

A CONTINUOUS SOLUTION FOR RAILWAY INFRASTRUCTURE AND ROLLING STOCK ASSET MANAGEMENT

New IT systems for asset management are essential to ensure the reliability, availability, maintainability and safety (RAMS) of railway infrastructure or rolling stock, argues **Marco Mendritzki** of PC-Soft GmbH.

Using continuous solutions that allow the integration of consistent, up-to-date condition data into all decision processes, creates big potential efficiency improvements and cost reductions. PC-Soft GmbH has specialised in developing and implementing this kind of software system for the challenging railway market since 1990.

The management and maintenance of linear infrastructure is characterised by complex requirements. Therefore, the recording of load data (over runs, tonnages, etc), integration of inspection reports plus analysis of measurements (gauge, cant, etc) are used in zedas@asset to detect asset condition changes, including weak points. The results form the basis for calculating maintenance due dates, based on time, load or state.

Integrated modules like Track Analyser allow the visualisation of linear geometry of a stretch, including important information

about the general condition of tracks, switches, crossings, catenary, signalling and safety systems. Condition information and measured data (including historicised datasets) can be shown and compared to the exact position (coordinates or kilometrage) via different filter criteria.

Using the portable solution, zedas@mobile, all stored system data (e.g. asset condition, maintenance history, meter readings, documentation, checklists, upcoming tasks, etc) are available for the staff on-site. Preventive and corrective maintenance activities, measurements or occurred faults can be recorded by the engineer right at track site.

For rolling stock

Managing rolling stock has its own challenges for investors, owners, operators and the manufacturer. Since investing in vehicle fleets takes significant financial

efforts, the minimisation of lifecycle costs is the key to economic success. The asset lifecycle management system zedas@asset provides the required IT solution for these companies.

Using up-to-date operating data for mathematical analysis allows the user to evaluate and predict the condition of vehicles. In this way, the system minimises maintenance costs, downtimes and verifiable faults. In addition, the tracking of warranties and validation of LCC agreements are supported, as well as the management of staff, equipment and materials for workshops.

FOR MORE INFORMATION
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PSS 4000-R Safety PLC

- ▶ Reduces system risk, design time, installation time, on site testing and maintenance
- ▶ Compact design enables easy installation in trackside location cases
- ▶ Low power requirements, immunity to EMC and vibration, high self-diagnostic capabilities
- ▶ Simplify your verification and validation process due to PSS 4000-R CENLEC rail certification with system capability up to SIL 4



Safety PLCs Certified for Railways - Trackside & Rolling Stock Applications



Pilz has been working with Network Rail on the adoption of PLC technology into UK signalling applications, such as MCB-OD level crossings. Pilz also supplies complete plug-and-play automation systems to the UK rolling stock industry.

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