



*PSI traffic/Depot
Depot Management*

PSI 

PSItraffic/Depot Depot Management

An investment in the future

Increasing competition coupled with the liberalisation of transport markets on the one hand and growing demands for higher returns on the other, are forcing transport companies to re-evaluate all elements of their operations. Improving depot processes can often realise untapped potential for long-term savings and greater efficiency.

Strategic tool for your success

For this reason PSI Transcom GmbH has developed the powerful PSItraffic/Depot depot management system. The system supports and optimises all business processes within the depot. It can easily be configured to manage varying numbers of vehicles, personnel and depots.

Numerous projects have already shown that the introduction of PSItraffic/Depot improves efficiency, streamlines processes within the depot and results in tangible cost reductions.

Radio-based RFID real-time localisation has considerably improved effectiveness.

Photo: SSB AG



Improved vehicle availability

Improved planning in the depot allows transport companies to make better use of their vehicles and improves fleet availability. PSItraffic/Depot efficiently assigns vehicles to duties (or blocks), taking into account factors such as routine maintenance, repair orders, vehicle defect status, and the current location of the vehicle in the depot. At the same time integrated workshop management allows you to make best use of workshop resources. All in all the system makes optimal use of the available fleet, reduces vehicle standstill times and subsequently reduces the need for spare vehicles.

Core functions

The core functions include automatic or semi-automatic assignment of vehicles to duties/ blocks (i. e. vehicle deployment scheduling) and the automated allocation of parking positions, both for rail vehicles and buses. The level of automation and the degree of manual involvement can be configured and adapted to the needs of the organisation. Automatic vehicle scheduling is based on criteria, which can be defined in accordance with organisational preferences.

These functions are embedded in a system which provides detailed real-time information on all aspects of a vehicle's status and position as well as



PSItraffic/Depot Depot management with fully automated and across-the-board scheduling



Photo: RSAG

the state of other depot equipment. A graphical user interface makes information on vehicles and depot processes available to all personnel involved – from dispatchers and workshop staff to drivers and management.

Vehicle localisation

Tracking vehicles within the depot is an important input for many depot management functions. PSI has extensive experience with different tracking and location technologies for depot use. Modern RFID and transponder technologies allow the system to locate vehicles within the depot area from entering to parking and leaving the depot.

Interfaces

PSItraffic/Depot includes numerous interfaces to surrounding systems such as Automated Vehicle Management (AVM), schedule and duty roster planning systems or ERP systems as well as technical systems (e.g. switch control, refuelling systems, site access control, etc). Wherever possible, standardised interfaces are used.

How you can benefit

- Minimise unproductive work and tedious routine tasks
- Improve reaction times due to rationalisation of depot operations
- Integrate control of multiple depots through multi-depot functionality
- Transparency of operations for all stakeholders
- Multi-client functionality protects sensitive and safety-related data
- Special management overviews for all areas of operations
- Statistical evaluation of all data
- Electronic document flow eliminates costly paper work
- Avoid costly shunting trips due to automated vehicle parking assignment
- Automated vehicle deployment taking account of all constraints and preferences, such as vehicle range limits, capacity needs, route-specific limitations, etc.
- Optimise vehicle fleet size and workshop load based on integrated vehicle deployment planning
- Workshop management available as integrated module or through interfaces to existing systems
- Automatic monitoring functions with configurable alarms, for technical and organisational processes, e.g. driver registration and checkout, vehicle maintenance and repair, etc.
- Intuitive user interface with central operational screen in addition to further process-specific screens
- (Standardised) interfaces to schedule planning and duty roster systems and AVM as well as track control systems

Overview of PSITraffic/Depot functions

- Automated vehicle deployment planning
- Automated parking position allocation
- Optimised refuelling
- Mileage logging and optimisation
- Switch control, vehicle tracking
- Workshop management, including repair management, routine maintenance, and preparing vehicles for service
- Automatic monitoring functions, e. g. driver registration and check-out or entry and exit control at barriers and gates
- Visualisation of operations in the depot
- Timetable and duty roster import
- Vehicle management, including vehicle logs
- Operational log
- Statistics

PSI – your long-term partner

With more than 40 years of experience in the industry, PSI has already completed considerably more than 1 000 standard projects. Project management, from design up to application of the solutions, is one of PSI's core fields of competence. Seasoned experts are available, developing integrated strategies and offering consultancy services related to all aspects of planning and software introduction right through to commissioning.

Successful projects

Rostocker Straßenbahn AG

Depot management for trams and buses with fully automated scheduling, fault management via integrated vehicle computers, central control of tram and unmanned bus depots, track and switch control.

Stadtwerke Augsburg Verkehrs-GmbH

Fully automated depot management for buses and trams. VDV 461 interface to AVM. Workshop management integrated with SAP. SMS service for parking locations. Sophisticated integration in schedule and human resource planning.

Stuttgarter Straßenbahnen AG

Depot management with across-the-board scheduling via seven depots. RFID localisation of buses and trams.

Essener Verkehrs-AG

Depot management with scheduling and driver registration. Interface with vehicle supply systems.

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