

CESA

IMPROVES QUALITY AND PRODUCTIVITY IN PRODUCT
DEVELOPMENT THANKS TO ENOVIA V6



CESA Hydraulic Actuators in the A400M

Challenge:

CESA needed to globally manage information, allowing its entire organization to view relevant technical documentation. It also needed to improve CAD documentation management to better control digital models and manage product changes more efficiently using workflows with greater visibility.

Solution:

CESA has adopted Dassault Systèmes ENOVIA V6 and perfectly adapted it to CATIA V5 within the 3DEXPERIENCE platform.

Benefits:

With this integration CESA can:

- Streamline the processes and the unification of documentation
- Design all its products, including the lifecycle management of the development and production phases and the control of engineering modifications
- Define in detail the workflows and involve end-users in its implementation

Aircraft Corporation, ESO, Avio Space, ACMA GmbH, Liebherr Aerospace, UTC Aerospace Systems, Alenia Aeronautica, BAE Systems and Eurofighter.

Decisive Transformation of the Airbus Group

The transformation of the Airbus group, CESA's majority shareholder, has enhanced and increased the company's synergies with its customers, and at the same time has opened up large business opportunities thanks to the increased potential market, both civil and military. In 2014, CESA saw a 15% growth in sales, coinciding with the celebration of the 25th anniversary of the establishment of the company. By the end of 2014, it needed to complete the certification process for Airbus' A350 XWB prior to the first customer delivery. In early 2015, CESA also expects to inaugurate its Center of Aeronautic Equipments and Systems for the Development of New Products.

In order to manage CESA's complex and varied customer new projects, they needed to invest in a product lifecycle management solution. The main objectives raised while searching for a solution were to:

- Globally manage documentation for a development program, allowing the entire organization to view the relevant technical documentation
- Integrally manage CAD documentation, allowing for better control of digital models and their control of settings
- Work with a greater number of new programs by reducing mistakes and managing product changes more efficiently, using a workflow with greater visibility

CESA, WHICH HAS USED CATIA FOR 20 YEARS, AGAIN ENTRUSTS PRODUCT DEVELOPMENT AND LAUNCH TO DASSAULT SYSTÈMES

Leveraging the knowledge and experience of ADS (Airbus Group), the European company CESA is competing with great success in the fluid mechanics equipment industry and is involved in major civil and military programs. CESA—jointly owned by ADS (Airbus Group) and the American company UTC Aerospace Systems—develops landing systems and equipment, ramps, loading doors and flight controls for the aerospace and defense industry. The company, which exports 48% of its production, contracts more than 300 employees—49% of whom are operators, 44% university graduates and 7% specialists. CESA's expected turnover for 2014 € 80 million, 15% of which was invested in research, development and innovation.

CESA is currently involved in production of the European fighter aircraft EF-2000 Typhoon, in the Eurofighter program, in Airbus aircrafts A380, A400M, A350XWB, C-295 and MRTT; EMBRAER KC-390, S-92 and Tiger helicopters; in Silvercrest and EJ200 engines and in some R&D european projects. Some of its most important customers are Airbus, Airbus Defence & Space (ADS), Messier-Bugatti-Dowty, Labinal Power Systems, Aernnova, Dunlop, Sikorsky



"The Dassault Systèmes solutions are technologically very advanced and their knowledge of the aeronautics industry is very strong."

— Eduardo Chamorro González-Tablas, Technical and Commercial Director, CESA

Prior to the implementation of the Dassault Systèmes 3DEXPERIENCE platform, these processes were carried out with various types of Excel files and applications in Lotus Notes that gave rise to errors. "The technical documentation was not centralized and the CAD files were managed manually," explains Eduardo Chamorro González-Tablas, Technical and Commercial Director.

Standard Tool for the Aeronautics Industry

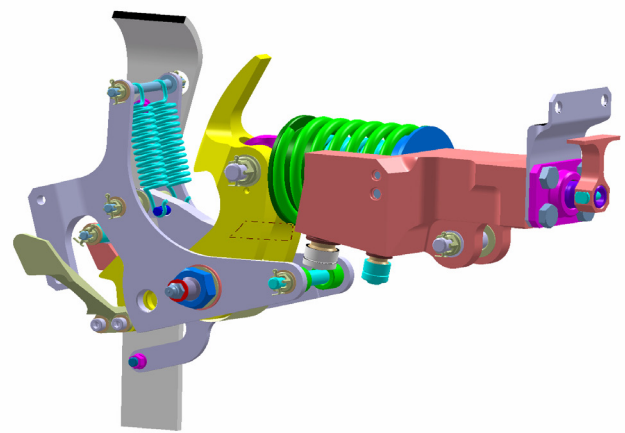
CESA has used CATIA as a design tool for more than 20 years. "The Dassault Systèmes solutions are technologically very advanced and their knowledge of the aeronautics industry is very strong. CATIA is, in fact, a standard within the industry and we must work as our customers do, which is why we have

never considered giving up this tool or replacing it with another,” highlighted Chamorro. Two years ago, while searching for a new solution to optimize the innovation, development and launch processes for new products, they did use other options on the market in addition to ENOVIA V6. However, the perfect integration of ENOVIA and CATIA within the Dassault Systèmes 3DEXPERIENCE platform—especially in view of the future version, CATIA V6—led the company to choose this powerful solution for collaborative innovation.

CESA designs all its products with CATIA V5 and ENOVIA V6, including the lifecycle management of the development and production phases (approval and document management workflows) and the control of engineering modifications (and any associated modification once the product is in production). Given the scope of the project, the workflows are defined in detail and end-users are involved in its implementation. Around 20 users from different departments (development engineering, manufacturing engineering, instrumental landing systems, external production and certification) use CATIA, while 110 users use ENOVIA in almost all areas of CESA.

The main benefit provided by ENOVIA V6 is the streamlining of processes and the unification of documentation. “All users must work in the same way and in the same environment, resulting in an increase in quality and visibility. All scheduled steps must be completed, with an improvement in productivity since complete real-time product information is organized and centralized in ENOVIA,” said the CESA Technical and Commercial Director.

For the future, the aeronautics company hopes to continue to increase ENOVIA’s functionality by integrating it with the company’s other systems—from SAP to e-signature apps—as well as extending its use to the supply chain to achieve true concurrent engineering.



CESA facilities and MLG Downlock Mechanism

Focus on CESA: Thanks to the knowledge and experience of ADS (Airbus Group), the European company CESA is competing with great success in the fluid mechanics equipment industry and is involved in major civil and military programs.

Products: landing systems and equipment, ramps, loading doors and flight controls for the aerospace and defense industry

Employees: 327

Headquarters: Pº John Lennon 4, Getafe, Madrid

For more information: www.cesa.aero

Our 3DEXPERIENCE® platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the 3DEXPERIENCE® Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes’ collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 170,000 customers of all sizes in all industries in more than 140 countries. For more information, visit www.3ds.com.

