



Salzburger Lokalbahn | AT

Hands-on training and efficient troubleshooting

/ LIFE CYCLE SERVICES

Frauscher supported the Salzburger Lokalbahn, a regional railway in Austria, with a service assignment that included both the maintenance of Frauscher wheel sensors and axle counters as well as hands-on training for the installation personnel. The customer benefited from efficient troubleshooting and tailored training delivered directly on their own equipment.

Background

Salzburg Linien Verkehrsbetriebe GmbH (SLV) operates the Salzburger Lokalbahn, an extensive rail network that connects Salzburg's main station with the northern Flachgau region and the neighboring state of Upper Austria. The focus of this project was the line to Bergheim, where the Frauscher Axle Counting System ACS2000 and the Wheel Sensor RSR180 are in use—the latter having been deployed in that section for nearly 30 years.

Ongoing maintenance of Frauscher products is carried out by the Salzburger Lokalbahn's in-house team. However, over the decades, natural staff turnover has led to a gradual loss of specialised knowledge for maintaining various systems across the network. With Frauscher products, this issue was compounded by the infrequent need for maintenance. Faults in two sections of the line eventually prompted the operator to contact Frauscher for servicing and training.

Operator	Salzburg Linien Verkehrsbetriebe GmbH
Partner	Salzburger Lokalbahn
Country	Austria
Segment	Commuter Rail (S-Bahn)
Application	Track Vacany Detection
Service Period	Summer 2024
Scope of Service	Maintenance, Training
Products Serviced	ACS2000, RSR180

Service Solution

The goal of this service assignment was to carry out maintenance, resolve intermittent issues, and provide comprehensive training to the Salzburger Lokalbahn's maintenance staff. The solution consisted of two key components – maintenance and training – and was enhanced through the use of digital tools.

/ Maintenance work

Frauscher's service team carried out maintenance on both trackside components and indoor equipment. Over a three-day period, all wheel sensor installations were inspected and adjusted as needed. An inventory and detailed check of the indoor components were also conducted. This included verifying sensor currents, replacing components, and testing the diagnostic system. Frauscher then provided the Salzburger Lokalbahn with a report documenting all measured values, serial numbers, and required adjustments.

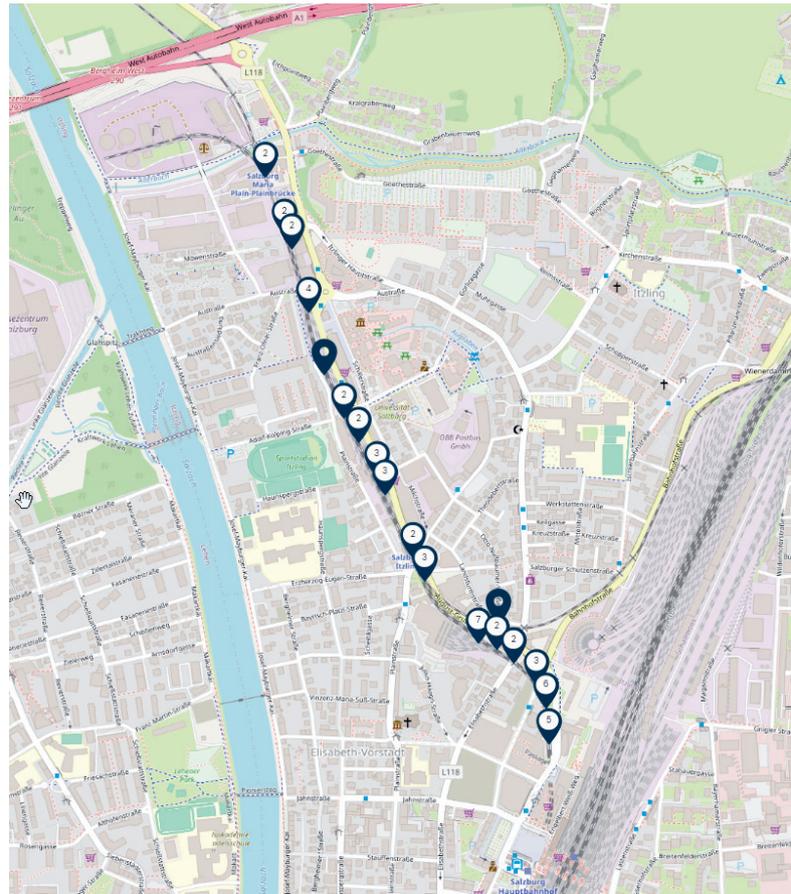
The maintenance was conducted in close collaboration with rotating teams from the customer. This ensured smooth execution by securing necessary track access and also allowed technical know-how and practical tips to be shared directly on-site and applied immediately to the customer's equipment.

/ Training

In addition to the hands-on field training, the service team delivered a classroom training in the Salzburger Lokalbahn's training facility. The content was specifically tailored to the customer's needs and covered the functionality and installation of the deployed axle counters and wheel sensors, as well as efficient troubleshooting techniques. In their day-to-day operations, participants benefit not only from the acquired knowledge but also from provided documentation and instructional materials. All participants received a certificate of completion.

/ Digital Tools

The project was supported by Frauscher's cloud-based application, Frauscher Insights Motion. By providing structured checklists, the app helped streamline the servicing process and enabled thorough documentation of all systems. Serial numbers, sensor positions, current values, and GPS coordinates of the wheel sensors were recorded and are now digitally available for future service deployments.



GPS positions of wheel sensors via Motion application

Benefits

By combining targeted maintenance, hands-on training, and digital tools, the current challenges faced by the railway operator were addressed, improving long-term operational efficiency:



Efficient troubleshooting

Axle counters and wheel sensors were inspected during the maintenance phase, and any faults were immediately corrected. Adjusting sensor positions also resolved recurring issues in two sections of the track. SLV now benefits from uninterrupted train service and proper installation of all systems.



Maintenance without downtime

All work was carried out during active service, coordinated around train intervals. As a result, rail operations continued without interruption.



Practice-oriented training

Maintenance staff were trained through joint inspections and fault resolution in the field, along with a customised theoretical training. This allowed knowledge to be shared in a practical, hands-on way using the railway's own equipment. Thanks to the trained personnel, the Salzburger Lokalbahn is now better equipped to handle potential faults quickly and cost-effectively.



Comprehensive documentation

SLV received a detailed report covering all components, their status, and the measures taken. Operators using the Motion application also gain access to GPS data for future reference.



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www.frauscher.com/en/contact



Further references are available at the following link: www.frauscher.com/en/references