Yard Management

Yard Management is a comprehensive, customer-driven, and field-proven solution that provides for effective management of vehicle assets from pull-in to pull-out.

Intuitive visualization of bus, rail, paratransit, and supervisor vehicle location in the yard or garage.

- Vehicle status is indicated by color and icon
- Map display can be tailored by different users so only areas of interest are displayed
- New map uploading feature allows agencies to update yard layout as they grow, expand, or change
- Capability to change lane status and switch lane configurations between Manual and Automatic on a scheduled or on-demand basis

A multifaceted approach to the day-to-day realities of the yard

The ability to coordinate maintenance action and track assets in the yard is crucial to being able to return them to revenue service. We understand that yard management is needed to facilitate matching the right asset for revenue service while factoring in characteristics of the vehicle.

Yard Management is a web-deployed application that employs Microsoft “click-once” deployment technology so it may be distributed to any user across your agency’s enterprise. The Yard Management application was designed with the tablet user in mind and supports Windows-based Fixed Digital displays such as all-in-one PC’s, desktops, and tablets. The application essentially provides a common view for all users that may be tailored for specific purposes.

The application supports CAD user privileges that permit view only, parking-enabled, and assignment-enabled privileges based on user role. The Yard Management system provides a multifaceted approach to dealing with the day-to-day realities of the yard and can support all of these needs:

- Basic and enhanced vehicle find, vehicle information, and vehicle status
- Two-way integration for operator assignments
- Manual parked vehicle location
- Automatic operator assignments and assignment of vehicles
• Support for integration with 3rd party maintenance and bus operator time keeping systems

• Graphical and tabular information displays

**Integrated maintenance support keeps vehicles moving**

The Yard Management system supports integration with a third party maintenance information system through a defined interface (web service). The system helps yard managers route vehicles scheduled for maintenance to specific lanes to avoid blocked bus situations or late pull-out. The Graphic or Tabular view conveys the vehicle maintenance status such that it is immediately available to any user at a glance.

**Multiple views to support multiple user roles**

![Figure 1 - Graphical view](image)

The graphical view provides a geographically accurate map of vehicle location that can easily be updated as your yard expands or changes. When combined with a real-time location system, yard management detects the presence of a tracked vehicle as soon as it enters the yard, and provides periodic updates of location while in the yard or any of the covered areas at the yard facility. In addition to the location awareness that the graphic view provides, it also includes a variety of tools to manually Park/Unpark, Find Vehicle, and Assign Vehicles.
Tabular views provide scheduled pull-out/pull-in and unassigned vehicle information. These tabular views provide yard management and dispatch staff with visibility of both assigned and unassigned vehicles. The tabular view allows the user to see exceptional conditions such as a scheduled pull-out that has not received a vehicle assignment, or a scheduled block that is late for pull-out.

The returning vehicles view informs dispatchers and maintenance personnel when vehicles are about to return to the yard. Continually updated with real-time location data, it provides a precise prediction of when each vehicle will pull in. Users can schedule notifications to be displayed when a vehicle arrives, when it has parked, or if it has not arrived by a specified time. This information assists dispatchers in locating the right vehicle for the next assignment, and lets maintenance personnel know when a vehicle scheduled for repairs is available for work.

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