



Goodrich Aerostructures Reduced Costs, Improved Service with Automated IPCs

Background

Goodrich Aerostructures, a division of Goodrich Corporation, is one of the world's leading independent full-service suppliers of structural components for commercial, regional and military aircraft.

Challenges

As part of an effort to retain control of essential intellectual property while eliminating wasteful practices, Goodrich wanted to take control of its parts catalog production and distribution by bringing these processes in-house rather than compile and send raw data to an outside catalog producer.

These parts catalogs are an integral source of information for thousands of technicians at 650 customer locations around the globe.

Solution

Enigma's [Aerospace Manufacturing Solution](#) based on the [Enigma 3C ® Platform](#) now builds the new, state-of-the-art illustrated parts catalogs for Goodrich Aerostructures. By pulling parts information directly from Goodrich's internal content repositories, Enigma 3C quickly creates rich, intuitive illustrated parts catalogs, enabling customers to accurately identify and easily procure parts.

Enigma 3C seamlessly integrates with all of Goodrich's technical publications and engineering systems.

XML data is pulled from Goodrich's Teamcenter® product data management system (PDM), automating an otherwise cumbersome process that included complex manual re-authoring procedures.

After all information is combined, Enigma 3C dynamically generates a complete ATA-compliant illustrated parts catalog in uniform formatting, including graphics, tabular data and catalog front matter, allowing mechanics, technicians and procurement staff to quickly find the information they need.

Enigma 3C supports 50 different aircraft programs including nacelles, pylons and thrust reversers.

The Enigma solution was developed in four months and Goodrich was able to create and distribute illustrated parts catalogs in the fifth and sixth months.

"With Enigma's solution, we have complete control over our catalog production process, so we can issue updates on our schedule and without the substantial, recurring costs that come with an outsourced provider," said Dave Lewis, Manager of Technical Publications for Aftermarket Technical Services at Goodrich.

Benefits

- Savings of one to one and a half million dollars per year in production costs alone
- Return on investment (ROI) in just six months
- Reduced time to produce and deliver IPCs by six months allowing for more timely distribution of updated parts information
- Simplified procurement processes for Goodrich's worldwide base of aerospace and defense customers
- Significantly decreased misorder rate
- Improved overall procurement and logistics processes
- As the Enigma system is fully automated, no training to use the platform was necessary

"With one publication cycle, we recouped the cost of the Enigma system and are now providing better customer service while continuously reducing expenses," said Lewis.