



Yard Management for Rail Fleets

Make pull-outs and maintenance easier. Know where your rail cars are in real-time.

Vontas Yard Management for Rail is a mobile-ready, configurable, web-based application that uses advanced Ultra-Wideband (UWB) technology to give you real-time situational awareness of all vehicles in your facility. By keeping track of the status and location of each car, our solution makes pull-outs faster and maintenance, easier. Yard operations become safer and more efficient. Yard Management for Rail integrates with Trapeze solutions and third-party systems, sharing maintenance, dispatching, and vehicle data across departments to take your service to the next level.

Overview

Track Cars/Consists in Real Time

- Real-time Location Service (RTLS) based on Ultra-Wideband (UWB) technology provides vehicle locations in the yard with <1m accuracy
- Monitors vehicle activity indoors and outdoors; multiple antennas increase accuracy.
- Tag Location Service displays X/Y position information for two tags mounted on a vehicle; long-life, battery run tags, one tag operates if other fails
- Provides alerts when vehicles arrive or depart the yard

Visualize and Analyze Yard Activity Easily

- Shows real-time status and vehicle counts to ensure you have enough rail cars ready for service
- Simple and clear map or grid views show color-coded vehicles moving in real time, automatically updates maintenance status for each vehicle
- Drills down to maintenance, work block, vehicle details
- Customizes yard map to your requirements

Set Up and Integrate Quickly

- Self-calibration features enable faster installation; system allows users to change business rules with ease for increased flexibility
- Provides options to power and network UWB antennas, including solar and wireless “mesh”
- Integrates seamlessly with third-party applications, including electric vehicle charging stations
- Web-based application enables you to manage your yard from anywhere

Agency Benefits



Increased Productivity

Eliminate the need for multiple daily yard walks. Direct mechanics and operators to the right car, streamlining communication between Maintenance and Dispatch by sharing data. Reduce assignment errors and scrambles to cut or bump consists through import and visualization of vehicle location, up/down status, and consist makeup. Manage more rail cars per facility with less demand on staff time.



Seamless Dispatch Operations

Make assignments of work to rail cars with up-to-date vehicle location data, helping prevent blocked vehicles. Find alternate rail cars quickly. Support remote dispatching.



Optimized Maintenance Performance

Easily visualize up/down status based on data from your maintenance system and other criteria. Indicate vehicles are reserved for training or should only be put into service if necessary. Optimize maintenance capacity planning. Prevent dispatch of vehicles with open work orders. Balance spare vehicles.



Improved Yard Safety

Benefit from an automated vehicle location process, reducing the need to walk the rail yard and the chance for pedestrian strikes.

Passenger Benefits



Reduced Passenger Wait Times

- Gets rail cars into service promptly, improving on-time performance



Safer, Well-Maintained Rail Cars

- Integrates yard activity seamlessly with dispatch and maintenance operations to improve vehicle safety and passenger comfort



Better Customer Service

- Punctual, dependable service elevates the rider experience

[Connect with our Experts](#)

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