

## The Client

World leading aerospace company

## Industry

Aerospace

## The Business Challenge

The Company-wide Implementation and Enhancement project represents significant expansion of data distribution systems for new stakeholders and new user communities across the company.

The project supports processes of retention of metadata and providing end user with link to the actual data in retrieval systems.

End users include various groups – internal users like engineers and users considered as suppliers.

User community distribution – worldwide.

Suppliers should have an ability to navigate through metadata for data to be distributed to them, search using various criteria, view and download documents from the client's various systems (Data retrieval, content management, etc).

## The Solution

Luxoft team started working on this project from redesign of the existing data distribution application. Initially this application was developed for Mainframes using Fortran language in 70th. Luxoft experts are working closely with the client to define requirements and architecture.

As a result of this redesigning, web-based system was developed and successfully implemented. It has two main subsystems:

- The first subsystem stores current and historical metadata and distribution to them. The subsystem is an approved authoritative source to identify & maintain distribution requirements and distribute physical and digital product definition data to internal company personnel, external company partners, and suppliers. It is currently implemented on 5 sites.
  - It provides flexible interface to set up distribution for user on different media. Distribution Requirement represents a requirement to distribute one and more than one data item to one or more than one recipient (internal recipient or supplier) on regular basis (whenever data is released or allowing to retrieve data item on ad hoc basis). Several types of Distribution Requirements are supported:

## Project Facts:

- Functional area  
Strategic Investment Group
- Technology set  
ORACLE, PL/SQL, J2EE, WebSphere as Application Server, Web services
- Number of users  
60 internal users; 2300+ Supplier users worldwide
- Team size  
30+ people working in Moscow, Omsk and Seattle
- Duration
- Ongoing project



- distribution requirements for particular data item and particular recipient.
- distribution requirements for particular recipient and a group of data items identified by some parameters.
- distribution requirements for particular document to be sent all recipients.
- Based on set up distribution requirements data is provided to end-users through different ways:
  - Physical copy. It is reproduced and delivered to user by data shipping Electronic access to data with possibility to look up documents directly in external system and download.
  - The new system provides entitlements to external retrieval systems. These entitlements are notifications about data availability for particular Supplier based on distribution which is set up for this supplier and Authorization/Export Control regulations.
- The second subsystem is considered to be the external supplier's view of Product Definition Data (ie drawings, document, specification, etc) Distribution. It is considered as an approved authoritative source for change notification and access to PDD. The subsystem provides viewing, downloading, tracking and reporting of product definition data. It has the following functionality:
  - Keep Up To Date (KUTD) Records - Lists all distribution requirements specific to a Supplier. Data items can be disputed, ordered, and viewed (if available in online system).
  - Change Log Records - Lists new or revised data items specific to Supplier KUTD requirements. Data items can be acknowledged, rejected, ordered, and viewed (if available in online system).
  - Delegated Distribution Requirements Records - Lists all delegated distribution requirements specific to a Supplier. Data items can be viewed (if available in online system), delegation can be removed.
  - Tracking Records - Lists supplier initiated changes to record items including acknowledgements, rejections, disputes, etc.

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