



## Corena Data Migration

*Business Transformed: Corena Denmark leverages Imfinity's data migration expertise to enhance its DMS solution for Aviation industry.*

### Customer Introduction

CORENA is a well-established software company offering document management and system integration of comprehensive and critical information.

It's clients are world class companies like Boeing, Bombardier, Scandinavian Airlines System SAS, Singapore Airlines, Rolls-Royce. Most of their jobs are in industries like Aerospace, Aviation, Defense, Offshore, Publishing and the Finance sectors.

Since 1989 CORENA has provided their customers in Europe, North America and Asia Pacific with highly structured documentation such as technical manuals in order to optimize mission critical production.

CORENA is headquartered in Denmark and globally organized to do business locally. Offices are established in Norway, Germany, the UK, and in the USA and Canada. They assist and support the customers with a network of partners in the Czech and Slovak Republics, Singapore, Indonesia and North America.

### Business Situation

Corena's Document Management system, the LifeSTAR product line is based on the XML/SGML open standard technology. This system ensures high data accuracy, reliability and integrity by consistency in configurations and versions. The repository allows data to be reused in many forms, which ensures high flexibility and customization of production processes.

The technology distributes final documents in any kind of format and in multiple languages onto multiple media like print, CD-ROM, the web and to more recent devices like PDAs and wearable computers.

Corena required a technology partner to devise a migration strategy to help its customers convert aviation manuals written in PDF and SGML into XML that can be stored in its document management system.

Imfinity were chosen for 2 data migration projects:

1. SAAB – SGML to XML for 2 of their aircrafts maintenance manuals. 100,000 pages needed to be migrated and maintained in a DMS called LIFE Web. The new format was to make maintenance process much easier, digitize into a standard format as per compliance regulations and help in integration with other systems with the help of XML.
2. Lockheed martin – C0130J aircraft – PDF to XML conversion of the entire aircraft maintenance manual

### The Challenge

Imfinity were faced with the following challenges:

1. Accuracy of the data migrated has to be 100%.
2. Compliance with ATA (Air Transport Authority) 2000 standards
3. Completeness – all information has to be accounted in the destination format as these are critical documents used by aviation teams.
4. PDF is difficult to extract – only way is to extract as text or images which is not structured – need to map this data based on certain rules

### Case Profile

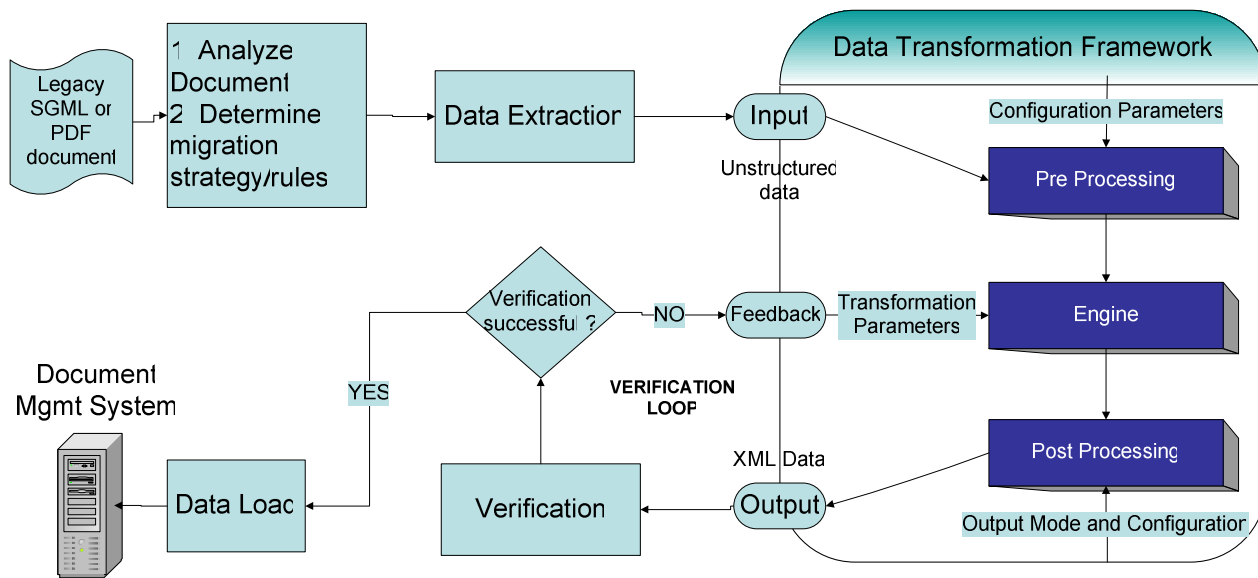
**Data Migration of Aviation manuals for Corena Denmark**

**Duration::** 12 man months (ongoing)

**Technology used::** Data migration. Programming languages used include Java, .NET, Perl

**Services::** Product Architecture, Migration, Development & Training

**Results::** Migration cost per page was cut down from 15 Euros to 2 Euros, Achieved 100% accuracy of migrated data, reusable engine for various types of data migration.



Architecture overview of the Data migration and transformation solution implemented by Imfinity for PDF and SGML documents.

## Imfinity's Solution

Imfinity's Solution consisted of the following steps

1. Extract text and images separately from the PDF document. This was done using an extraction toolkit. The formatting information and relative position in this document was kept as meta information.
2. Using the meta info, rules were created to place the text and images in a structured format. Rules engine for SGML consisted of a set of XSLT files. For PDF, both XSLT and .NET based rules were used.
3. Incremental procedure was followed. After 4 steps, the target document was reached

4. Target document was loaded into the DMS which displays it in a readable format and can be published as a CD

## Product value adds and Results

- Migration cost per page was cut down from 15 Euros to 2 Euros.
- Migration procedure for an entire maintenance manual can be completed in 30 minutes
- A total of 10 manuals have been migrated now – using the same migration engine developed.
- Accuracy was achieved - Quality and output of the migrated documents was 100%
- Reusable migration engine – different revisions of the documents can be migrated with very little changes to the rules engine.

# imfinity

*Transforming businesses*

Imfinity is a Software Product Outsourcing company that helps ISV's and software companies build competitive products to achieve market leadership and product excellence.

Balancing time to market pressures and superior quality is our forte at Imfinity, and that is the essence of the value we bring to our clients. We bring you the much needed technical expertise, outstanding people and quality processes to build great products, on time.

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