zip folder
 - *Source files (Project, schematic, PCB design, and IntLib)*
 - *Fabrication Files (Gerbers, etc...)*
 - *Assembly Files (Pick and Place, etc...)*
- Project Component Library (.intlib)
 - *This is optional if the above released ZIP file contains the most recent IntLib file*

Project Releaser

Altiums [documentation](#) is quite good albeit lengthy.

The project releaser tool provides a revision control “packaging” of all the data AS-IS within the project. It is akin to a software version release within a rolling update schedule. The output will be a packaged ZIP file containing the source (design files), fabrication files, and assembly files with a revision stamp that cannot be changed in the Altium 365 workspace. You can always go back and get the files from THAT release.



We have Altium 365 Standard so we can only release REVA.x where x is a number.

This is extremely helpful since output files will always be available immediately and pre-generated. All of the files are available in Altium or in the web dashboard.

← → applied-physics-lab.365.altium.com/designs/46330E2C-DC1B-4866-9CDA-5812E56A05C7?variant=[No+Variations]&activeDocumentId=Top+SchDoc(1)&activeView=5CH&location=[1,99.51,-0.01,18.73]#manufacture

APL Engineering Software Clockify UW Gmail UW - Google Calen... WhenIsGood Associated Press N... Ocean Engineering UW Case and vaccinatio... Weather - Seattle Datasheets, Electro... Altium 365 Worksp... USB_D

Applied Physics Lab
WEC-AUV TR Bottle Integration PCB

PROJECT
Design
Simulation **Beta**
Releases
History
Assembly **Beta**

Releases (2)

Show hidden releases

bsalmi@uw.edu released this 5 hours ago
Fixed major issue with BB computer F8 and P9 backwards. Added text labels.

Open Send to Manufacturer

Hide Files Full Release BeagleBone Variant A.2 Fabrication A.2 Sources A.2

> SRC-WEC-AUV TR Bottle Integration PCB-A.2
> FAB-WEC-AUV TR Bottle Integration PCB-A.2
> PCBA-WEC-AUV TR Bottle Integration PCB-BEAGLEBONE VARIANT-A.2
 SOM
 Bill of Materials-WEC-AUV TR Bottle Integration PCB(BeagleBone Variant).xlsx
 ExportSTEP
 PN_87937-Integration-PCB(BeagleBone Variant).step
 Pick Place
 Pick Place for PN_87937-Integration-PCB(BeagleBone Variant).txt
 NC Drill
 Gerber
 Job1.PDF

bsalmi@uw.edu released this 23 hours ago
Initial release as sent to CM for DFM check.

Open Send to Manufacturer

> Show Files Full Release BeagleBone Variant A.1 Fabrication A.1 Sources A.1

There are no packages sent

Send a manufacturing package picking a release from the list above.
Your sent packages will appear here.

Release Process

It is most appropriate to use the release process at the END of a design when ready to submit to a PCB fabricator. Use the normal Altium 365 workspace GIT based commit system prior to project releasing.

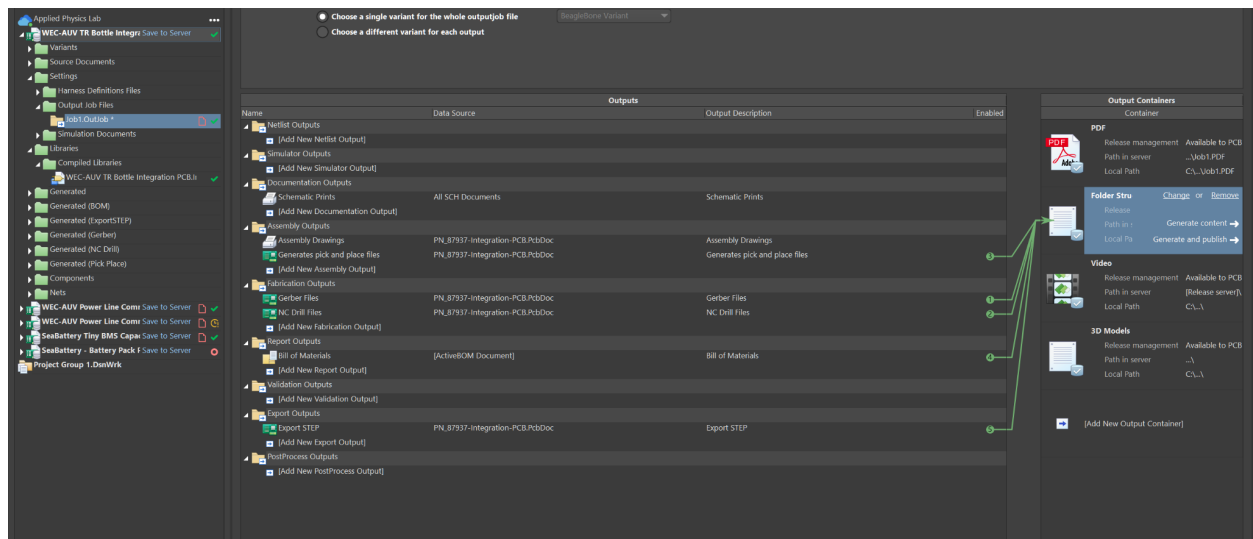
- Complete the entire design process
 - No Schematic ERC errors
 - No PCB DRC errors
- Finalize/Create an output job file
 - Ensure the files output correctly
- Prepare the project release
- Release the project & upload to server

Note that if you need to modify the project after releasing (i.e. scope change, DFM change, error found, etc...) then you simply re-release the project. A new release will increment the revision number.

Because we only have Altium 365 Standard - I recommend cloning the project files to create a “Rev 2” of a PCB for major board revisions and use the release process for only a single board fabrication effort.

Output Job File

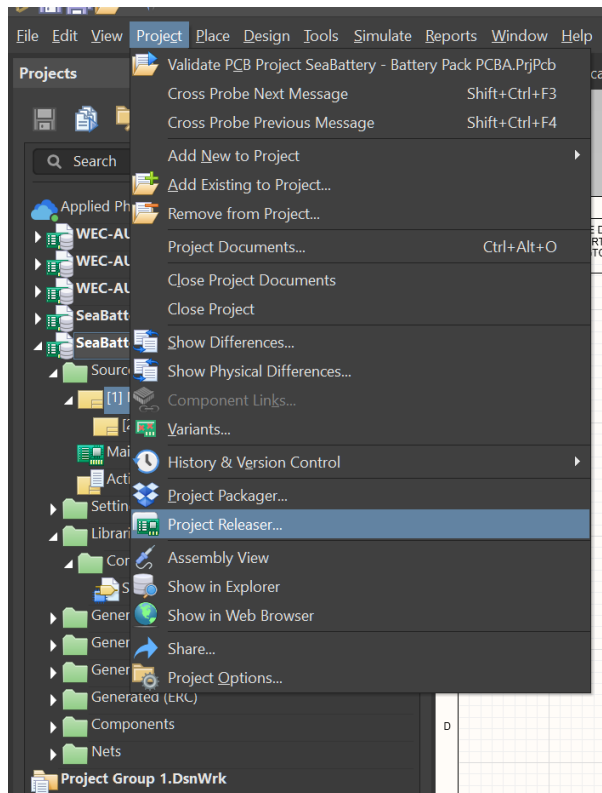
To effectively use the project release tool you need to utilize “Output Job” files for creating output files such as GERBER's and schematics. Output Job files are simply Altium scripts that when run automate the output file creation process.



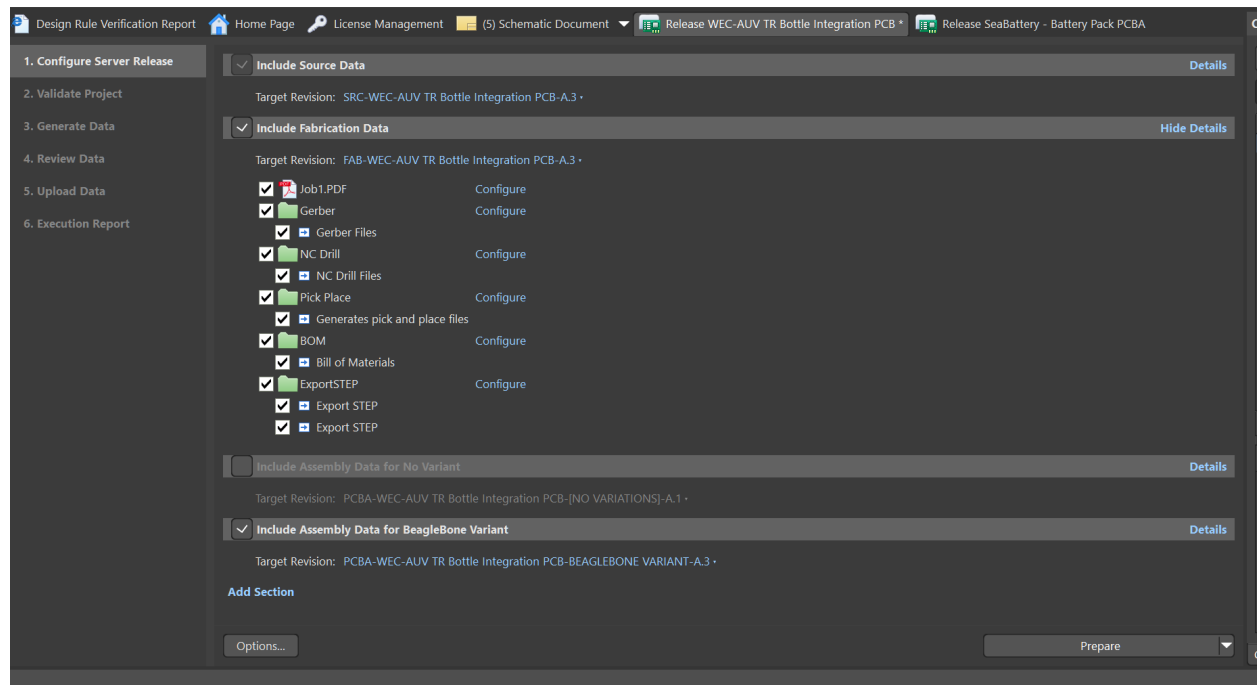
Output Job files are located in the “Settings” folder of your project. If it is not there then right click and add one to the project.

Releasing A Design

To utilize Project Releaser you need to select the menu Design>>Project Releaser.



This will bring up the release tool and you can select the outputs to generate and include in the release (i.e. Source files, FAB, ASSY, etc....). The initial release will be REVA.1 but following releases will increment to REV A.2 and so on.



Click the “Prepare” button and you will be asked to save and commit (always, even if already committed).

The project will start generating all of the outputs, if there are no failures then you can release it and it will upload it to our workspace and the release is completed. If there are failures in the generation (i.e. design rule errors, etc...) you will need to fix or “mute” them and try again.

Design Rule Verification Report

Home Page

License Management

(5) Schematic Document

Release WEC-AUV TR Bottle Integration PCB

Release SeaBattery - Battery Pack PCBA

1. Configure Server Release

2. Validate Project

3. Generate Data

4. Review Data

5. Upload Data

6. Execution Report

Include Source Data

SRC-WEC-AUV TR Bottle Integration PCB-A.3

Explore

Details

Job1.PDF

Gerber

Gerber Files

NC Drill

NC Drill Files

Pick Place

Generates pick and place files

BOM

Bill of Materials

ExportSTEP

Export STEP

Export STEP

Project Files

View

Include Fabrication Data

FAB-WEC-AUV TR Bottle Integration PCB-A.3

Explore

Details

Job1.PDF

Gerber

Gerber Files

NC Drill

NC Drill Files

Pick Place

Generates pick and place files

BOM

Bill of Materials

ExportSTEP

Cancel

Source

Message

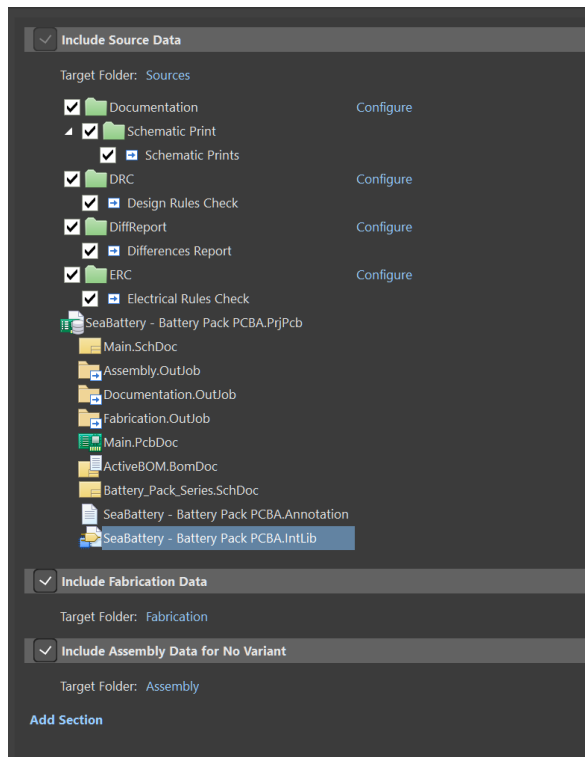
Project Integrated Library Export

A .IntLib file is the most basic form of an Altium component library. An IntLib contains symbols, footprints, and components that link the symbol/footprints and provide other parameters. The export tool can be used to output a .IntLib file for all components in a single project.

Managed Library - This refers to our cloud based Altium 365 workspace library

Unmanaged Library - This is primarily local IntLib files

Note that if you export a library prior to project release you can include the library IntLib within the “Source” folder of the release!

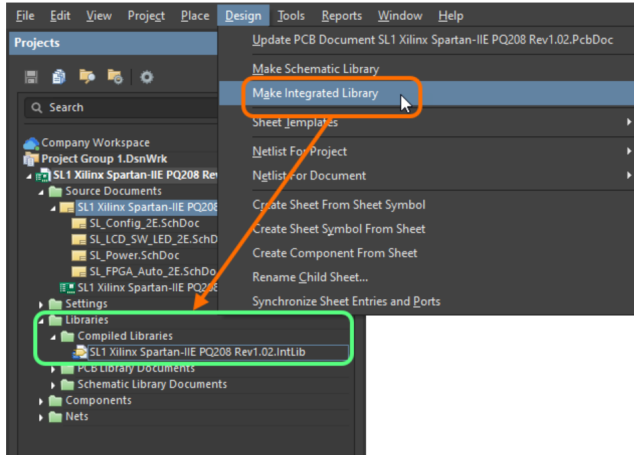


Export Project Integrated Library

Follow [these directions](#).

1. Opening all source schematic documents and making a schematic library.
2. Making a PCB library from the PCB document.
3. Compiling these libraries into an integrated library, named after the project (<ProjectName>.IntLib).

The IntLib is added to the project (under Libraries\Compiled Libraries in the **Projects** panel), added to the Installed libraries (as part of the *Available File-based Libraries* available to any project), and made available through the **Components** panel.

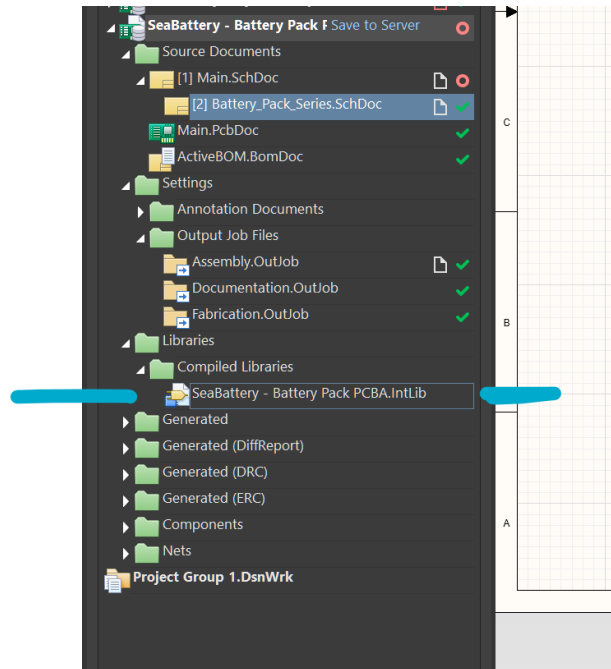


Streamlined creation of an integrated library, directly from the schematic and PCB documents in the active design project.

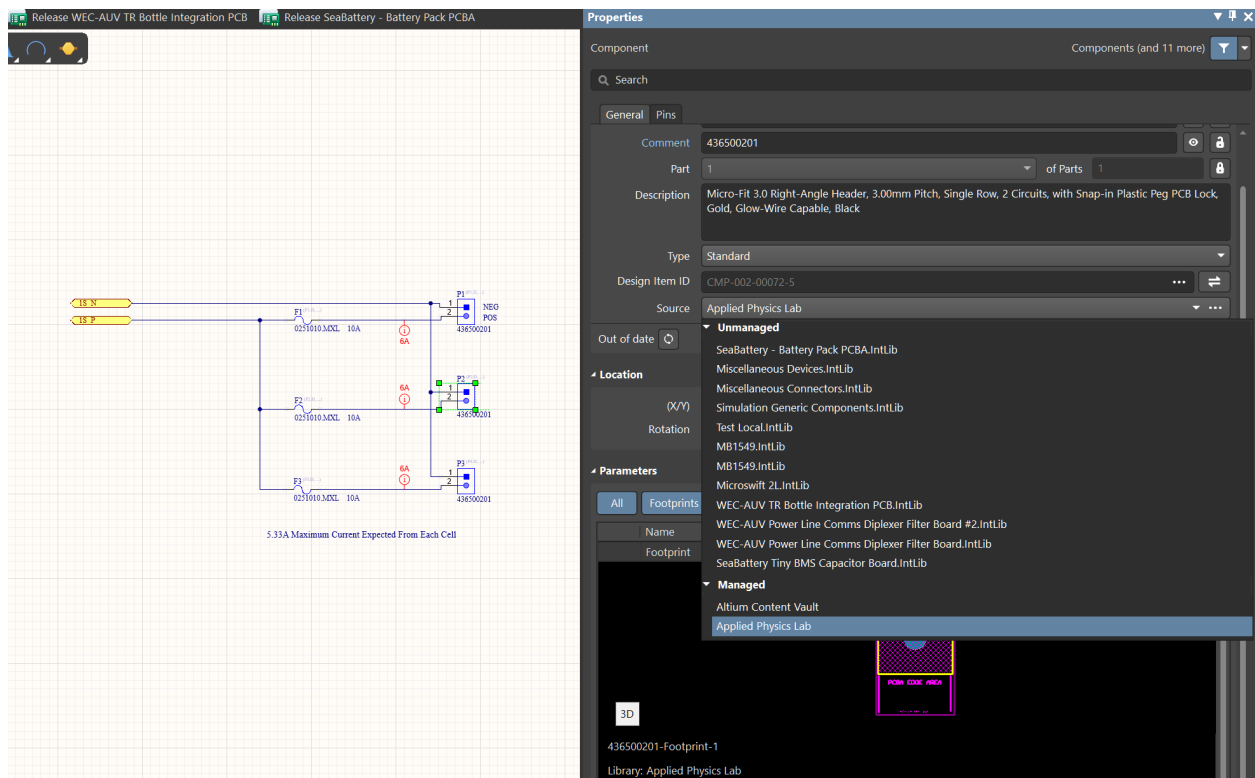
Link Components From Workspace to Local IntLib

If a designer doesn't have access to the workspace (i.e. another team, a contractor, etc...) you can link the components in a project to the local IntLib file.

Ensure the IntLib is generated in the project or open within Altium. Best practice is to ensure it is included in the project:



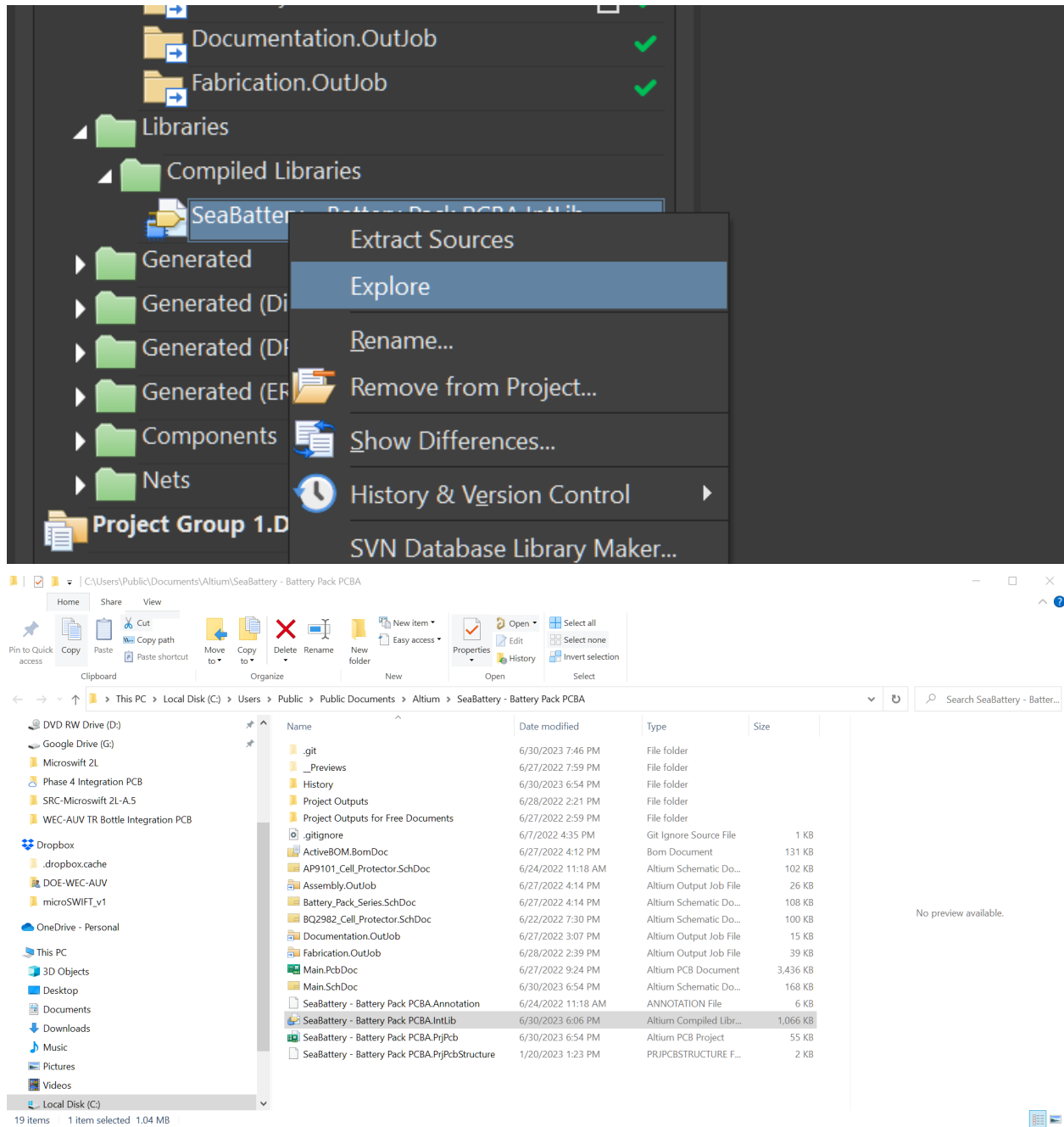
Then click on a component and change the “Source” from the **Managed** server library to the **Unmanaged** local IntLib that is appropriate for the project. Note that you can select multiple/ALL components at once and make this selection.



The component is completely referenced locally via the IntLib.

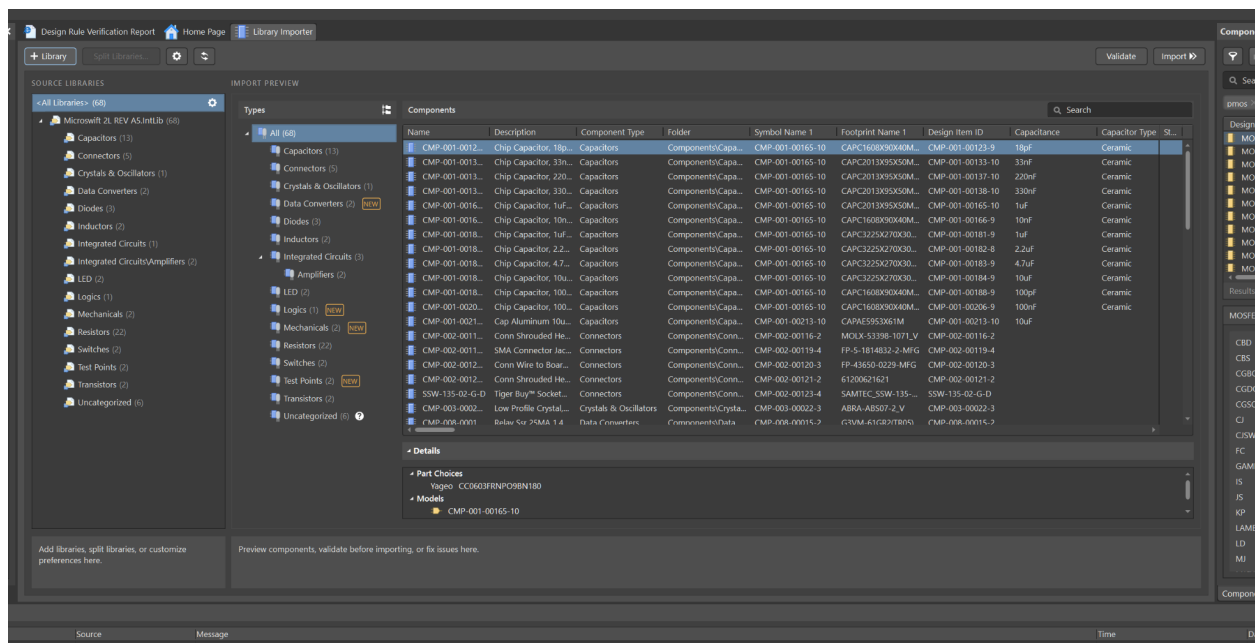
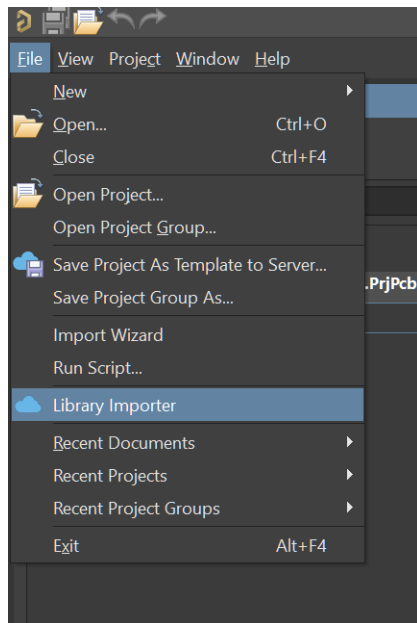
Windows Explorer - IntLib

Right click on the IntLib and select “Explore” and you’ll open the folder containing the IntLib file you can archive outside of Altium.



Library Importer

Library importing is useful to import any IntLib into our **Managed** Altium 365 cloud library. This is useful if the project was made outside of our 365 workspace or if you are importing .IntLib files from external sources such as manufacturers or SnapEDA. Another example is transferring library components between multiple workspaces such as OE and OPD.



This is pretty self explanatory, just make sure you link the component type correctly if it auto-selects the wrong category.