FLEET MANAGEMENT

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A DATA-DRIVEN SYSTEM FOR EFFICIENT FLEET OPERATION ACROSS RAIL AND ROAD VEHICLES

The Fleet Management system by Škoda Group is designed for comprehensive oversight of public transport fleets – including trains, trams, metro systems, buses, and trolleybuses. It leverages real-time data to optimize operations, maintenance, and planning. Cloud-based analytics and diagnostics provide continuous insight into technical and operational conditions, supporting both control centers and depot teams.

A key advantage lies in the consolidation of data from multiple subsystems into a single intuitive interface. Operators gain instant access to harmonized information on vehicle availability, condition, and performance. Advanced analytical tools enable monitoring of key performance indicators, maintenance optimization, and cost-saving identification. The system increases fleet reliability while reducing operational expenses. It is fully scalable, supports third-party integration, and complies with EN 50155 standards for railway applications.

KEY FEATURES

- **Integration platform –** Open architecture enables seamless connection to external systems and suppliers.
- **Unified interface –** Consolidated view of all fleet data in one dashboard for simplified operation.
- **Fleet-wide data analytics –** Real-time technical and operational insights across all vehicle types.
- **Operational efficiency –** Live tracking of reliability, driver behavior, and energy consumption.
- **Decision support –** Data-backed outputs for dispatchers, planners, and managers.
- **Flexible deployment architecture –** available as both cloud-native and on-premise solution to meet customer infrastructure, security, and operational requirements.

FEATURE OVERVIEW

Feature	Description
Vehicle Management	Detailed technical and operational profiles of each vehicle.
Reporting	Automated reports on fleet availability and performance metrics.
Service Ticketing	Centralized maintenance ticketing system enabling fast incident reporting, service workflow management, full traceability, and operational analytics across the entire fleet.
Ride KPIs	Performance evaluation based on schedules and planned routes.
Energy Consumption Analysis	Driver behavior tracking and suggestions for reducing operating costs.
Driver Behavior Monitoring	Analysis of braking, acceleration, and speed for improved passenger comfort.
Service Planner	Intelligent maintenance planning platform combining preventive scheduling, predictive diagnostics, resource allocation, and depot capacity optimization for efficient fleet maintenance operations.