



TDUR – Technical Data Upgrade Repair for Single Aisle / Long Range / Wide Body Repair Documentation

Challenges & Benefits

The objective of the Technical Data Upgrade Repair (TDUR) project was to provide Airbus customers with all major Repair Domain documentation products for Single Aisle (SA) / Long Range (LR) / Wide Body (WB) programmes using the full Airbus consultation and navigation services offered by the AirN@v product suite.

Therefore a migration of the affected documentation to the existing A380 Engineering Domain Publishing System (edps) was necessary.

The challenges were customer-related strategic business objectives like:

- Define and implement Repair Domain upgrade products for SA / LR / WB.
- Extend added customer value of Airbus consultation service offering (AirN@v product suite) to SA / LR /WB repair documentation products.
- Migration of all SA / LR / WB documentation products to a consistent standard and platform of tools (based on current A380 edps) within the Technical Data roadmap timeline.
- Support migration of obsolete IS Tools to common supportable platforms.

The following strategic objectives were supported by the project:

- Retirement of legacy applications
- Reduce data redundancy and interfaces
- Backbone deployment
- Benefit from SAP infrastructure at Airbus
- Reduction of recurring costs

Solution

A migration from different formats to SGML/XML was performed in several steps:

1. Transformation from different formats (SGML, Word, Interleaf, FrameMaker, Word-Perfect) to valid SGML/XML according to the edps internal DTDs.
2. Transformation or possible new solutions for different tables to new database paradigm or new interfaces.
3. Rewriting the existing page-block content to content suited for tasking.
4. Removing major text parts from illustration into text, so that links and configuration information does not occur on illustrations anymore.

Acando – Your Partner

Acando is a consultancy company that in partnership with its clients identifies and implements sustainable business improvements through information enabled by technology. Acando provides a balance of high business value, short project times and low total cost. Acando's annual turnover is about EUR 160 million and the Group employs approximately 1,100 professionals in six European countries. Acando is listed at NASDAQ OMX Nordic. Acando's corporate culture is based on three core values: Team spirit, Passion and Results.

Repair documentation currently migrated

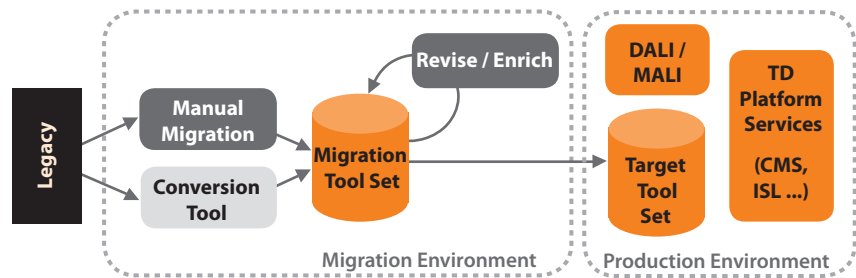
- CMM (Component Maintenance Manual)
- NTM (Non-Destructive Testing Manual)
- ARM (Aircraft Recovery Manual)
- AC (Airplane Characteristics for Airport Planning)
- MFP (Maintenance Facility Planning)
- DFPRM (Duct and Fuel Pipe Repair Manual)

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The following technical solution was implemented:



Migration Environment

The software and processes needed to perform a migration from Legacy to edps A380 compatible structures and content.

Manual Migration

Manual translation of the format (MS Word, Framemaker, ... ® XML) and structure (Page Block ® Task/Description) as well as the enrichment of the content (effectivities, facts, illustrations, cross references) requires different skill levels.

Conversion Tool

Software for the automatic translation of format (Word, Framemaker, ... ® XML) and structure (Page Block ® Task / Description) as well as the enrichment of the content (effectivities, facts, illustrations, cross references).

Migration Tool Set

A container for the migrated content used for manual revisions like consistency checks or enrichments.

Target Tool Set

A container for the content of all A/C programs used for integration into the overall Technical Data platform services and workflow processes. The data assembly production chain retrieves content from this container to produce a manual or revision..

Production Environment

The software and processes for the authoring of structure / content and the production of the manuals.

Main advantages of the TDUR migration project

- Uses the same software basis as the chosen Target Tool Set
- Provides the proven authoring and quality control functionality of the existing system allowing low-skill workers and automatic conversion tools to produce integrated Documentary Units with maximum quality.
- Gives Airbus experts the opportunity to check the quality and track the migration progress as early as possible.
- Proves to be the best approach for maximizing integration while minimizing development costs.
- Allows for building and testing the generic manual/chapter approach without side effects on the A380 production process.
- Allows early testing in production chains.
- Restricts the subcontractor's data/system access.

