Deutsche Bahn: Optimized maintenance and servicing management with inxire Digital Maintenance

Client

DB

The Deutsche Bahn group is an international provider of mobility and logistics services and operates across the world in over 130 countries.

Product
inxire Digital Maintenance

Project
Creation of rules and standards for the maintenance of vehicles at DB Fernverkehr and DB Regio

Challenge

The Deutsche Bahn group transports more than 12 million people on a daily basis on passenger transport across Europe. This outstanding achievement in terms of logistics would be unimaginable without a sophisticated maintenance and servicing management system.

Some of the challenges that the transport company faces are the growing number of trains and models, increasing time and cost pressure as well as strict legal regulations regarding the transparency and traceability of maintenance documents.

Deutsche Bahn creates and manages its maintenance documentation in the form of work instructions and maintenance manuals. In order to ensure that operations run smoothly, the group must provide these to the maintenance facilities at any time in the most up-to-date version. In addition, the complete creation process must be verifiable without any gaps.

For the railway vehicles of DB Fernverkehr AG and DB Regio AG, this complex process took place in a historically accumulated IT system on the basis of an SAP database. However, the heterogeneous system landscape became less and less suitable for the needs of the several hundred users due to the increasing technical and specialist requirements. Amendments, maintenance and technical operation were also no longer practical for economic reasons.

Solution

In 2012, Deutsche Bahn realized that they needed to embrace digitalization to be able to meet all of the requirements for maintenance and servicing in an economically reasonable manner.

In a Europe-wide call to tender, they looked for a maintenance system which could be used in the long term and which not only supported their creating and administration processes, but also significantly sped them up through digitalized and dynamic workflows. At the end of the call for tender, in which many well-known providers participated, Deutsche Bahn chose inxire Digital Maintenance.

The innovative digital platform has thus prevailed against international competition and has supported the transport company since then in the creation of rules and standards for the maintenance of vehicles.

The intelligent and flexible review and publication mechanism in inxire Digital Maintenance ensures that all those involved can develop their documents in a traceable, uniformly structured and compliant manner. The preparation and publication is carried out specifically to each target group and in various media formats such as XML, PDF, Microsoft Word or Web.

inxire Digital Maintenance uses the internationally relevant standards. It unites the flexibility of DITA with the structured and tried-and-tested concepts of DocBook, supports S1000D™, as well as all of the processes in Entity in Charge of Maintenance (ECM).

Parallel review processes, reusable documentation building blocks and the use of control data such as maintenance levels, types of construction or model ranges all guarantee significant savings in terms of time and costs along the entire formation and implementation process and beyond.

Result

The digitalization of Deutsche Bahn permeates all areas of their business today. inxire Digital Maintenance has contributed significantly to this. The software has clearly improved the maintenance and servicing management of DB Fernverkehr and DB Regio.

Amongst others, the company has benefited from a significant reduction and optimization of the effort required

Digital Maintenance

Product information

Creation, maintenance and automatic compilation of digital rules and standards

Process validation for continuous quality assurance

Predictive maintenance through real-time threshold value analysis

Compliant archiving

Support of S1000D™

Output formats for web, mobile, office or print

Support of augmented reality

"The topic of digitalization is very important to Deutsche Bahn. The inxire Digital Maintenance platform is an important component in this, which not only pushes us forward economically, but also with regard to the satisfaction of our clients."

Margit Olbrich,
IT Use, Diagnosis, and Predictive Maintenance,
DB Systemtechnik GmbH

to create rules and standards. The system is also being implemented in other areas of the group, such as DB Cargo. With inxire Digital Maintenance, Deutsche Bahn now has a platform which will join the company on its journey into the digital future.

"For us authors, inxire Digital Maintenance means an enormous reduction in workload. We can create the documents significantly faster and more easily than before, and the release processes have also become a lot shorter. All of the necessary data is compiled from different sources in inxire. So we can be sure that everything is always up-to-date."

DB Regio AG, DB Fernverkehr AG

About inxire

inxire is a product and service provider for enterprise digitalization. inxire products lay the foundations for new digital solutions and business models and allow companies to use their full digitalization potential. Numerous major clients worldwide, including Deutsche Bahn, Volkswagen, the Bundeswehr (German Federal Armed Forces), HypoVereinsbank, and Talanx have already sped up their digital transformation with inxire.