

Retrofit Marshalling Yard Senftenberg with New Control Technology

"With their know-how and high degree of commitment, Kontron AIS contributed to the successful project fulfillment in due time."

Falk Hebenstreit, DB Netz AG,
Head of Production Planning
and Controlling Dresden



DB Netz AG
Dresden

Platform:

Real-time operating system
Linux, VAC, Windows Server
2012 R2, Windows 10 IoT LTSB

Project:

Implementation of a new rail brake control system for the marshalling yard Senftenberg

Kontron AIS services:

Planning, construction management, electrical installations, hardware and software supply, approval in accordance with EN50128 (SIL2), test operation, commissioning



Goals

- Sustainable control platform
- Long-term availability of hardware and software
- Retrofit without operational interruptions



Challenge

- General contractor for the entire rail brakes control project
- Short commissioning period
- Application of new control platform



Results

- Goal achievement on time and in budget

Through Kontron AIS GmbH, DB Netz AG, under the project management of DB Engineering & Consulting GmbH successfully completed a control system retrofit for the marshalling yard Senftenberg by the aid of the new VarGBS track brake control system. Within only two months of commissioning under "rolling wheel", the old control technology for two retarders and 19 secondary retarders have been replaced by the new control system generation VarGBS.

Step-by-step – VarGBS generation 8

In the design of this innovative product special attention was paid to the fact that the system VarGBS is suitable for the renewal of existing plants with scalable granularity. In addition to a completely new hardware platform for marshalling yards, the real-time operating system Linux RT was used for the first time. On top of that, the already existing system could be migrated without any adaptations thanks to an innovative architectural approach.

The simultaneous adherence to time and costs, as well as the future-proof control system that is now ready for the future make this project a complete success.

About DB Netz AG

The approximately 41,000 employees of DB Netz AG are responsible for operation and maintenance of the largest rail network in Europe. DB Netz AG is the railway infrastructure manager of Deutsche Bahn AG and responsible for the 33,300 kilometer long rail network, including all operationally necessary installations. Around 40,000 trains per day are averagely running on the infrastructure of DB Netz AG. The key task is to provide a high-quality, highly available and non-discriminatory infrastructure for around 420 railway undertakings and to manage the infrastructural operation. This includes the compilation of timetables in close cooperation with our customers and the repair and maintenance of the rail network. Additionally, the railway infrastructure is further developed by investing in the existing network, in modern command and control equipment as well as in new lines and the upgrading of existing lines.

For more information please visit: www.dbnetze.com

About Kontron AIS GmbH

We set the benchmark in industrial software – for more than 30 years and with an experienced team of over 200 employees. Our proven software products and customized digitalization solutions enable machine and equipment builders as well as factory operators to break new ground in automation and secure long-term competitive advantages. Together with our customers we implement worldwide cross-industry, intelligent digitalization strategies and solutions for the smart manufacturing of tomorrow.

As a subsidiary of the Kontron AG, we offer integrated, end-to-end IoT concepts consisting of hardware and software as well as worldwide project management, service, and support thanks to a global network.

For more informationen please visit: www.kontron-ais.com