

INFORMATICA

MANAGEMENT

CASE STUDY: UK'S LARGEST RAIL OPERATOR 360-VIEW OF ASSET

INTRODUCTION

Every year 1.3 billion journeys are made on Britain's Railway Network and 100 million tonnes of freight is transported by rail between ports, factories and shops.

This UK rail infrastructure company run, maintain and develop Britain's rail tracks, signaling, bridges, tunnels, level crossings and viaducts, as well as 17 key stations.

CHALLENGE

As part of its Information Management strategy to manage data relating to its track assets, this organisation has implemented Informatica Master Data Management within their Information Organisation.

The scope of the project included - the mastering of Track Asset information across four source systems; creating a Single View of Asset; the establishment of track metadata, in the form of Asset Information Specifications for the whole asset life cycle; and the design and implementation of the Data Governance processes and procedures within this railway infrastructure organisation.

APPROACH TO THE ENGAGEMENT

As leading exponents of Information Management Strategy, Master Data Management and Data Governance solutions, Entity provided a number of services to this UK rail infrastructure organisation in support of the £300m ORBIS Programme to drive safety and efficiencies across its operations. These included:

- An Audit / Health Check of the third party managing the Master Data Management project;
- Programme Management services to perform the role of the infrastructure organisation's Client Side Project Manager coordinating multiple vendor streams of activity;
- Analysis to facilitate the design, documentation and implementation of Data Governance processes and procedures required in their Asset Information Organisation (Aligned to ISO 8000);
- Support of the Commercial and Vendor Management of third party system integrators;
- Management of the integration of the Informatica MDM solution to downstream services.

PROGRAMME PHASES

Programme phases focused on the analysis and implementation of key components of the Information Management strategy, included:

- **Phase 1** – Implementation of the Informatica Data Integration Platform toolset into their organisation.
- **Phase 2** – Data analysis and profiling of legacy data systems for multiple Asset data layers (What, Where, Condition, Work).
- **Phase 3** - Integration and configuration of the Informatica software for Track Assets, creating a Single View of Asset across source systems;
 - Creation of an Asset Information Specification for Track and Non-Track asset types (including Electric and Power, Signals, Drainage, Earthworks, Buildings, Structures, and Wheeled Plant)
 - Asset Information Specifications comprising of:
 - Catalogue View
 - Functional Assembly View
 - Installation View
 - Operational View
 - Line of Sight to Wider Knowledge Base.
 - Creation of Master Reference Data for Standardisation and Data Quality Validation
 - Identification of data quality exceptions for resolution via the Data Governance process.
- **Phase 4** – Re-configuration (based on findings) and full load of Track Asset Data and the handover of technical support and business processes to IT and Business Operations.
- **Phase 5** – Ongoing integration of the Single View of Asset with downstream systems [EDW and Decision Support Tools].

OUTCOMES

The UK's largest railway network infrastructure operator now has a functioning Data Governance Organisation, and appropriate information management solutions across Asset Lifecycles, for ongoing management of Asset Information for the rail network.