

**Vishal Gaurav**  
Design Manager  
Sanoh India



## Challenge

Japan-based The Global Sanoh Group continues to offer products that provide the foundation for vehicles to “Drive, Turn, and Stop”.

A worldwide network of 82 production facilities in 19 countries enables them to provide a stable supply of products such as metal tubing, plastic tubing, and brazed components to meet the diverse needs of our customers.

Moreover, as technologies continue to evolve and market trends change, we will utilize our accumulated know-how and flexible development capabilities to offer new products and technical services.

As Sanoh India has multiple plant locations in India, it requires a platform to handle data management and to bring together its designers in one place to collaborate effectively, validate prototypes, and innovate. Sanoh India has been a user of Dassault Systemes' CATIA V5 since 2015 and the development team was facing difficulties in collaboration between different plants.

Dassault Systems India Pvt Ltd has Altem Technologies as a partner to provide such a solution which Sanoh India is expecting.

## Solution

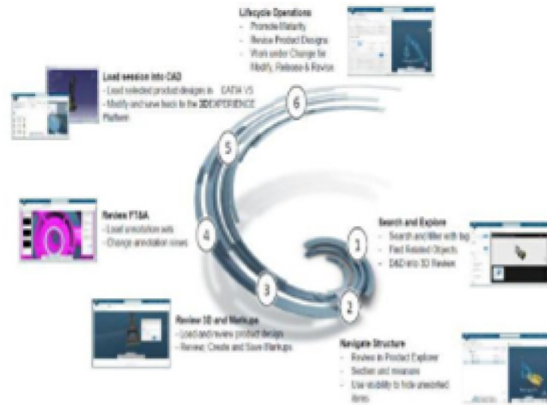
The company is using Dassault Systemes Catia V5 software solution with Collaborative Designer for Catia V5 UE5 connector capabilities which connects Catia V5 to the 3DEXperience platform, enabling secure enterprise-wide sharing of design data.

Using a common product structure, Collaborative Designer for Catia V5 promotes efficient collaboration across disciplines and design teams.

Altem Technologies provided the PCS +UE5 connector to connect the CATIA V5 Engineering. Excellence bundle to the 3DEXPERIENCE Platform on cloud PLM solutions to overcome data sharing and collaboration tasks with their design work.

This software facilitates them to easily share data with different plants and save data to the platform, access lifecycle management capabilities, and search for components. Beyond basic CAD file management, designers can also maintain revision history, manage

tasks and changes, access related documents, organize content, and communicate with colleagues, all from within the CATIA V5 interface.



PCS license Enables efficient team collaboration through secure and simultaneous access to data, lifecycle, and tasks. Viewing 2D/3D – 3DPlay is the basic viewer for viewing, cutting, measuring, and temporary annotations.

UE5 Collaborative Designer for CATIA V5 combines file-based CAD with 3DEXPERIENCE Platform. It gives access to digital design data via a web browser also available on mobile devices. It also helps in effective BOM management for their complex assemblies.

As a partner of Dassault Systems India Pvt Ltd, Altem Technologies is helping Sanoh India whenever any troubleshooting and technical support is required. The Dassault Bangalore team helps and guides Altem Technologies on a regular basis to provide support to the

customer and resolve the issues on time.



## Benefits

The design team has managed to save a significant amount of lead time to carry out the design work hence enabling them to deliver their commitments on time without compromise. “CATIA V5 Connecting Engineering helps in the interaction of CAD data without information loss among various design teams of Sanoh India,” Vishal Gaurav (Design Manager) said. Designers can reuse and improve existing components from previous projects. Sanoh India’s different plant teams can collaborate and manage data with internal teams and others. It has the benefit of time-saving, increased efficiency of design engineers, and quick delivery of solutions by using the Collaborative Designer for CATIA V5.

1. This solution enables digital continuity for Catia V5 data from Design to Validation to Manufacturing.
2. Design Managers can perform detailed interrogation of CATIA V5 design in the mobile-friendly browser using a comprehensive set of tools for sectioning, measurement, and FTA examination to identify issues,



illustrate them using markups, and store them to manage a resolution process.

3. Product Architects can assemble or edit a CATIA V5 structure in the mobile-friendly web browser under the governance of the change process without requiring a CATIA license and then hand it over to a CATIA designer for 3D design work.

These capabilities include centralized data storage, version control, and access control, which help ensure that all team members have access to the most up-to-date project information and can work together seamlessly.

Additionally, the 3DEXPERIENCE platform offers advanced simulation and analysis tools that can be used in conjunction with CATIA V5 to optimize designs and improve product performance.

Overall, the CATIA V5 UE5 connector provides users with a powerful set of tools for managing and collaborating on complex engineering projects, making it an essential tool for many organizations in the manufacturing and engineering industries.

## About Sanoh India

Sanoh Industrial was founded in 1939 as Omiya Aviation Industry. After WWII, we took on the challenge of various businesses, such as brewing and home appliances, venturing into the automotive industry in the 1960s and have grown to be the world's second-largest vehicle tubing manufacturer.

To meet the demands of our customers, we can use a wide variety of materials, including steel, plastic, stainless steel, and aluminum, and deliver products and services to every major automobile manufacturer in the world.

Sanoh's "Corporate Philosophy" is formulated based on three main principles as follows:

Mission/Vision, Corporate Motto, and The Sanoh Way. These are Sanoh's most fundamental principles and beliefs for maintaining longevity (success) as a company while fulfilling our social responsibilities.

**Publication Date : November, 2022**

## About Altem Technologies Pvt. Ltd

Altem Technologies is a well-established 3D digital experience company that has been actively contributing to the industry for nearly 15 years. Initially rooted in PLM software and 3D Printing (representing Dassault Systemes India Pvt Ltd and Stratasys India respectively), Altem has successfully transformed into a prominent provider of comprehensive 3D digital solutions. Altem's 3D Innovation platform



offers an extensive array of products catering to various applications, including design, reverse engineering process, asset digitization, prototype manufacturing, life science, healthcare, culture and heritage, and consultancy services, among others. Altem with a diverse clientele spanning automotive, aerospace, manufacturing, healthcare, research academia, and more, Altem adeptly addresses the unique requirements of each industry through a combination of expertise and innovation. Our team comprises skilled professionals, including Scientists, Application Engineers, Designers, domain experts, and software specialists, all working collectively to deliver exceptional solutions to our valued customers.

Altem Technologies Pvt Ltd, besides being a major provider of 3D Scanning services in India, is also a leading provider of 3D Printing Services in India with 3D Printing technologies like FDM, Polyjet, DLP, Metal, etc. Altem offers a complete solution around 3D Digitization and Innovation and has emerged as a one-stop-shop for all 3D Printing, 3D Scanning, CAE, PLM, and Life Science needs, offering a wide spectrum of products for engineering and life sciences companies in India.

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