

Depot Management

PSItraffic/DMS The Digital Depot For Your Railway



PSI 



Best Possible Availability For Your Vehicle Fleet

As a rail transport company, you face the challenge of providing your passengers with a reliable and punctual transportation service around the clock. At the same time, you must ensure that the agreed-upon transportation services are consistently met. In short: your vehicle fleet must always be optimally available.

The challenges are diverse – ranging from planning and monitoring maintenance processes to forming trains as needed and ensuring the timely provision of vehicles at the deployment site.

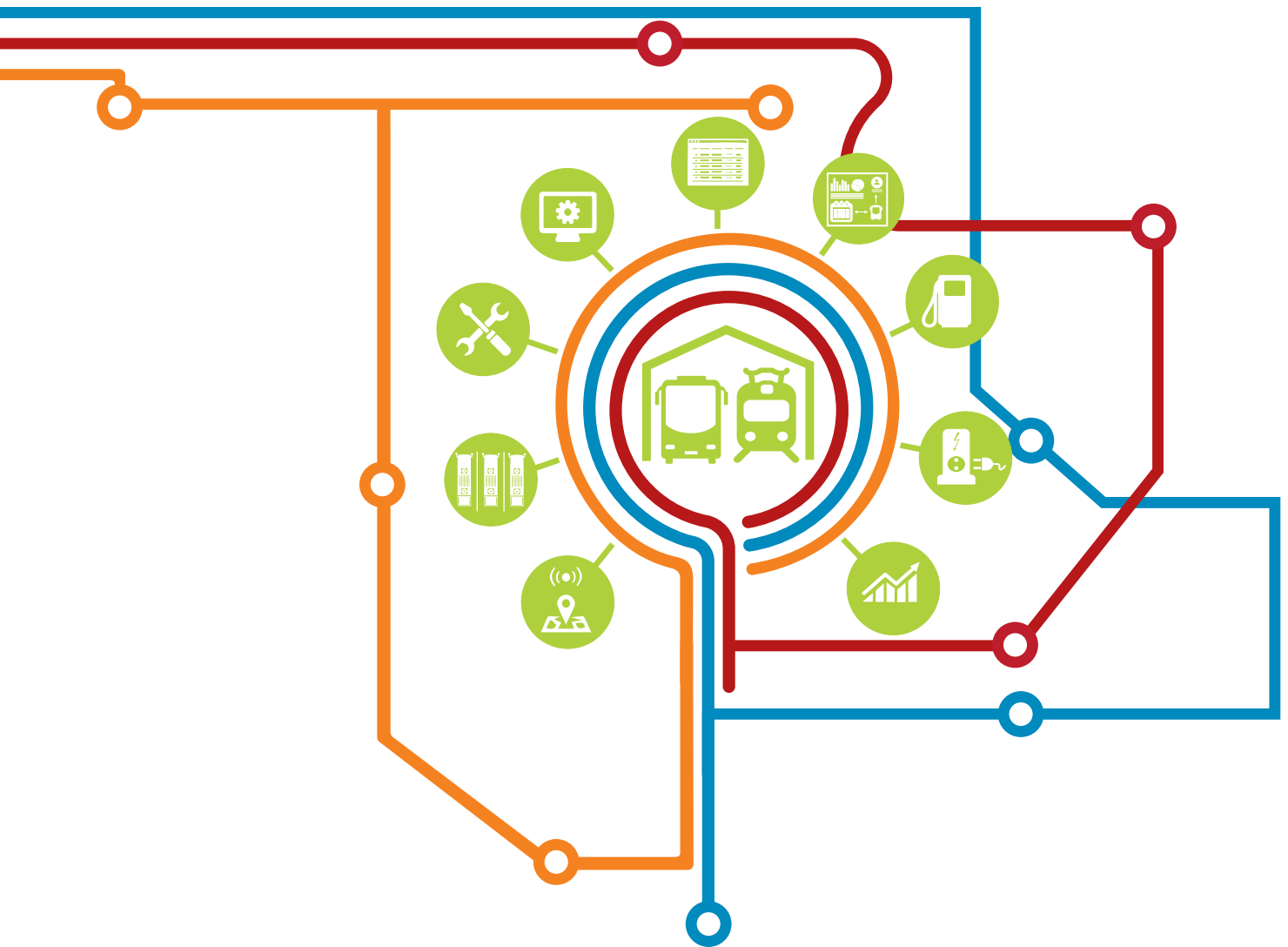
Our PSITraffic Depot Management System (DMS) is the solution that supports you in these tasks. The system digitizes all depot processes and creates a seamless digital workflow – the ideal foundation for efficiently managing the complex requirements in the depot.

PSITraffic/DMS ensures that your vehicles are optimally prepared for daily operations. It monitors and controls all processes in the depot – from vehicle provision to servicing, repairs, and parking – resource-efficiently and cost-effectively. Thanks to the intelligent, integrated dispatch optimization, the best decisions are made in seconds to support your dispatchers, even in unforeseen circumstances.

With PSITraffic/DMS, you ensure smooth operations and maximum availability of your vehicle fleet.

Your Benefits With PSITraffic/DMS

- + Suitable for all drive types**
Monitoring and dispatching all vehicles in accordance with operational requirements - whether pantographs on the track, diesel, hydrogen or hybrid vehicles
- + Integration of all vehicle fleets and fleet sizes**
Can be used for trains, streetcars and buses, regardless of the size of the fleet
- + Consideration of various regulations**
Whether operating in accordance with BOStrab or EBO - PSITraffic offers suitable solutions for all rail-bound services
- + Transparency across all areas of the portfolio**
Transparency about the condition of the fleet and all areas of the parking facility
- + Modular and scalable system**
Modularly expandable as required depending on the respective requirements
- + Open interfaces**
Easy connection of surrounding systems, from timetable and rotation planning to operations management and switch control for routes
- + Process optimizing**
Integrated scheduling core ensures reliable and optimal decisions within seconds – standard interfaces ensure the security of your investment
- + Cloud-enabled**
Virtualization and migration to the cloud possible



Many Tasks. Simply Solved.

The modular structure of PSITraffic/DMS and its extensive functionality, developed over many years, allow it to precisely meet your project-specific requirements. The modules can be configured individually or in combination to flexibly suit your needs, enabling a gradual implementation according to your requirements without any issues.



Vehicle identification and location determination

Modern tracking methods enable the precise location of vehicles using various technologies.



Parking space allocation

Depending on whether the vehicles are to be supplied, maintained, repaired or used for the next round, the DMS calculates the appropriate track in advance, which is transmitted to the train drivers via radio or displays. The vehicles are controlled via the connection to a route and points control system. Routes are set automatically and incoming vehicles travel directly to the target track.



Workshop and supply

The DMS manages all workshop, maintenance and supply work as well as unplanned vehicle faults. These can be created in the DMS, taking into account the required resources, or imported from the respective ERP system.



Operation

All system information is displayed in the form of an operating image, track or magnifying glass images or in tabular views. This provides an up-to-date overview of e.g. capacities, vehicle locations and statuses as well as the functionality of the infrastructure.



Disposition

The dispatching system ensures that vehicles are parked in the depot or stabling facility in such a way that all routes can be served. If a vehicle is not ready for use, a rescheduling of the rotations is automatically started in real time. This is based on PSI's own intelligent optimization algorithm. Dispatching can be carried out manually, semi-automatically or fully automatically.



Driver information

In addition to logging on and off duty, the DMS also records personnel attendance, vehicle rotations and the associated verification obligations. The DMS informs drivers via terminals, displays or mobile devices about their services, assigned rotations, vehicle locations and statuses. Dispatchers are informed about punctual departures from the depot.



Quality management

All operational data can be evaluated and prepared in standard reports and statistics. The data can be automatically exported to external systems so that you have an overview or proof of compliance with your company KPIs at all times. Additional reports can be configured independently by the system managers.



Solution for critical infrastructure (KRITIS)

PSITraffic is also suitable for use in transport companies that are subject to critical infrastructure. PSI is certified according to both 90001 and ISO 270001. We also offer comprehensive 24/7 support services worldwide.



Let's get e-started

The Easy Start

Switch from the analog to the digital world in just a few weeks

For a quick and easy introduction to digital depot management, we offer our PSITraffic/DMS as a basic system. It initially visualizes the areas of vehicle parking, supply and dispatching and can be expanded on a modular basis, right up to a fully automated solution. Timetable and duty roster data is transferred from the existing systems via standard interfaces and forms the basis for dispatching.

With our basic DMS, you introduce a system that is based on the requirements of regional rail transport and maps standard processes.

Rollout to other depots or other vehicles is possible without any problems.

Introduction in three steps - it's that simple

1

You procure the interfaces from your standard supplier and configure the master data for your drivers and vehicles - we supply the system. The software installation and the connection of databases and interfaces can be carried out independently on the basis of checklists.

2

Master data is imported or entered, interfaces are configured and the operating screen created.

3

Once your team has been trained, the system can be used in daily operations after just eight weeks. We will of course be on hand to advise you during the system introduction and later during operation.

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After installation and configuration...

- + you have taken the first step towards digitization of your depots.
- + you work with fewer interfaces.
- + you can expand the system with numerous ready-made modules.

How you benefit!

- ✓ Provision of a tried-and-tested basic function package
- ✓ Modular expandability for growing requirements
- ✓ Higher vehicle availability





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