

Maintenance of rolling stock



Ongoing privatization in the rail transport sector leads to increased pressure on financial results of rail transport companies. A Fleet Management System becomes a vital tool to monitor the fleet's performance on a day to day basis. Information provided can be used to optimise maintenance processes, reduce turn around times and increase availability.

Monitoring of fleet's performance

Strukton Rail successfully installs remote monitoring systems for both railway infrastructure and rolling stock. The platform used is called POSS. It creates a wireless communication link between a vehicle and a land-based server. From there the information can be processed and presented via a specific web application.

Various access levels provide dedicated information to different users. The maintenance shop receives actual information on the status of each individual train. An alarm will be automatically generated in case of a breakdown. The severity of the alarm is indicated in various levels. In case of a serious breakdown, maintenance engineers can analyze the problem while the train is still out on the tracks, thus avoiding the need to rely on an incomplete or inaccurate error report. They can decide whether the train needs to be taken out of service for repair in the workshop, or to send a mobile repair crew in case of a minor problem. A fleet management system enables a workshop to optimise work processes, for instance by introducing condition based maintenance.

Strategic information

Fleet managers will be more interested in trends and key performance indicators on fleet level. This information can be generated out of the day-to-day information. They provide fleet managers with information that can be the basis for strategic decisions.

Last but not least, with a fleet management system installed, Strukton engineers will be able to support you with solving more complicated malfunctions that your maintenance crew is not familiar with.

Fleet management information

**Strukton**
Rail

- Number of train journeys
- Average train distance
- Average speed
- Punctuality
- Energy consumption
- Number of malfunctions
- Mean time to repair
- Train position

Advantages

- Cost reduction on maintenance
- Optimisation on workshop routines and logistics
- Up-to-date management information
- Increased availability of rolling stock
- Increased passenger satisfaction