

TRAMKEEPER

TramKeeper is an advanced operations support application for tramway depots, managing the processes of vehicle scheduling, vehicle automatic dispatching, vehicle maintenance/technical preparation and driver's supervision and control.

Tramway depots operations support application, allowing the automation and optimization of the main depot processes.

At an operational level, the main task of the application is to raise efficiency and simplify daily work, warning and providing the operator with tools to act quickly in case of conflict or disruptions.

Key Features

Services resource allocation

- Creating the Rolling Stock Daily Roster (service/driver/ vehicle allocation for the day)
- Vehicle movement dispatch: Creating and managing the Daily Vehicle Dispatch:
 - Exit/entering the depot
 - Planned vehicle destination in the depot (parking-hall, washing & sanding, workshop)
- Shunting movements
- Tracking the vehicle movement
- Supervision and control of vehicle parking location

Automatic vehicle location

- Vehicles location and place occupancy, using the signaling + AVLS

Depot supervision

- Tracking the vehicle movement on the depot, signaling objects status, OCL system status, track status

Benefits

- Global supervision of the operations on the depot
- Automatic vehicle allocation and dispatching
- Automatic vehicle location and tracking
- Driver's supervision and control
- Configuration of operational rules allowing an optimized vehicle deployment
- Optimization of shunting movements
- Vehicle asset management
- Vehicle maintenance and technical preparation management

Vehicle supervision

- Vehicle status supervision
- Managing vehicle movement to the workshop (maintenance orders)
- Managing and control of vehicle technical preparation

Driver information

- Driver check-in at the driver's terminal
- Location of the assigned vehicle

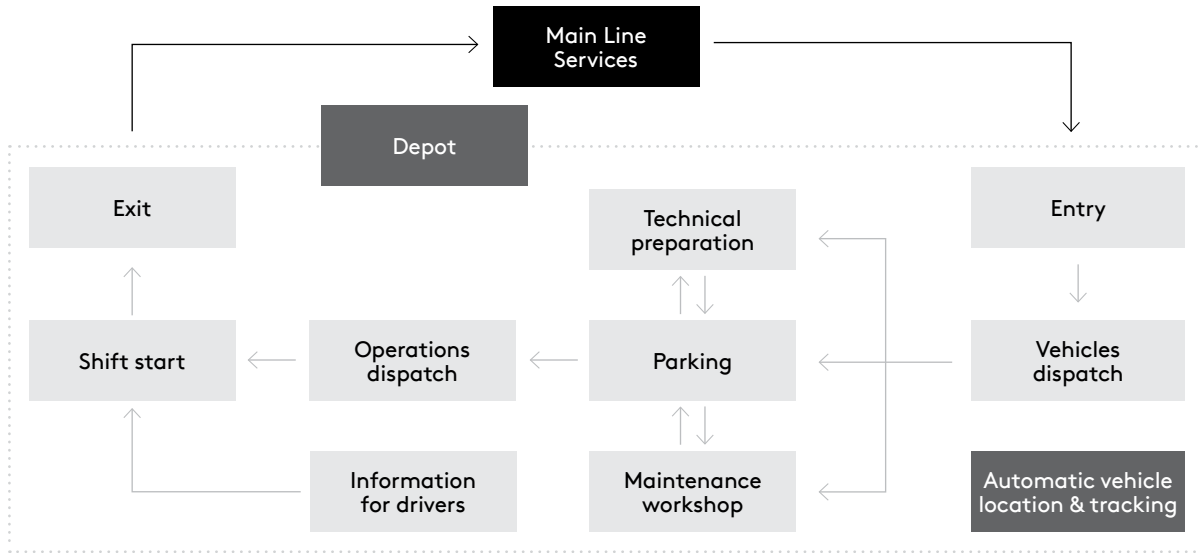
Drivers supervision & control

- Receiving the daily driver's roster, driver status, reserve driver allocation
- Check-in/out control

Event recording and operational reports

- Event and alarm recording
- Movement statistics reports
- Vehicle management reports



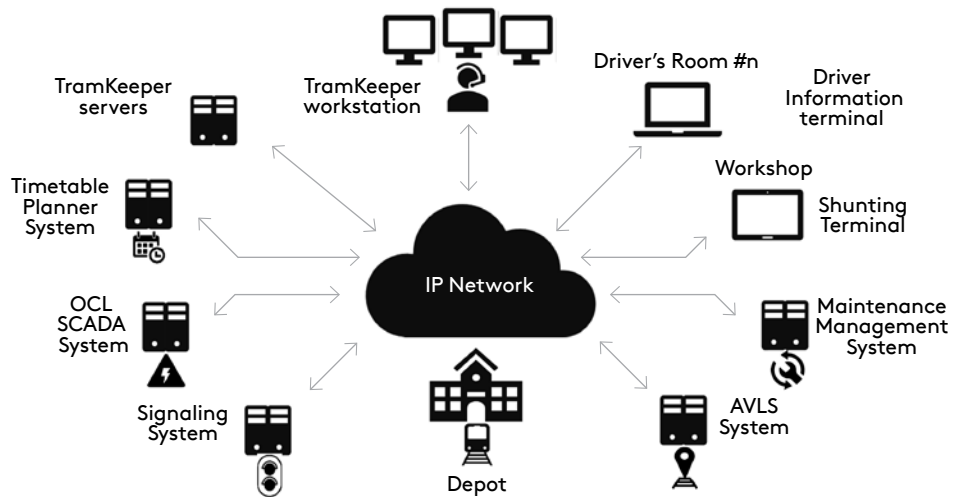


Interfaces

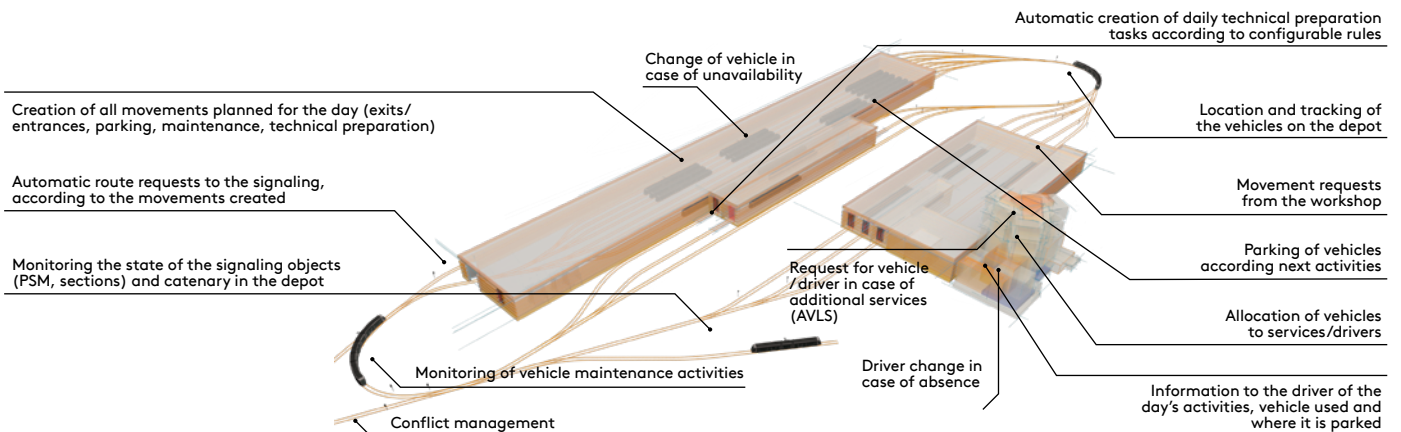
The system interacts with the following systems:

- Operations planning: Importing the service timetable and driver roster
- Maintenance: Importing the maintenance schedule
- Depot signaling: Requesting vehicle movements (route request), receiving vehicle ID and location, signalling objects status
- Automatic vehicle location: Vehicle location at the depot, service data (start of service, regulation infos) and vehicle request
- Power-SCADA: Receiving the status of the OCL system on the depot

Architecture - System overview



Supporting the Daily Operations



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