# Make external Vault content your own

With a diligent and skilled operator, developing the single set of reliable CAD models (symbol, footprint, parametric data) for a component can take a long time. From our experience,

**even a simple 32 pin component can take up to 20 minutes for creation and verification,**

and that is assuming all the required information is on hand. Multiple that over the 100s of different components in a given project and considerable man hours are invested before even a design has taken shape.

When working with external sources for design content, whether it is entire circuit design or just components, bringing that content into your team's hands and then modifying it to suit your organization's documentation and PCB layout standards can sometimes be such a big task that sometimes it's almost not worth it.

As the building blocks of any design, components and reference circuits are a critical part of any design project. When sourced externally an organization needs have robust processes in place for adaptation, integration, and checking for everything from the land pattern style to component supply chain preferences.
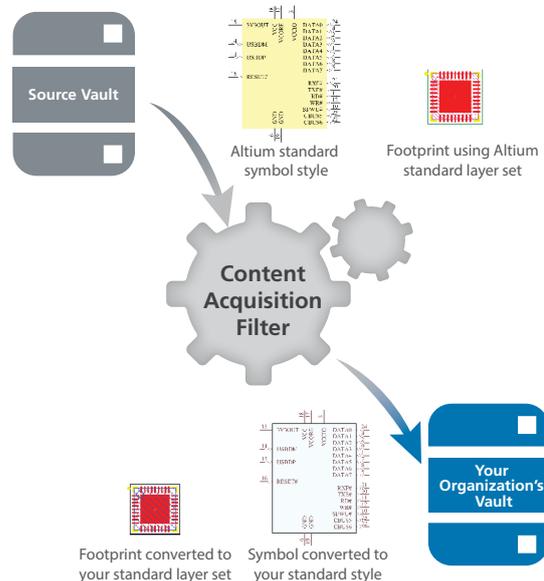
**Covering vendors such as:**

- Texas Instruments,
- Microchip Technology,
- Maxim Integrated,
- Linear Technologies,
- Analog Devices,
- STMicroelectronics,
- NXP,
- Atmel.

Altium's Content Vault provides a rich set of component content. Over 140,000 qualified and validated components each including 3D models and parametric data as well as the typical symbol and land pattern.

But of course, to really make use of externally developed libraries and reference designs, design teams need to acquire them, and modify them to suit their needs, in a **controlled** and **reliable** way.



Avoid expensive re-work on content from external sources: the Vault's customizable Content Acquisition Filter can automatically modify content to match your organization's standards.
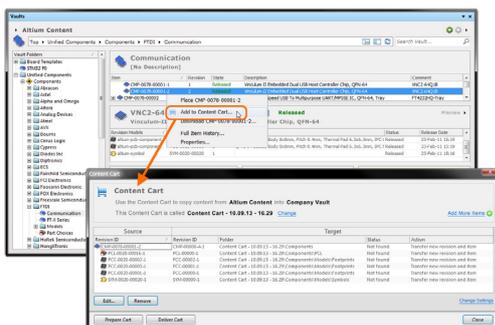
**Altium**

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**What if you could:**

- Avoid component development time altogether ?
- Ensure all externally source components are under your control ?
- Download content from a Vault and have it published in your own vault automatically?
- Save time by automating modifications to acquired content ?
- Eliminate confusion by keeping solid links between your own design content and the original source ?
- Make the most of external design content without the need to stay connected to an external Vault ?
- Safely integrate reference circuits into your project designs that come from an external source ?
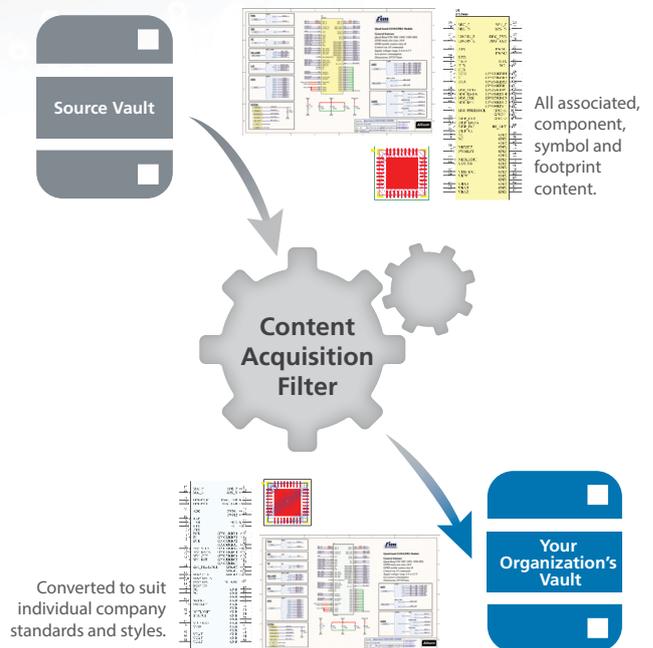
Altium Designer and the Altium Vault Server include data acquisition tools that make all this possible. From components to entire projects, design content can be acquired, modified and published to your own organization's vault at the touch of a button.

Using this approach allows design teams to ensure their own styles, processes and approval mechanisms are not only applied, but remain agile and efficient.

Eliminate the need to manually download design dependencies: Altium Vault transfers all associate CAD data with each schematic and automatically modifies it to fit your own Vault.

No longer waste time or risk human error, externally hosted design content can be integrated into your organization's vault in a safe and reliable way.

Making the most of outsourced or external design content is a balancing act between cost and time reduction and the effort to maintain and control quality and accuracy. Faced with the constant push for faster time-to-market, design teams are more and more weighing up the benefits of acquiring design libraries and reference circuits from people outside their organization.

Ask us today about making external design content your own, using Altium Vault technology.

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