



White Paper

Revolutionizing Railroad Asset Management with Asset Maestro

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Handling Linear and Discrete Assets in Railroad Management using Asset Maestro:

Introduction: The global railroad industry, a critical facet of efficient transportation, is undergoing a transformative journey propelled by advanced technologies. Railroads have been integral to moving people and goods across vast distances, and the industry's resilience is evident. However, its challenges are numerous, particularly in field service operations. This case study delves into the intricacies of the railroad industry's challenges and how Asset Maestro emerged as a revolutionary solution. Asset Maestro was designed with a wealth of experience from global Fortune 100 companies. It is tailored to support large-scale infrastructure areas, including railroads, demonstrating scalability and efficiency.

Handling Linear and Discrete Assets in Railroad Management using Asset Maestro

- 1** It offers a 360° approach to asset lifecycle management for linear, fixed, movable, and discrete assets.
- 2** It efficiently manages track management, service inventory, and safety monitoring.
- 3** Challenges addressed include track management, accountability, inventory management, contracts management, vendor management, scheduling, remote asset monitoring, safety inspection, and mobility.

Challenges in Railroad Field Service Operations

Remote Locations and Infrastructure Constraints

- 01** Vast railroad networks often span remote areas, posing challenges for efficient field service operations.
- 02** Asset Maestro's mobile applications and offline functionality address communication hurdles, empowering technicians in remote locations.
- 03** Intricate machinery demands regular maintenance and repair, a task streamlined by Asset Maestro's maintenance optimization tools.
- 04** The software automates work orders, manages inventory, and extends the lifespan of critical assets.

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Safety & Compliance

Safety is paramount in the railroad industry. Asset Maestro ensures adherence to strict safety protocols with real-time safety alerts & comprehensive data on safety incidents.



Data Management & Analysis

Asset Maestro's robust data management and analytics capabilities allow organizations to collect, store, and analyze field data in real time.



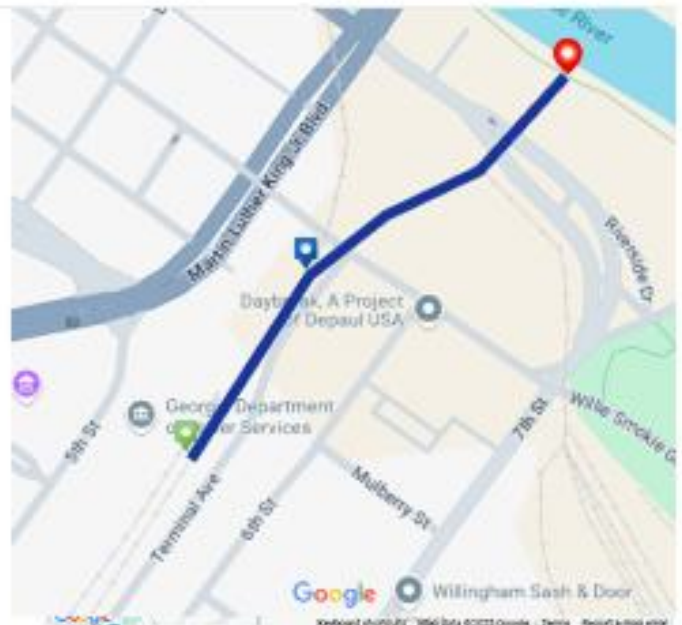
Workforce Training & Knowledge Management

- Advanced analytics and reporting tools provide insights into asset performance, enabling predictive maintenance.
- Asset Maestro's built-in knowledge management features ensure effective knowledge transfer and training.
- Standardized procedures & troubleshooting guides promote continuous learning, reducing reliance on individual expertise.

Asset Details Omnitrax - Georgia Central Railway

Details Linear Segment Discrete Asset Related Linear Asset

Name * Enter asset name	Linear Asset Type * Select Asset Type
Location * Enter location	State * Select State
Boundary Width Enter width	Width Unit Select Unit
Length Enter Length	Length Unit Select Length
Start Marker Enter Start Marker	End Marker Please Enter
Coordinates Enter coordinates longitude/latitude	Description Enter description



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Challenges

- 01 Scheduling Woes:** Efficiently scheduling maintenance and service operations posed a significant challenge.
- 02 Service Inventory Loss:** An annual Service Inventory loss of 8-10% affected operational costs, resulting in write-offs.
- 04 Zero Visibility on Remote Assets:** Managing remote assets lacked transparency, resulting in operational blind spots.
- 05 High Operating Costs:** Operating costs were higher, affecting overall financial efficiency.
- 06 Inconsistent Data:** The presence of inconsistent data hindered decision-making and operational planning.
- 07 Poor Productivity:** Operational productivity faced challenges, impacting overall performance.
- 08 High Percentage of Safety Issues:** Safety concerns were higher than desired, requiring a more proactive approach.
- 09 Low first-time fixed rate:** Due to the non-availability of the right person at the right time and location.

Major Benefits Realized



Dramatic ROI Improvement

Due to low Op-ex and Capex based on planned and predictive maintenance and higher first-time fixed rate.



Operational Visibility

The platform provides the stakeholders with operational visibility at the asset, assembly, and component levels.



Zero Service Inventory Loss

Loss of Service inventory was reduced to zero (0) by tracking parts/components and tools from issue to return-to-stock.



Safety

Higher safety standards are achieved by enforcing safety compliance per the government law for field technicians and remote sites.



Inspection

The platform supports the inspection of an asset at asset, assembly, and component levels and uses the data collected to predict the failure condition of the asset.



Real-time Decisioning

The platform supports real-time visibility of the warranty, SLA, and performance of the service provider and vendor, which helps stakeholders make faster decisions.



Operational Equipment Efficiency(OEE)

All the above factors increased the OEE and life of the asset.



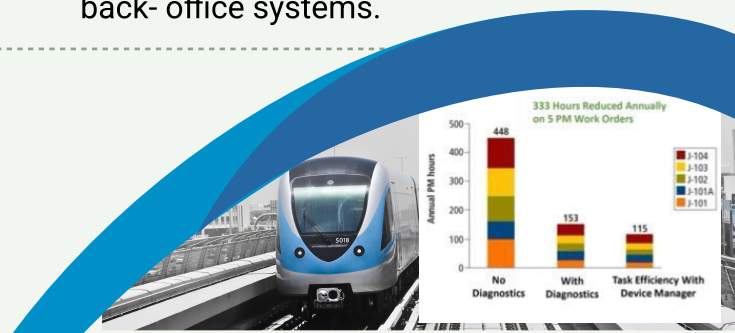
Single source of Truth

Data integrity prevails due to end-to-end digitization and integration with back-office systems.



Resource Management

Accountability and visibility of the remote resource in real-time.



Key Features & Benefits

- ➔ Seamless creation, assignment, and tracking of work orders for optimized operations.
- ➔ Mobile apps empower field technicians with real-time access to critical information.
- ➔ Intelligent schedule and dispatch based on availability and proximity minimize travel time, enhancing overall productivity.
- ➔ Optimize travel routes to minimize fuel consumption.
- ➔ Ensure a single source of truth with back-office integration.

How We Can Elevate Your Organization

-  **Asset Lifecycle Management**
Our 360-degree approach ensures optimized maintenance, safety, and overall Equipment maintenance, safety, and overall Equipment Effectiveness (OEE) for linear, fixed, movable, and discreet assets.
-  **Operational Efficiency**
Asset Maestro streamlines operations, reduces downtime, and extends the lifespan of crucial assets, resulting in improved operational efficiency.
-  **Safety and Compliance**
We prioritize safety through real-time safety alerts, comprehensive data on incidents, adherence to industry protocols, ensuring compliance.
-  **Passenger Mobility Enhancement**
Our vision extends beyond operations to enhance passenger mobility. Introducing a mobile app for commuters offers real-time information on train schedules, route traffic, maintenance schedules, public announcements, and more.
-  **Feedback and Grievances**
Commuters gain a platform to share feedback, report grievances, and stay informed about the progress of work orders that directly impact their journey.
-  **Security, Safety, and Emergency Response**
The app serves as a crucial tool for alerting authorities, command centers, or security teams in case of emergencies, ensuring a secure and ecosystem. The Railways Security team can broadcast or push notifications and alerts to commuters.

Success Story: Servicing Major Railroad Companies (CPR, BNSF, Kansas City Southern, CSX, Union Pacific, and Norfolk Southern):

Asset Maestro successfully addressed challenges across all Class 1 Railroads in North America.

Your Future Success

Asset Maestro from Agelix Consulting LLC has revolutionized railroad field service operations, addressing challenges in remote locations, maintenance, safety compliance, data management, and workforce training. Its successful implementation showcases significant improvements in efficiency and safety, making it an indispensable tool for global railroad companies. Choose Agelix Consulting LLC and Asset Maestro for a transformative journey, leveraging our proven Enterprise Asset Management platform tailored for operational brilliance, financial efficiency, and a path to excellence. Let us be your trusted partner in scripting your organization's success story.



For more information on how Asset Maestro can transform your railroad operations, visit

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To schedule a demo, call us at

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