



An Asset Tracking Solution helps to minimize costs, prevent unnecessary losses and prevent slow movement. It can be done using numerous methods, but all of them consist of a way to scan each asset using auto identification. Those assets can then be checked in and out, managed, and tracked.

Asset management programs can help streamline multiple functions into one central resource that can be accessed from anywhere. Despite an upfront cost of asset management systems, businesses will see the payback in a short period of time given the time and energy that will be saved by better asset management and automatic data entry.

Manual data entry leaves a lot of room for error. People in the industry know that reading, writing and entering asset data take up much of their workers' time. Today, people are not available to do this kind of tedious, repetitive and manual error prone work. When you have numerous people throughout the company inputting and reviewing asset data, there are going to be mistakes. The manual data entry process is repeated multiple times during receiving, filling, issuing, and tracking. As assets grow from hundreds to thousands, the errors grow exponentially. Up to 20% of manual entries are incorrect, and this sets a chain reaction with the result that neither you nor your customer trusts your data. These errors aid in losing the asset and results in low productivity and big losses to the bottom line.

Most errors occur during the "last mile" - delivery of the wrong asset to the wrong customer. No actionable data is available to the logistics team at the point of action - test due, asset recall, and customer outstanding. If physical damage data is collected, no mechanism is in place to transmit it automatically to operations at the plant to embargo cylinder for service. Ultimately, the lack of up-to-date data results in the inability to easily locate assets and access an asset's operational status when it is most needed.

The TRAKAID Asset Tracking Solution is a cloud hosted comprehensive asset tracking and logistics solution and covers all aspects of the business including Receipt, Issue, Delivery, Pickup, and Service. The Solution helps the enterprise to manage its multiple locations, view real-time data from anywhere at any time for all their critical assets and their impact on associated business processes. The Solution offers rich dynamic on-line reports complemented with rule-based alerts and notifications that helps to manage assets proactively and to apply timely controls.

The Solution uses the latest web, mobile, and database technologies - agile, modular and scalable architecture - data validation and processes in compliance with good manufacturing practice - and Information Governance for ensuring data integrity.

The Solution automates data acquisition and uses the latest AutoID and RFID technology. Data is acquired when the cylinder passes in front of a fixed or a hand-held reader thus eliminating errors associated with manual processing. This provides 100 % accuracy in data, reduces manual effort and lowers the labor costs.

The Solution empowers the user by providing intelligent actionable data at point of use, and uses the latest mobile technology integrated with RFID readers to bring the process validation in the hands of the user at the point of action - managing manufacturing processes or logistics functions of pickup or delivery. The mobile RFID Reader reads the RFID Tags associated with the asset and the data is validated and processed before aggregating the information about an asset's location and status.

Challenges with Existing Systems

- Asset Identification issues lead to increased operation time and lost productivity.
- Difficulty in reading asset identity: missing – illegible – poor lighting – non- readable.
- Loss of Assets from improper identification directly negates the bottom line.
- Data acquisition errors exist due to manual data entry.
- Underutilization of assets due to inefficient and inaccurate tracking methods.
- Non-productive time spent in reconciling asset holdings as reported by company\customer.
- Safety of one and all is impacted as assets may be out of certification.
- Inability to isolate assets due for scheduled maintenance and testing.
- Difficulty in identifying clear asset ownership between company and customer.
- Inability to identify when and where of Asset damage and attribute it to a customer.
- Asset audit and periodic census is time consuming and difficult, resulting in an inability to locate individual assets.

Trakaid Asset Tracking Solution: Application Highlights

- Subscription-based low-cost cloud-hosted solution offered as SaaS (Software as a Service).
- Work from anywhere\any time over Wi-Fi\Mobile network from any Device\Android Smart Phone.
- Fully secure data with built-in multi-level security: User Authentication, User Role, Secure Infrastructure, Restricted Server Access, Solution Access only via solution login URL.
- User may select predefined language for interaction in their user profile. The default Language is American English.
- Uses AutoID and RFID technologies for accurate and efficient automated data acquisition.
- Information Governance guidelines aid in data integrity and stop backdated entries.
- Hundreds of process validation controls implemented to eliminate errors for data accuracy.
- Usability features and alerts for assets out of certification, under quarantine, or non-usability.
- Auto-correction algorithms correct asset status and location.
- Operational, business, and analytical on-line reports available in predefined language.

Solution Benefits



Do More with Less

Total cost of operation reduced by 30% with hundreds of built-in process controls to prevent process errors.



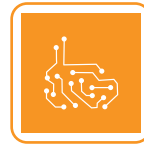
Mobile Sensor and Data Acquisition

Collect data by use innovative AutoID and RFID technologies – automate data capture - efficient, accurate, and timely. Give a unique identity to your asset.



Know where your asset is & optimize asset usage with real-time data

Know the GPS location of where your asset was scanned. Take instant action with use of online connected handheld scanner that provides actionable data at point of use. Faster turnaround time for delivery and pickup, transparent visibility and usability for end-to-end traceability with increased asset utilization. Focus is on "Rotation! Rotation! Rotation! Rotation!" and on timely return of assets.



Standardized Processes Eliminate Extensive Training

Robust, intuitive, and easy to execute streamlined processes with in-built artificial intelligence, good manufacturing practices, and information governance streamlined processes.



Accuracy and Cost Efficiency

Trust your data and eliminate more than 20% errors during manual data entry. Obtain additional cost savings by limiting asset loss, saving time looking for assets, and optimizing use of assets.



Scalability

Solution offers flexibility and scalability as your company grows - assets grow from hundreds to thousands - and more and more persons are involved in managing assets.



User-Friendly

Intuitive user and device-friendly interface, simple step-by-step work flow transactions, and combination of holistic view of complete data at your fingertips, aids the user to make well-informed decisions.



Worker and Customer Safety

Identify and schedule service. Deliver the right product, to the right customer, in a timely manner. Safety standards built into processes. Alerts for regulatory compliance, physical damage, quarantine, or not fit for use.



Comprehensive Real-Time Reporting

Access timely accurate data and empower every link in your operations to make informed business decisions. Run, analyze, and manage your business – Transactional, Daily, Monthly, Annual, Historical, and Comparative.



On time Inventory Check

Initiate an instant physical inventory check on your production floor, warehouse, or at your customer location. Discrepancies are available for review.



Worldwide Support

Support no matter where you do business.

Features Highlight



Cloud Hosting and Data Storage-
No servers required - Allows you to focus on running your business.



GPS- On scan GPS location data captured



Audit- Data timestamped to ensure full data trail



Offline Working- If no connection is available, data is stored locally and automatically uploaded



Signatures- Customers can simply sign the screen to capture a signature



Reports- Reports created from captured data and emailed or stored



Security and Access- Allow users to work and see what they need. Encryption of data over internet



Company with Multi Location



Do More with Less
30% productivity increase transforms business processes



Real Time- Intelligent actionable data at point of use



Validation- Ensure mandatory data is captured at each process step



E Mail- Alerts\Notifications\ Transactions emailed



Know where your assets are 24 x 7
Track\Trace\View real-time
Timely return\Eliminate Asset loss



Thrice daily Data backup kept for 30 days. Access instant downloads and request custom data snapshot



Proactive Action and Auto Correction -Real-time intervention to prevent wrong action



Mobile Data Acquisition
Eliminate paper-based data collection\Fully digitize your data



Enhanced Asset Tracking
Holistic view of asset life cycle and transparent event traceability



Work Transactions
Create, View, and Complete from anywhere

Detail Features

Feature	
Solution	
Asset Master	✓
Asset Transactions, Adjustments, History & Change Log – up to Last 24 calendar months	✓
Asset Use & Product & Last Location	✓
Asset Numbering	✓
Customer Delivery document Location based sequential numbering	✓
Maximum Customer Outstanding	✓
Quick and Advance Search for Asset and Transactions	✓
Company with Multiple Locations\ Customer with single Location	✓
Location level transaction numbering	✓
Location Info, Contact, Time Zone, Geo Location	✓
Email Transactions & Reports	✓
Multiple Time Zones & Multiple Language Interface	✓
User Help document	✓
Transactions Online	
Asset Search	✓
Inventory, Add New, Edit Asset Attributes, and Service	✓
Manage Asset Status & Identity	✓
Asset Sale	✓
Customer Indent	✓
Asset Receipt\Delivery Transaction & Signature Confirmation	✓

Feature	
Reference Management	
Manage Reference Data	✓
Asset Attributes	✓
Product	✓
Company and Customer information	✓
Sequential Transaction Numbering and formats	✓
Reinitialize Transaction Numbering for Accounting year	✓
Register Devices	✓
Reporting	
Transactions & Daily Register	✓
Management	✓
View Reporting History	✓
Interface to Other Systems	
Asset Master & Use & Transaction - Export in Microsoft Excel format	✓
Asset Identity	
Manual	✓
1D Bar Code or 2D bar Code (GS 128 Bar Code)	✓
Passive UHF RFID (Global EPC Standard)	✓
Asset Visibility	
Last Known – What, Where, How, When, Who	✓
Available Location	✓

Feature	
Asset Usability	
Asset Needs Attention	✓
Regulatory Compliance	✓
Quarantine	✓
Physical Damage	✓
Tag Missing	✓
Auto-ID Recognition	
Android based Smart Phone using Photo Recognition as Bar Code Reader	✓
Android based Smart Phone with RFID + Bar Code Reader	✓
Android based Integrated Smart Device with RFID + Bar Code Reader	✓
Fixed UHF Readers	✓
Application Access	
Anywhere – Anytime – Any Device	✓
Useable real-time data at point of use	✓
Microsoft Windows Desktop, Laptops, and Tablets and Android Smart Phone\Devices	✓
Solution Technology	
Latest Standard Mobile \ Web Based	✓
Modular Architecture	✓
Database Microsoft SQL Server 2016+	✓
Operating System Microsoft Windows Server 2016+	✓

Feature	
Security	
Multiple level security	✓
Secure encrypted data transmission over Internet	✓
Application access through Firewall	✓
User login - unique session – strict password requirement - audit log	✓
Named user log in, 90-day Inactivity or multiple invalid login; forced password change	✓
Role based security	✓
Access using registered device	✓
Database level security	✓
Screen Inactivity lock out	✓
User Management	
Update Person info and Contact Details	✓
User Access and Role	✓
Company, Company Location	✓
User Self-Management,change password,Set allowable location\role\interface language	✓
Trakaid Cloud Hosted Total Solution	
Access Solution from Anywhere \ Anytime \ Any Device via broadband Internet	✓
Hosted on Cloud and Customer needs no local Solution infrastructure	✓
Lower up-front and reduced overall costs	✓
Low Monthly Subscription – Pay as you use	✓
Agile infrastructure scalability as per requirements	✓
Always on Infrastructure	✓
99 percent Uptime	✓

Feature	
Solution Infrastructure by Customer	
Customer supplied Infrastructure hosted at customer site or on cloud	✓
Infrastructure Recommendation	✓
Solution Install	✓
Solution Support	
Solution Support provided via remote VPN\Team Viewer login using broadband internet	✓
Initial Configuration	✓
Help Desk & Technical Support - via Email, Phone, Skype	✓
Automatic updates and upgrades	✓
Backup Plan & Implementation	✓
Monitor and Maintain Solution	✓
System Administration	✓
Services & Training	
Initial Data Load	✓
Online Training	✓

Notes:

- TSP may amend solution features provided that such amendment does not render the system less useable by the Licensee.
- TSP endeavors to incorporate new features on an ongoing basis. New versions of the Solution may have new features and are subject to a license fee.