

.RIA

Enterprise SaaS Fleet Management Solution through Intelligent & Reliable Telematics.

Global pioneer of trucking solutions for all business models with 35+ years of experience in the complex transportation ecosystem.

CASE STUDY

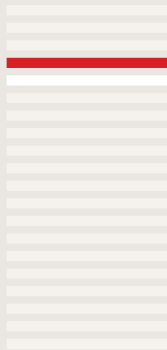
PROUDLY PRESENTED BY RIA TEAM



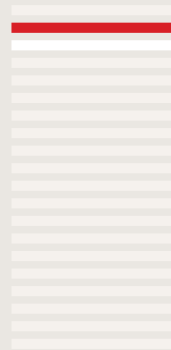
Client Profile & Business Context. Global pioneer of trucking solutions for all business models with 35+ years of experience in the complex transportation ecosystem.

With over 1,000 employees, our customer is delivering Software-as-a-Service (SaaS) based solutions to help more than 12,000 customers manage nearly 1,100,000 assets in more than 70 countries.

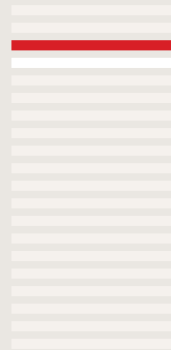
35+
years of
experience



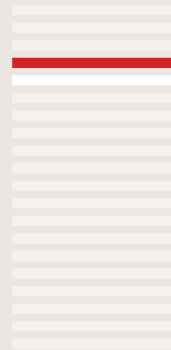
SaaS
type of
services



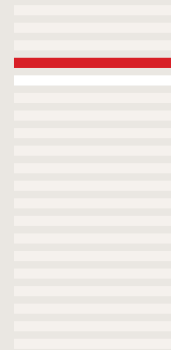
70
countries
presence



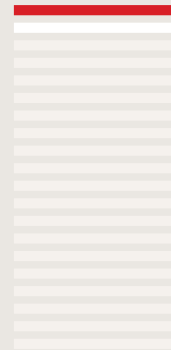
1,100,000
assets



1,000+
employees



12,000
customers



Challenges. In paving the way for companies to improve the productivity, reliability, safety and compliance of their fleets

our team has supported our customer in crafting a solid enterprise platform. The solution enables applications interconnectivity and streamlines logistic processes for drivers, back-office and customers.

This digital transformation journey is both exciting and demanding at the same time and it involved the following challenges:

CHALLENGE

Lack of scalability

in processing high volumes of data that required heavy-duty algorithms optimization and complex map re-engineering.

EMBRACED BY ● TEAM

CHALLENGE

Low-level integration

with telematics devices & third parties needed to ensure reliable & efficient communication of fleet operations.

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CHALLENGE

CHALLENGE

High complexity

of the route management landscape which implied a critical eye in balancing distance & cost optimization strategies.

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CHALLENGE

Fast-paced demands

of the transportation market that required high agility in tailoring solutions to fit customer needs.

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CHALLENGE

Our Approach & Solutions. Our solid experience in the Logistics & Transportation sector, proven by long-term partnerships with other leaders

in the industry, allowed us to quickly match our knowledge & capabilities to the needs of our customer and to successfully enhance the digital modernization of our customer's services.

In our 8+ years of partnership with the customer, we have crafted many journeys that have driven innovation and have helped fleets thrive. Our team has evolved a suite of SaaS services & digital solutions designed to improve the speed and accuracy of all fleet activities:

01 Geofencing control mechanism

a geofencing control mechanism implemented during the COVID-19 pandemic for the automatic or manual remote control of lockers to enable freight access based on geolocation.

02 Graphical editors

a routing solution that runs with parallel strategies, is adjustable through hundreds of parameters and allows fine-tuning of the routes using graphical editors.

03 Reliable communication

customized push-pull mechanisms that ensure real-time, reliable communication and that integrate with proprietary and third-party telematics devices.

04 Device customization

tools and services to aid routes in progress, allowing dispatchers to update planned routes keeping track of actual and providing ETAs.

05 Dispatch strategies to:

- find planned routes based on a GPS device's vehicle or create unplanned routes on the fly
- create stationary points based on configurable preferences and then determine when in a geofence
- create unknown stops for when the driver is stationary and a corresponding planned stop is not found
- automatically complete stops and calculate ETAs based on incoming GPS
- consider complex cases like overlapping geofences and mall deliveries

06 Enhanced auditing
and reporting tools to calculate IFTA (International Fuel Tax Agreement) requirements and meet increased compliance obligations.

07 Customized business intelligence reporting that covers metrics in the following areas:

- driver performance metrics such as used fuel, idle time, time on the road, PTO (Paid Time Off), fuel economy
- aggregated performance monitoring (per region, per worker, per device)
- truck maintenance intelligence and equipment wear metrics

08 Application monitoring
and performance optimization through intensive load & stress testing on a range of 70+ applications used by 10000+ users in 20+ complex cases.

Technologies. Below is the technology stack used across the solution landscape.

As a Microsoft Gold Partner, we leveraged our extensive experience in Microsoft technologies to craft an architecture that would boost the robustness, scalability and availability of the fleet management solution.

ASP.NET

Knockout

DevExpress

Amazon MQ

Amazon SES

AWS

SQL Server

NHibernate

TeamCity

ReSharper

Twilio

SAP

Crystal reports

Results. As a value driven organization, generating results is part of our DNA.

In our long-term partnership with our customer, we managed to create plenty of success stories that have crystallized results like:

RIA ENGAGEMENT

8+

years
collaboration



100k

hours subject
matter expertize



18+

languages
connectivity



90k

trucks
asset management



500k

fleet
management



30k

equipment



300k

subscription
managed



Optimized fuel costs

by implementing flows that eliminate unnecessary miles driven, reduce engine idling, and positively influence driver behavior.

Real-time adjustment

enabled real-time adjustment of routes when needed based on traffic monitoring.

Improved fleet profitability

and productivity by scaling up the number of telematics flows from 2 to 10+ and by expanding monitoring capacity on various KPIs such as time and distance deviations and PTO usage.

Enhanced routing management

solution to cover an average of 37 quadrillion routes for an example of 5 vehicles and 10 delivery stops.

Reduced maintenance costs

by tracking and controlling speed to reduce wear, monitoring remote assets, and eliminating unplanned downtime.

Risk prevention

increased risk prevention while driving by remotely monitoring driver safety.

International coverage

expanded the platform multi-language support for operating in new countries by 300% in the last 2 years, resulting in an international coverage of 18 different languages.

Optimized application performance

and scaled existing services by enabling large enterprise end-customers operate with fleets of 90,000+ trucks on 10,000+ routes. This technical modernization project has facilitated the integration of new clients with big volumes of data.

Looking for a business solution? Find out how we can put solutions like this to work out for you. Get in touch with us.

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