



iApp Applications - Asset Tracking and Management Yard Management



Many construction, manufacturing and utility companies utilize local storage yards to store large, high-value assets for construction projects or repair. These yards may extend for acres where materials are stored in close proximity to a job site. Real-time visibility, security and inventory accuracy is the holy grail of yard asset management. Significant savings result when the right asset is available when it is absolutely needed; eliminating project delays, potential shut storage, and missed service levels. InSync's Yard Management solution addresses the call of construction and repair crews that need to have accurate inventory and asset location ability in the yard.

InSync's Solution Addresses:

- Yard check-in/check-out of assets
- RFID/Barcode tagging of inventory
- GPS and grid-based location of assets
- Inventory location and reporting
- Project and work order integration to authorize yard activity
- Automated eBusiness transactions for partners and customers

InSync's Yard Management solution utilizes active RFID tags and long range antennas installed in each yard. The tags have a long ample range to allow for complete coverage of each yard, including areas over 300sq meters. Data stored on the tag can be as simple as a serial number ID, more detailed information such as equipment manufacturer, warranty period, cleaning, maintenance schedules, etc. InSync's software translates streaming data from tags, readers and sensors in the yard and integrates it with satellite imagery to provide operators with a real-time view of equipment, its status and location.

Application Benefits:

- Reduced downtime due to damaged vehicles and machinery through automated service alerts/schedules
- Reduced time to locate assets through Real-time visibility of mobile asset location and condition
- Mobile application support (handheld) for in-field technicians and customers
- Smart labeling of remote and mobile assets such as machinery, meters, vehicles, sensors and parts
- Incorporation of existing customer sensor and data capture infrastructure for metrics and conditional reporting

Software Features

- Mobile application support (handhelds, PDAs, cell phones)
- Seamless connectivity to RFID, Barcode, GPS, handhelds and sensors
- Automated alerts for management of maintenance histories, replacement schedules and more
- Award winning look and feel, including easily customizable real-time dashboards
- Web-based commissioning of applications to multiple yard locations and mobile devices
- Comprehensive functions library and pre-defined workflows allow users to deploy easier and faster than ever



The solution allows customers to manage multiple yard locations; creating a complete inventory view across the network of yards. Operators can log into the system via a browser-based Internet portal to manage asset in/out processes and search multiple locations for a specific asset. In the event that an asset is not available at a specific location, operators can search nearby yards for the particular asset or a suitable alternative. Process owners responsible for maintenance can set up reminders based on equipment schedules, run searches for any assets out of tolerance with expected schedules or conditions, and identify past due activities.

Sensitive materials such as chemicals can be outfitted with temperature and other environmental sensors. InSync's software can integrate this data into the dashboard views to provide condition status for supplies and equipment. If assets have an expiration date, operators can minimize scrap and waste by using InSync's software to prioritize asset usage based on expiration status.

TagId	Material	Job Num	Location	Disposition	Last Operation
030003125	A29394867	68599046	Outdoor Yard	Not Read	Check In
030003125	A29394867		Outdoor Yard	Not Read	Check In
030003125	A29394867		Outdoor Yard	Not Read	Check In
030003122	67478491		Outdoor Yard	Not Read	Check In
030003122	A29394867	68599046	Outdoor Yard	Not Read	Check In
030003122	B27483966		Laydown Yard	Match	Check In
030003122	A29394867	68599058	Outdoor Yard	Not Read	Check In
030003122	A29394867		Outdoor Yard	Not Read	Check In
030003121	A29394867		Outdoor Yard	Not Read	Check In
030003121	A29394867		Outdoor Yard	Not Read	Check In
030003121	A29394867		Laydown Yard	Unexpected	Check In
030003121	A29394867		Outdoor Yard	Check Out	Check Out
030003121	A29394867		Outdoor Yard	Not Read	Check In
030003121	A29394867		Outdoor Yard	Not Read	Check In
030003121	A29394867		Laydown Yard	Unexpected	Check In
030003121	67478494		Laydown Yard	New	New
030003121	67478494		Laydown Yard	New	New
030003121	67478494		Laydown Yard	New	New
030003121	B27483966		Laydown Yard	Match	Check In
030003120	A29394867		Laydown Yard	Not Read	Check In

Material	Lot Number	Operation	Quantity	UOM
A29394867	68599004	Check In	9	EA
A29394867	68599046	Check In	3	EA
A29394867	68599058	Check In	3	EA

Satellite imagery is overlaid with dimensional drawings to provide visual

Displays real-time asset inventories, conditions and maintenance schedules for each location

The Movement Trace feature displays real-time movements of equipment, personnel and supplies