

# .RIA

## Enterprise Mobility, Visibility & IoT Cloud- ready Solution for Robust Fleet & Transportation Management.

Global Digital Company with  
over 10.000 employees across  
40 countries, delivering  
products and services.

CASE STUDY

PROUDLY PRESENTED BY RIA TEAM

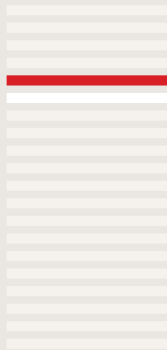


## Client Profile & Business Context. Global Digital Company with over 10.000+ employees across 40+ countries.

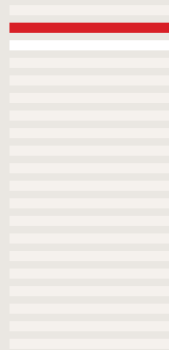
For over 40+ years now, our client is delivering products and services that are transforming a broad range of industries with a relevant focus on transportation and logistics.

Their business activities encompass a revenue of over \$3 billion for 2019 and their aim is to impact, modernize and sustain the digitalization of transportation & logistics services worldwide.

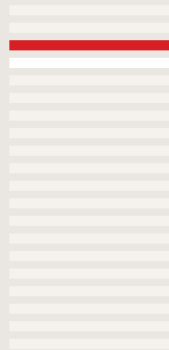
**40+**  
years of  
experience



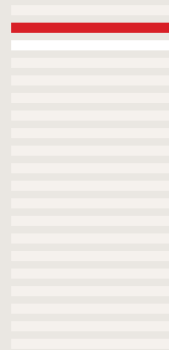
**T&L**  
transportation  
and logistics



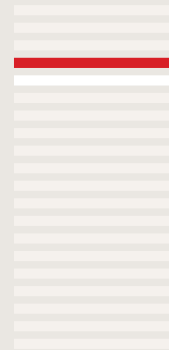
**40**  
countries  
presence



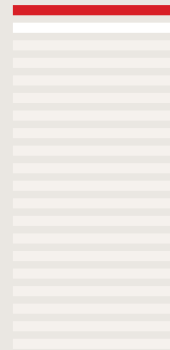
**3 billion**  
revenue  
in 2019



**10,000+**  
employees



**150+**  
countries  
customers



“

RIA Solutions Group's work has met expectations. The team successfully drove true value for third-party clients, while meeting their main client's assigned success metrics. We've had a long-standing relationship with them and have been really happy over the years. Customers can expect a reliable team that gets the job done.

— DIRECTOR OF CUSTOM DEVELOPMENT

**Clutch**

This review it's available online on RIA Solutions Group profile page on [clutch.com](#). Please [click here](#) to visit the page.

# Challenges. Enabling agility in a high complex environment.

Aiming for enabling digital transformation of their fleet management solution & processes, our client faced several challenges that our teams have successfully overcome:

## CHALLENGE

### High complexity

IT landscape which required deep functional & technical understanding of all components & processes.

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## CHALLENGE

### Security & compliance requirements

Great complexity of technical environment due to security & compliance requirements.

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## CHALLENGE

## CHALLENGE

### Low-level integration

with various sensors & devices like tankers, odometers, fuel meters and many others needed to enable performance monitoring of everyday fleet operations.

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## CHALLENGE

### Customer intimacy

High agility of transportation market required fast development lifecycle and customer intimacy.

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## CHALLENGE

## CHALLENGE

### Microservices in the Cloud

High availability & scalability needs of services which inspired our teams to go for a microservices solution in the Cloud.

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## CHALLENGE

## CHALLENGE

EMBRACED BY ● TEAM

## CHALLENGE

# Our Approach & Solutions. Two teams for two platforms.

To address our customer's needs in an optimal way, we have governed the project by using 2 teams that focused on different aspects of the transportation ecosystem:

## 1. The Enterprise Mobility Platform.

For enabling a customized driver experience.

Our contribution to the implementation of the **Enterprise Mobility Platform** consisted of various customized applications for fleet devices that would enable monitoring of vehicle health, locating and messaging, navigating and routing, driver performance assessment and safety & compliance management. To be more specific, our success stories include, but are not limited to, the delivery of:

### 01 IoT solution

for an Odometer overnight service reporting. Our team implemented analytical processes for reports on vehicle health & mileage, calculating the night work bonus payment for drivers.

### 02 Several Route Management

applications with real-time reporting and data transfer between the dispatching systems and driver vehicles.

### 03 Security & compliance information

an application that enabled fast delivery of security & compliance information, allowing drivers to follow regulatory instructions, reducing security risks.

### 04 Device customization

and applications repackaging according to the custom needs of the end client's fleet devices.

### 05 Restricted access

restricted access ensured to certain resources and limiting access to applications available in the device profile.

### 06 Optimizing device memory

a memory profiler for optimizing device memory and preventing memory leaks.

## 2. Fleet Management Portal

For monitoring everyday fleet operations

The Fleet Management Portal implementation encapsulates our contribution in delivering a system for centralized remote fleet & vehicle real-time monitoring, location services & notification management and targeted reporting.

Using a highly available and scalable SaaS approach employing a microservices architecture powered by Amazon's Cloud Services, we have successfully developed important pieces of the portal such as the ones below:

- 01 Dashboard**  
for consolidated vehicle overview and monitoring. Allowing the dispatcher to perform various operations as tracing the geolocation or the route of a certain vehicle, remote vehicle inspection of potential failures, remote communication and relevant analytics.
- 02 Fleet management services**  
Subscription functionalities for managing end clients subscriptions to fleet management services.
- 03 Monitoring vehicles**  
Reporting features for monitoring vehicles, subscriptions and events.

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

Bridging between a customized driver experience solution and the Fleet Management Portal required us to combine various cutting-edge technologies from Microsoft to Open Source, exploiting at the max the great capabilities of the Amazon Cloud technologies.

<b>Xamarin</b>	<b>Kotlin</b>	<b>ASP.NET</b>	<b>Selenium</b>	
<b>Java</b>	<b>Spring</b>	<b>Hibernate</b>	<b>MySQL</b>	
<b>Cassandra</b>	<b>Amazon SQS</b>	<b>Amazon SNS</b>	<b>Amazon S3</b>	
<b>Amazon EC2</b>	<b>Amazon Athena</b>	<b>Amazon CloudSearch</b>	<b>Amazon EKS</b>	
<b>Amazon Lambda</b>	<b>Terraform</b>	<b>Rancher</b>	<b>Docker</b>	
<b>Apache Camel</b>	<b>Elastic</b>	<b>Apache Kafka</b>	<b>Angular</b>	
<b>Node.js</b>				

**Results.** The collaboration with our teams resulted in various solutions.

## RIA ENGAGEMENT

**6+**

years of successful collaboration



**50k**

hours subject matter expertise



**10+**

applications connectivity



**25+**

microservices



### **Developing competitive advantages**

partnered with our customer in fostering success by developing competitive advantages in a demanding volatile market.

### **Visibility and traceability**

expanded visibility and traceability of fleet data relevant for various stakeholders, from business specialists and admins to end users like far-out drivers.

### **Personalized driver experience**

enriched functionality for personalized driver experience and helping the end-users get their job done in a timely and effective manner.

### **Real-time communication**

modernized device applications ecosystem and enhanced real-time communication.

## **Security & compliance instructions**

reduced transportation risks and improved prevention tactics by implementing fast & reliable communication of security & compliance instructions.

## **Microservices approach**

ensured scalability and high availability of the solution through our microservices approach and integration with Amazon Cloud services.

## **Tailored delivery & agility**

increased tailored delivery & agility throughout the full project lifecycle to ensure customer expectations have been exceeded in a fast-paced environment.

## **Optimized business performance**

enhanced investment decisions by focusing on preventive measures which led to optimized business performance.



# 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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Visit our website for more insight into our business and technical capabilities, what fuels the energy behind our talent and other ways we strive to make an impact in the lives of our customers and their businesses.

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