



SOLUTION GUIDE

# Yard Management

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(FOR BUS FLEETS)

# Make pull-outs and maintenance faster and easier. Know where your bus is in the yard all the time, from the safety of your desk.

Your buses run on sophisticated operations and maintenance systems that dramatically improve service. Yet, your yard management remains mired in inefficient manual processes that threaten to undo it all.

It doesn't have to be this way. Don't walk the yard unsafely with pen and paper, only to get obsolete information and the wrong planning data. Never lose a bus, send someone to find it, or have your operators and dispatchers scramble to find the right vehicle to get it on the road and to passengers on time.

The Vontas Yard Management solution is a mobile-ready, highly configurable, web-based application that uses advanced Ultra-Wideband (UWB) technology to give you real-time situational awareness of all vehicles in your facility, allowing you to keep track of the status and location of each bus.

Yard Management makes pull-outs faster; maintenance, easier; and yard management safer and more efficient. With the ability to integrate with third-party transit tools you powerfully optimize your operations by passing critical maintenance, dispatching, and vehicle data across departments to take your service to the next level.

**3hrs**  
time saved a day  
coordinating between  
Maintenance and  
Operations

**1.5hrs**  
saved a day correcting  
parking errors

\*internal research based on  
several agencies

# AGENCY BENEFITS

Automate your yard operations to save time and optimize service delivery.



## **Increase Productivity**

Eliminate the need for multiple daily yard walks. Direct mechanics, fuelers, and operators to the right bus, streamlining communication between Maintenance and Dispatch by sharing data. Reduce parking errors and re-parking after pull-in. Manage more vehicles per garage with less demand on staff time.



## **Improve Dispatch Operations**

Avoid dispatching the wrong bus. Find alternate buses quickly. Do away with delays from blocked vehicles. Support remote dispatching.



## **Optimize Maintenance Performance**

Balance vehicle mileage with daily maintenance schedule and Preventative Maintenance (PM) compliance. Optimize maintenance capacity planning. Prevent dispatch of vehicles with open work orders. Balance spare vehicles. Manage charging of electric vehicles.



## **Enhance Decision-making**

Create real-time reports on available vehicles and analyze their historical activity in the yard, such as maintenance turnaround time, to improve dispatch and maintenance decisions.



## **Increase Yard Safety**

Reduce pedestrian strikes with an automated vehicle location process. Reduce vehicle-to-vehicle accidents in the yard by reducing parking errors.

# PASSENGER BENEFITS

Keep your passengers on schedule and happy to take public transit.

## **Reduce Passenger Wait Times**

Get buses quickly on the road and to your passengers as scheduled, reducing any delays to their day.

## **Dispatch Safer, Well-Maintained Buses**

Integrate yard activity seamlessly with dispatch and maintenance operations to improve vehicle safety and passenger comfort.

## **Increase Customer Loyalty**

Build a reputation for punctual, dependable service customers seek out.

## **Don't Leave Your Yard Behind**

Whether you have 10 or fewer vehicles in your yard or more than a hundred in multiple garages, the ability to share data seamlessly across Maintenance and Dispatch to improve daily operations cannot be overstated. With automation, integration, and optimization, you create a better safety culture within your organization and maximize service delivery to further enhance your riders' experience. Vontas works closely with you to understand your unique yard requirements and create a customized solution that meets your needs.

# PRODUCT FEATURES

## Real-Time Location Service (RTLS) based on Ultra-Wideband (UWB) Technology

Provide bus locations in the yard with <1m accuracy. Monitor vehicle activity indoors and outdoors, using seven antennas for high error recovery. Set up system easily with self-calibration feature. Change business rules with ease for increased flexibility. Track objects other than buses (e.g. non-revenue vehicles).

## Customized Yard Map/Yard Grid

Tailor business logic or facility map to fit the unique dimensions and requirements of your yard. Zoom in and out easily, see color-coded buses moving in real time, get granular information (automatically updated for maintenance status) for each bus.

## Easy User Interface

Get a quick overview of yard activity with simple and clear map or grid views using color-coded elements, icons, and easy drop-down menus that drill down to the maintenance, work-block and vehicle data details.

## Automated Parking Assist

Assign bus parking locations based on your rules (e.g. vehicle type, vehicle size) during pull-in and enable Operations and Maintenance to quickly find the buses they need. Manage parking in alternate lanes and after vehicles have gone through servicing and maintenance.

## Tag Location Service

Provide X/Y position information for each of two tags mounted on a vehicle. Operate with one tag if the other one fails. Save on energy consumption with battery-operated tags.

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*“You realize the value of yard management technology when you can seamlessly pass information between your asset, work, and yard management applications. Coupling real-time location with maintenance and dispatch status creates the ‘killer app’ that leads to significantly improved daily productivity.”*

**Clinton Taggart**  
**ITS Field Engineer**  
**Vontas**

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## **Reporting KPIs and Dashboards**

Get real-time reports on available vehicles and their status as well as maintenance activity using a powerful business intelligence platform. Utilize playback function to determine cause of accidents and easily identify vehicles with fluid leaks.

## **Alerts and Notifications**

Get alerts on vehicle service readiness and the status of vehicles on maintenance hold.

## **Parking Lane Display**

Provide giant display at garage entrance to direct buses coming into the facility where to park.

## **Driver Lounge Display**

Show time for pull-out and assigned operator on large screen so drivers don't have to check with dispatch supervisor for the status of their bus. Show late and next pull-outs using colored indicators.

## **Wired and Wireless Antennas**

Scan yard with precise X/Y coordinates, and triangulate on the location broadcast by the tags, detecting bus status. Configure easily throughout the yard and simply add more to areas with poor coverage. Powered by lithium ion batteries with guaranteed three-year life.

## **API Integration**

Integrate seamlessly with Vontas OnRoute, and third-party Enterprise Asset Management (EAM) and Workforce Management (WM) systems. Display parking assignments on the on-board Mobile Data Terminal. Optimize dispatch with vehicle location and maintenance data.

## **Third-Party Integration**

Integrate easily with third-party applications, including electric vehicle charging stations. The Yard Management solution offers a powerful toolset including an API and MaxQueue integration engine.

## ENHANCE YOUR YARD MANAGEMENT CAPABILITIES

Improve your yard operations even more with powerful tools and customer support:



**Professional Services Support** – Get a customized solution suited to the requirements of your yard and round-the-clock support from Vontas Professional Services and Engineering.



**Mobile Yard Management** – Manage your yard from anywhere, on any mobile device, with a web-based application.



**Business Intelligence** – Measure and analyze yard maintenance metrics to improve yard management and operational performance.

Reach out to our YM experts for a demo.

Connect with our Experts

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