

CUSTOMER SUCCESS STORY

OMNISYS INSTRUMENTS MANAGES DESIGN REVISIONS AND COMPONENT LIFECYCLES TO ENSURE ONLY APPROVED, FUNCTIONING DESIGNS ARE RELEASED.



Introduction

Omnisys Instruments is a Swedish SME with a reputation for excellence specializing in the development and production of complex, high-performance hardware products for the space industry and other specialized scientific instrument applications including ground based antennas and radiometers.

In 1993 Omnisys became engaged in the sequential development of several major projects for Europe's scientific and space industry, ranging from ultra-reliable satellite power supply units to autocorrelation spectrometers. These complex designs incorporate advanced analog, microwave, ASIC and power electronics, and demand exceptional capabilities from both the Omnisys engineers and the design tools they use.

“ Knowing that, once engineers have placed approved parts in the Vault and added components to their designs-what they use, is what they get, is an extremely important requirement of product development team. The life-cycle management capabilities that are inherent in the Altium Vault give us this confidence and are what initially attracted Omnisys to consider the Altium Vault. ”

Mattias Ericson, Engineer, Omnisys Instruments

Omnisys & Altium

When designing for space, the normal constraints of electronics design are amplified by the extreme conditions found beyond Earth's atmosphere. Careful component selection and rigorous testing of designs are required to ensure high reliability after deployment. It becomes essential that only approved components are used and thoroughly prototyped and tested designs are released to manufacture.

Omnisys has been using Altium products since starting in 1993, beginning with Protel and continuing to today with the latest version of Altium Designer. Seeing the potential for managing components and releases, they were early adopters of Altium's Vault technology.

Working with the Vault

The mission critical nature of Omnisys' product development demands that all components are thoroughly documented and tracked. The Vault ensures that every component placed on a board maintains its identity and origin, and that all releases are managed, making it a perfect fit for Omnisys. Since adopting the Vault, Omnisys has enjoyed greater confidence in knowing their design models each have a managed lifecycle. By using the "Where-used" feature, they have been able to easily monitor the use of item revisions which has sped up the overall design process. This feature also helps when making late changes so they can happen more efficiently and with greater confidence. The pain of testing and deploying last minute design changes is greatly alleviated.

Managing the Vault itself has proven to be smoother than separately managing a SVN and collection of DBLibs. Even with a team of 20+ engineers, the Vault can be managed as easily by one individual as it can with multiple members of the team.

Component Lifecycle Management in the Vault has provided the engineers at Omnisys the freedom and flexibility to design to their full creative potential, all while knowing that they are designing only with approved components. By getting it right the first time, they not only save valuable design time but also ensure the project stays under budget.

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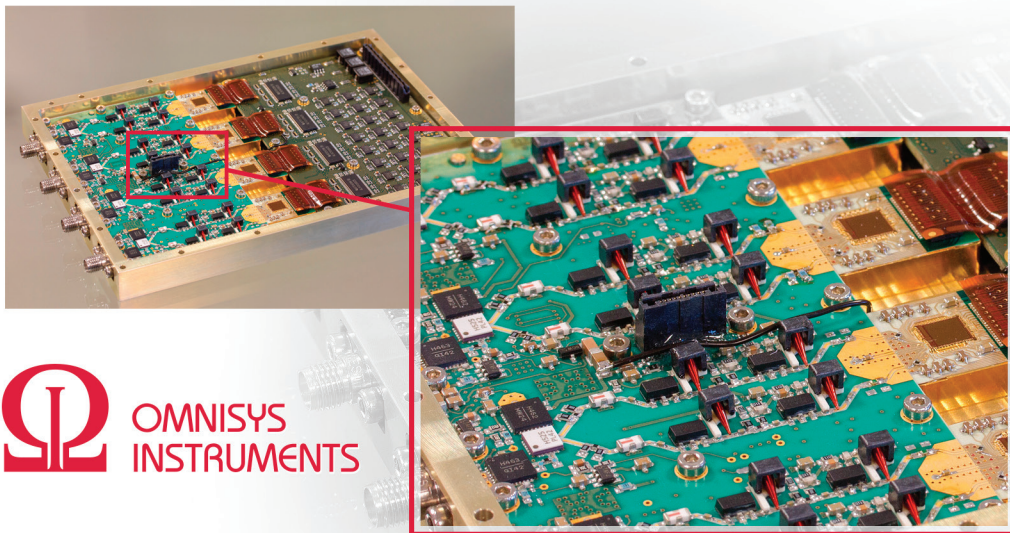
“ Every successful design deployment requires a robust core set of engineering and manufacturing data. Managing that data is key to minimizing waste and ensuring speedy time-to-revenue. Altium highly values input and insight from customers like Omnisys Instruments, because such real-life use cases ensure Altium stays focussed on what is needed for our customers to be successful. ”

Ben Jordan, Sr. Manager, Altium Product Marketing

Looking ahead

The Vault is robust data management system that empowers Altium Designer users with the most advanced feature set for managing design content; from concept to production. With tighter integration between component and release management, parametric search, supply chain intelligence and ActiveBOM, is now possible to realize 'smart' data management in electronics design.

For more information, visit www.omnisys.se



“The STEAMR back end is a four channel, wide band digital spectrometer designed for space applications. It processes 12GHz bandwidth ranging from 3,6-15,6GHz. The key component is the Omnisys full custom autocorrelator spectrometer chip. Each spectrometer channel utilizes two correlator chips, processing 6GHz bandwidth. Surrounding the chips is various support circuits for frequency down conversion, monitoring and biasing.”

ABOUT ALTIUM

Altium Limited (ASX:ALU) creates electronics design software. Altium's unified electronics design environment links all aspects of electronics product design in a single application that is priced as affordable as possible. This enables electronics designers to innovate, harness the latest devices and technologies, manage their projects across broad design 'ecosystems', and create connected, intelligent designs.

Founded in 1985, Altium has offices in San Diego, Sydney, Karlsruhe, Shanghai, Tokyo, Kiev, with value added resellers worldwide. For more information, visit www.altium.com. You can also follow and engage with Altium via Facebook, Twitter and YouTube.