

GemOne®

# New Product Range

2024



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# 1. Introduction

We're delighted to introduce our new product range to you.

Over the past year, we've added functionalities to our core solutions which help fleet managers boost operational efficiency, enhance safety, avoid unexpected downtime, and track their vehicles.

In addition, we're offering some exciting new accessories to our core solutions which further enhance workplace safety and fleet efficiency.

We've also been developing a range of supplemental services that focus on solving the problems of the businesses we serve: the material handling industry, logistics firms, equipment dealerships, service companies, rental businesses, and construction companies.

These new products and services demonstrate our continued commitment to ensuring businesses using industrial machines have the smart solutions they need to unleash the potential of their fleets.



**GemOne®**

## ***2 - Core range***

These are the most up-to-date versions of GemOne's core telematics offerings: fleet and safety management solutions that help businesses enhance the safety and efficiency of their industrial fleets.

*2.1 Sapphire*

*2.2 Onyx*

*2.3 Battery Monitoring*



## 2.1 Sapphire

### Safety management for material handling

*Telematics solution for asset and driver management*

Sapphire is a **safety management solution** for the **material handling industry** which has unleashed the potential of tens of thousands of industrial machines across the world.

Whether you're an **equipment dealer or the owner of a fleet of material handling machines**, Sapphire increases the safety and efficiency of your fleet today and future-proofs your business for tomorrow.




# Sapphire

Sapphire delivers real-time data which helps you derive actionable insights about the safety and operational efficiency of your material handling fleet.

This real-time data is available on the GemOne Cloud platform, accessible from any device.

Sapphire is 4G and Wifi network enabled with hardware that is high quality, robust, and IP67 certified for industrial use (resistant to dust, sand, and water).

And Sapphire works on any forklift you own, regardless of make or model.



Change photo

Asset name\*

Liebherr integration 1

Asset make\*

Liebherr

Asset model\*

(MANITOU 420H 49K Z-338/600)

Year of manufacture

2020

Serial prefix

Z-338

Serial number

S/N 1106840436

Organisational unit

Warehouse Hatvan

Asset type\*

Warehouse equipment

Asset subtype

Forklifts

Type \*

☒ Off-road ☐ On-road

Current operating hours

150


Custom labels

Leasing type: operational

Electrical forklifts: 2T

General info

Details



Organisational unit: Warehouse Hatvan

Type: Warehouse equipment

Subtype: Forklifts

Labels: 2T (Electrical Forklifts), Operational lease (Leasing)

Inactive

Connected device

Change

Last information received: Oct 25, 2021, 05:32

Device: GEM-0X-C

Status: Inactive

GSM signal strength: 0

Asset power: 14,62 V


Inputs connected: 2

Active alerts (2)

25 Oct 2021, 23:15 Device inactivity

25 Oct 2021, 20:15 Asset undervoltage

Now operating



Alan Gefferson

Operator


Session start: 25 Oct 2021, 23:15

Operating hours: 563.3 h

Battery Voltage: 12.96 V

Last location detected

Last information received: Oct 25, 2021, 05:32




Paro Taksang Trail, Saudi Arabia

View on Google maps

Check coordinates

Operator activity

Session time 250 h Machine is loaded 160h



GemOne

Dashboard

Assets

Operators

Devices

Safety

Alerts

Analytics

Fleet Connectivity

Assets availability

Checklists Results

Impact Summary

Impact insights by asset

Results: 30

DATE

Apr 30, 2021

Apr 27, 2021

Apr 23, 2021

Apr 20, 2021

Apr 17, 2021

7h:12min

5h:14min

4h:22min

Liebherr integration 1

items per page 5

GEMONE NEW PRODUCT RANGE - 2024



# Sapphire

- **Driver safety checklists**  
Never fail on your safety requirements again.
- **Real-time notifications of impacts**  
End your lack of oversight on reported impacts.
- **Driver access control (PIN code, RFID card, or RFID fob)**  
Put an end to unapproved use of your machines.
- **Operator licence and safety training expiration tracking**  
Cut out the unlicensed use of machines for good.
- **Hours meters reporting**  
Know which machines operate the most.
- **Session reporting**  
Gain insights on how operators use your equipment.







- **Standalone software and communication**  
including driver messaging when on Wi-Fi and 4G.
- **Customizable reports**  
Know about safety checklists, utilisation, incidents, and licence expiration.
- **Wireless Communication**  
4G LTE mobile and Wi-Fi, dependent on your needs.
- **Service scheduling and verification**  
Save time and money on servicing and maintenance.
- **GemOne Cloud platform**  
Management access to data via any internet enabled device.





[Download the brochure](#)



## 2.2 Onyx

### Fleet management for your mixed fleet

*Telematics solution for fleet tracking and management*

Onyx is a fleet management solution for the equipment rental and construction industries which monitors your mixed industrial fleet in real time.

Know where a machine is located, when it is being operated, and when it is due for maintenance.

Onyx accommodates machines of all makes and models.

GemOne also integrates other trackers from different telematics providers that are installed on your equipment with GemOne trackers so you have one easy-to-manage system.



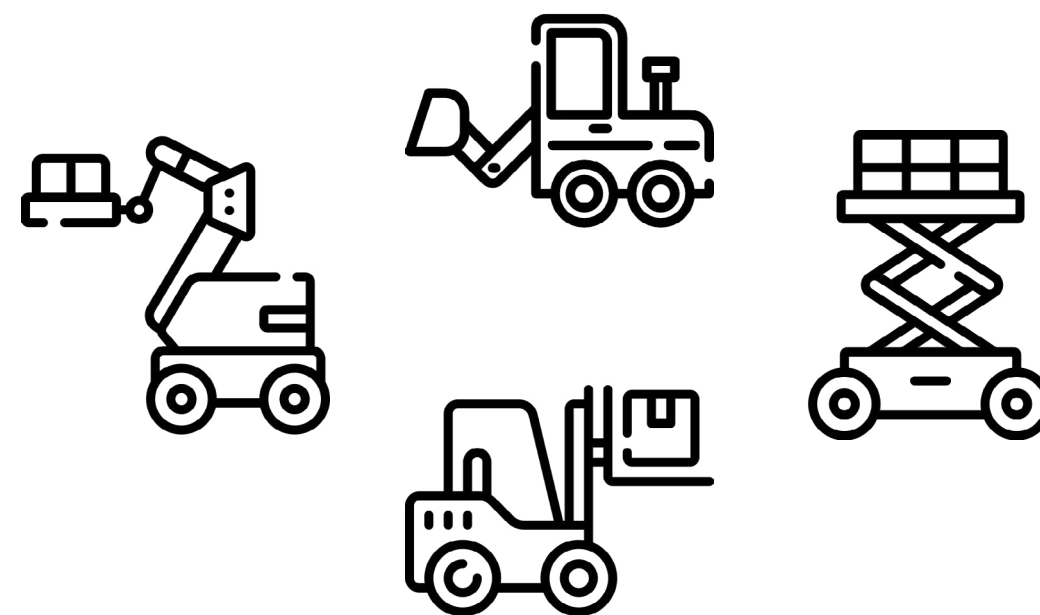


# Onyx

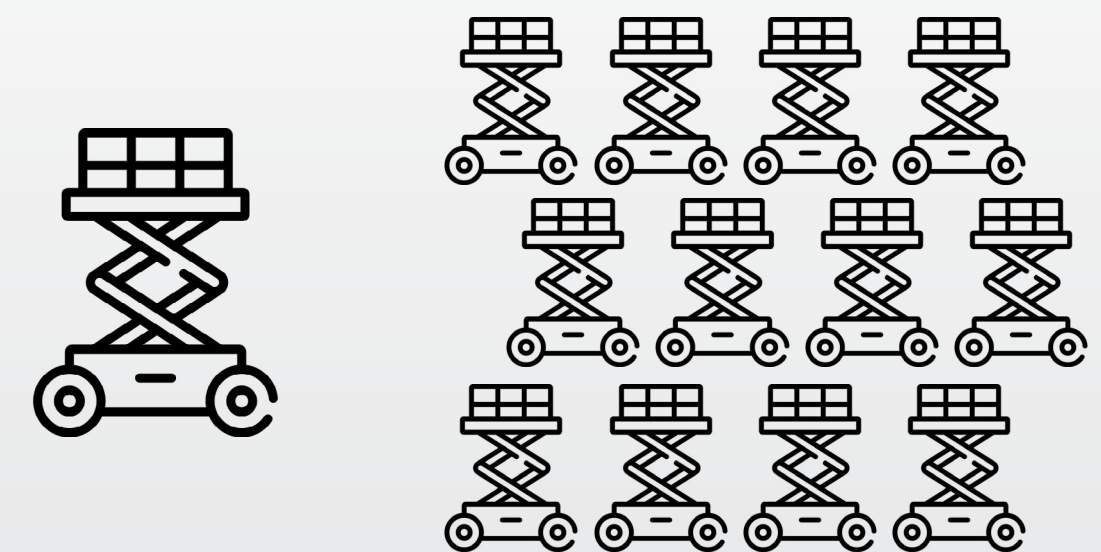
**For all industrial mixed fleets**



**Rental or construction  
or warehousing**



**Regardless of make  
or model**



**From a single vehicle  
to a fleet of thousands**



# Onyx

## How it works



1

Install an Onyx tracker on your machine or integrate data from existing trackers into our GemOne Cloud platform

2

Monitor your fleet in real time and gather data and insights on the GemOne Cloud platform

3

Use data to boost efficiency, enhance safety, and unleash the potential of your industrial fleet

# Onyx

## Monitor your fleet in real-time



### Track & trace

Know where your vehicles are at any moment.  
*Featuring real time GPS track and trace, trips reporting, location history, and geofence alerting.*



### Service & maintenance

Avoid unexpected costs and downtime.  
*Including service estimation, battery monitoring systems, and CAN-error readings.*



### Operational efficiency

Measure the use and efficiency of your fleet.  
*Boost productivity with usage reporting and machine use statistics, comprehensive alerting options, and user, fleet, and device management systems.*



### Security & safety

See who is using your machines and whether they're using them safely.  
*Work more safely with features such as access control and proximity warning.*





[Download the brochure](#)



## 2.3 Battery Monitoring

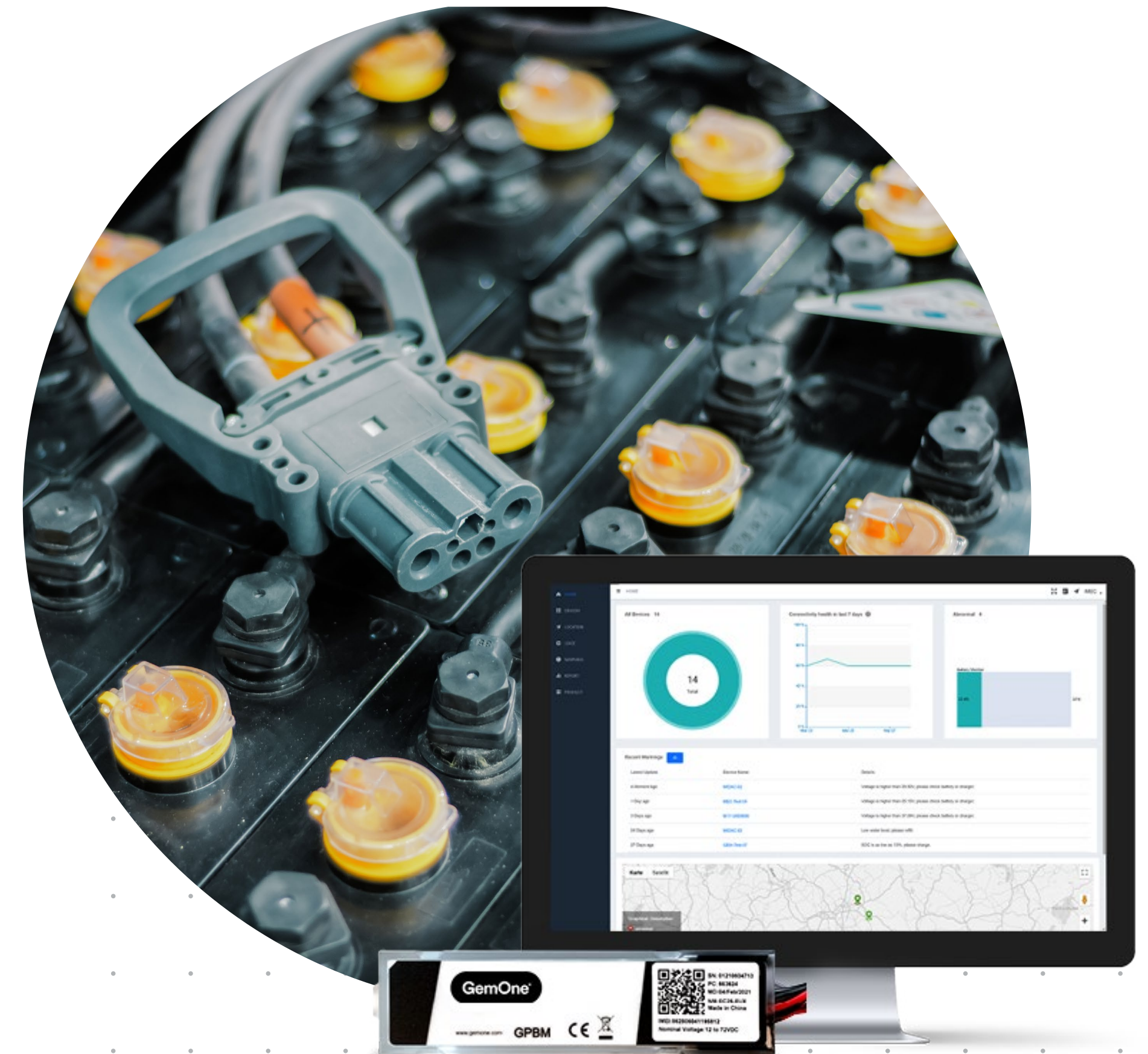
Industrial batteries can be expensive and difficult to manage.

In addition, the increased electrification of heavy equipment across fleets means that consistent battery management has become more important than ever.

The batteries that power your industrial fleet drive your business forward.

### Our Battery Monitoring helps you:

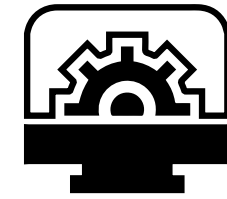
- > Avoid the unnecessary wear of your batteries
- > Prevent downtime of battery powered machines
- > Maximise battery charge cycles
- > Optimise the performance of your batteries
- > Prolong your batteries' lifespan





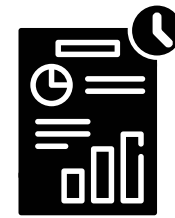


# Battery Monitoring



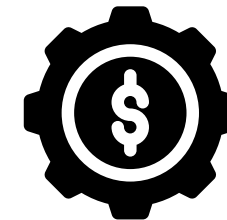
## Install our solution easily

An easy to set up system which allows you to monitor all your batteries on one single stand-alone cloud platform.



## Get real time information

Get reports, warnings, and alerts when something is amiss so that service technicians and operational staff can address anomalies and maintain good battery health.



## Lower your operational costs

Monitoring battery conditions allows you to prevent downtime and significantly lower the costs of your operations.



## 4G Connectivity

4G enabled for wireless connectivity.  
No need to manually download data.



# Battery Monitoring

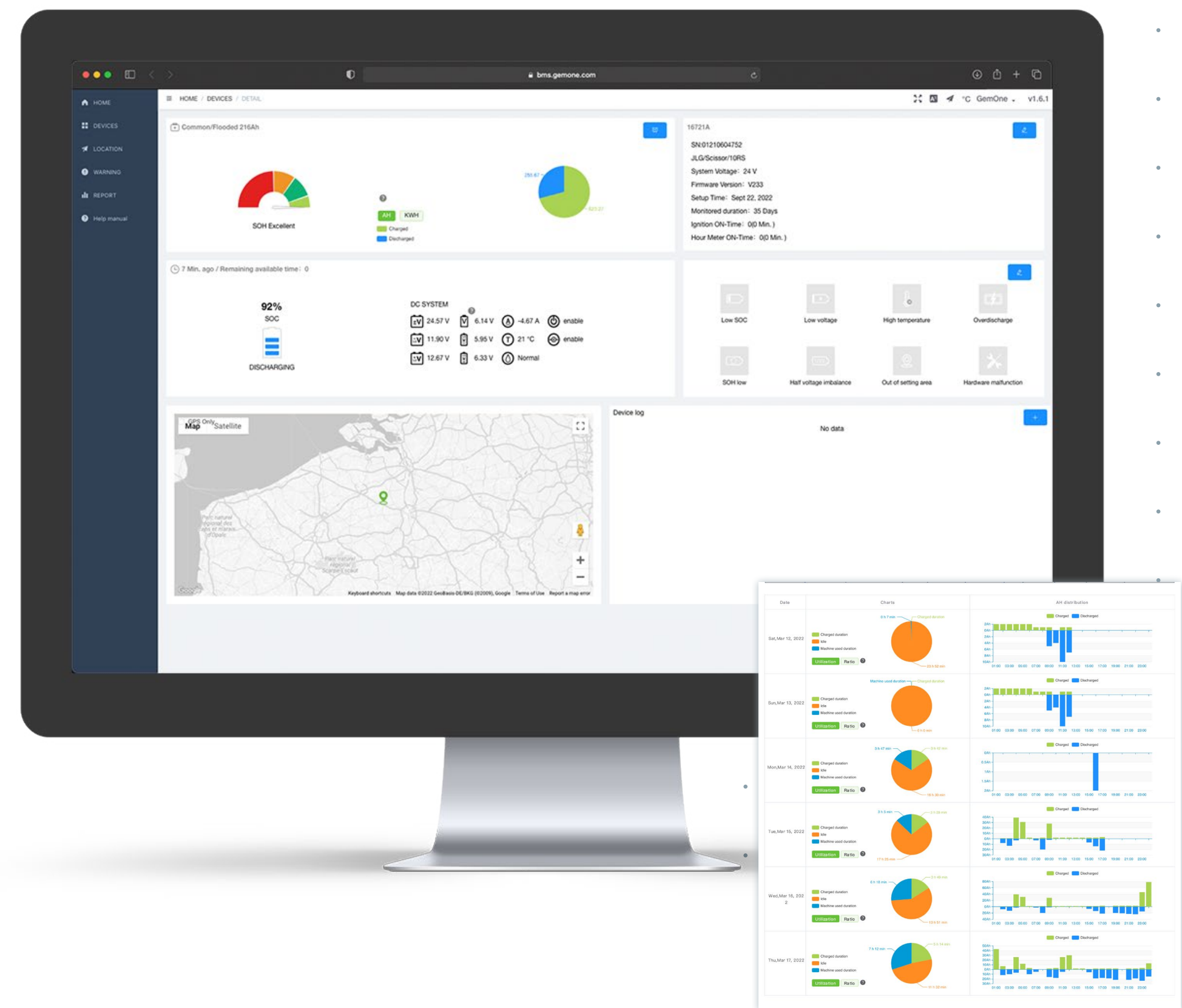
Our Battery monitoring works with electrical machines with both lead acid and lithium ion batteries across a wide range of voltages to keep you up to the minute on a wide range of operational parameters.

## Our battery monitoring monitors

- > Total and midpoint voltages
- > Charge and discharge currents
- > Temperature
- > Electrolyte levels
- > GPS based location
- > Additional digital inputs (key switch, hour counter)

## These measurements allow you closely follow up on

- > State of Charge
- > State of Health
- > Improper use
- > Service intervals





Depending on your operational requirements and the characteristics of your batteries (i.e. whether you swap batteries between machines), our Battery monitoring can act as an alternative to the Onyx tracker.

Speak to your GemOne representative for more details on how we can meet the particular needs of your battery powered machines.

[Download the brochure](#)





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# **3 - *New Accessories***

These are the new features and functionalities at the cutting edge of fleet management technology that help you to further enhance safety in your workplace and streamline telematics installation across your fleet.

*3.1 Access Control*

*3.2 Forklift Cameras*

*3.3 Forklift Load sensors*

*3.4 Machine Connectors*

*3.5 Proximity Warning Solution*



## 3.1 Access Control

### Operator Access Control via PIN/RFID

*Put an end to unapproved use of machines*

Give access to your machines to approved operators via a pin code, RFID card, or RFID fob. Choose who you want to operate each machine, based on your own criteria of certifications and training.

Those using standard non-RFID badges who don't want to manage a second ID card may also be able to integrate their existing cards into our GemOne Cloud platform or attach our optional RFID sticker to their current badges for seamless use.

Access control via PIN comes standard with Sapphire, with an RFID option depending on your needs. Access control is also an optional add-on for Onyx.





## 3.2 Forklift Cameras

### Get rid of dangerous blind spots in operator visibility

- > Reduce risk of equipment damage
- > Increase productivity
- > Reduce operator fatigue and stress.
- > Shorten training time for new drivers.
- > Increase work area safety.

Operators see clearly with the HR cameras (720p) where their vision is normally limited: in high level racking, double-deep racking, low level lighting, and blind spots.

Sapphire displays up to 4 camera views.  
Cameras are recording if the forklift is turned on.





# Forklift Cameras

The cameras are easily installed on a strong, secure, magnetic base with no welding or drilling required.

Cameras can be repositioned as needed and are suitable for use indoors and outside.

The cameras automatically record video to capture data that assists incident investigation.

Local footage playback gives the ability to view footage directly from the Sapphire display.

Get up to 11 days of video and then easily swap out your SD card for more.



# Forklift Cameras



## Mast View

Provides the operator with a clear view of fork depth and views over the load on their blind side.



## Fork View

Installed onto the carriage to assist with viewing of the fork tips. Ideal for high-lift height applications or double-deep racking.



## Rear View

Provides an overview of the work area, especially helpful when backing into tight quarters. The operator can view into blind spots with excellent picture quality in low light.



## 3.3 Forklift Load Sensors

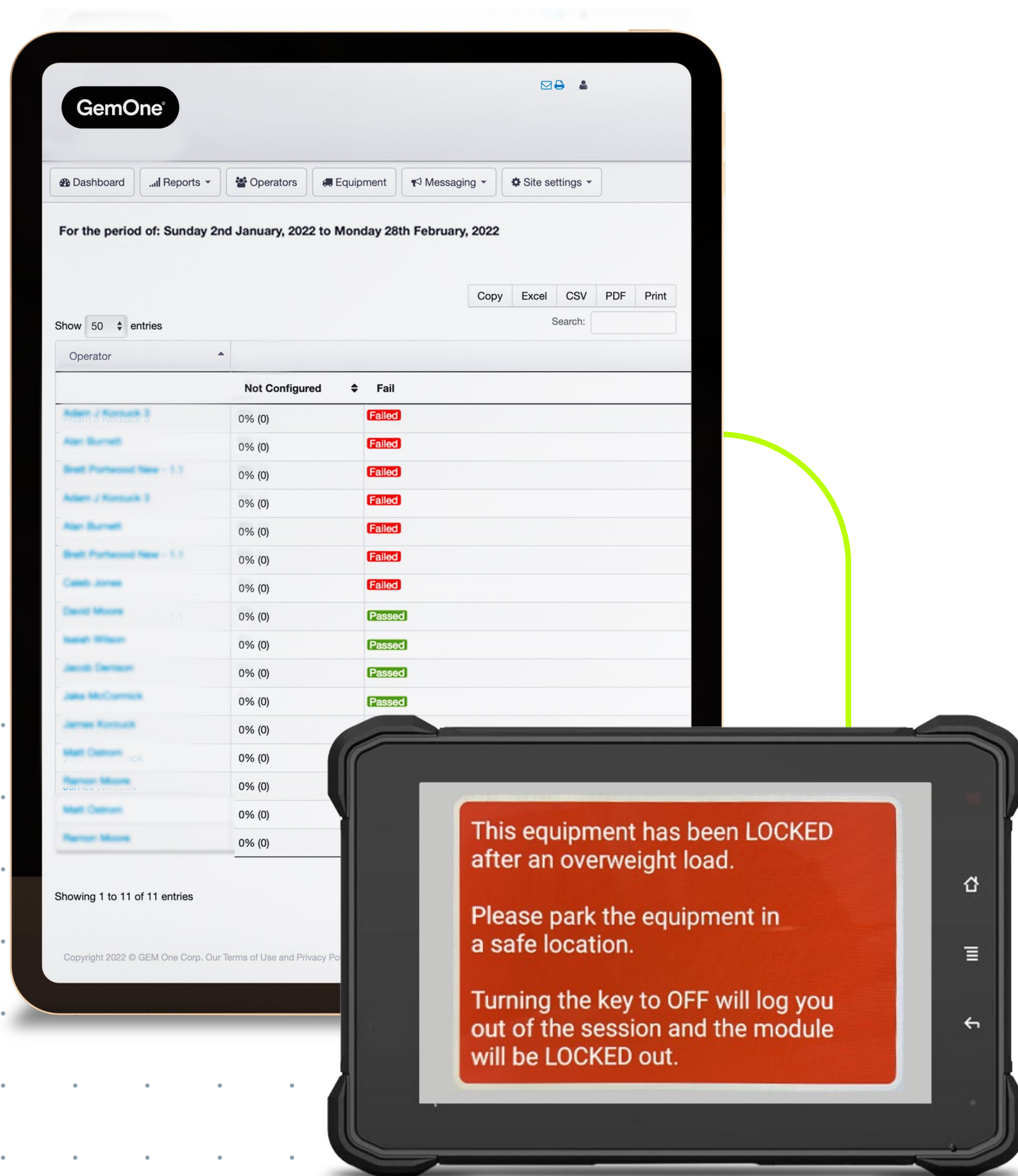
### Forklift Load Sensors

*Never overload your forklift again*

Designed to fit any forklift model, our digital forklift load sensor prevents overloading, ensuring your operators work safely and your equipment is protected.

- > Avoid dangerous situations relating to the overloading of forklifts.
- > Minimise the maintenance costs of machine wear and tear.
- > Protect your machines and increase equipment longevity.





An **overweight alarm** prevents the forklift from lifting weights in excess of the equipment's capacity.

You can **enable automatic lockout** of your forklift in the case of weight overload for a safer working environment.

**Calibration is simple and accurate**, with 1kg or 1lb increments, depending on your preferences, to within 2% of the forklift rated capacity.

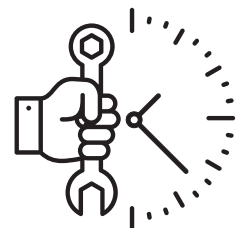




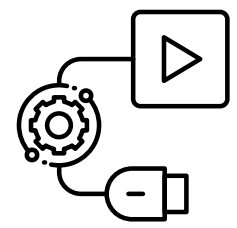
\*Optional add-on Onyx

# 3.4 Machine Connectors

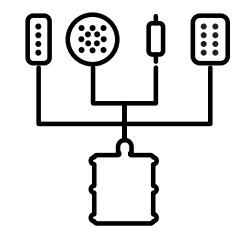
Plug and play.  
It's that simple.



**Save technicians time:**  
No more long, complicated installations.



**Avoid installation errors:**  
No more loose wires or faulty signals.



**Uniform installation:**  
No more frustrating variation across your fleet.



# Connectors



**Start using your trackers immediately, without technical problems.**

Once connectors have been wired into your machines, you'll **fully eradicate tracker installation errors.**

**Make better use of your technicians' valuable time.**

When using existing manufacturers' connectors on your machines, you'll **reduce tracker installation time from 2 hours to just 30 minutes.**



**Install trackers on every type of machine in your fleet — in the same, easy way.**

Once wired in, you'll ensure your **fleet has uniformity** in how trackers are installed.





[Download the brochure](#)





# 3.5 Proximity warning solution

Powered by *Lopos*

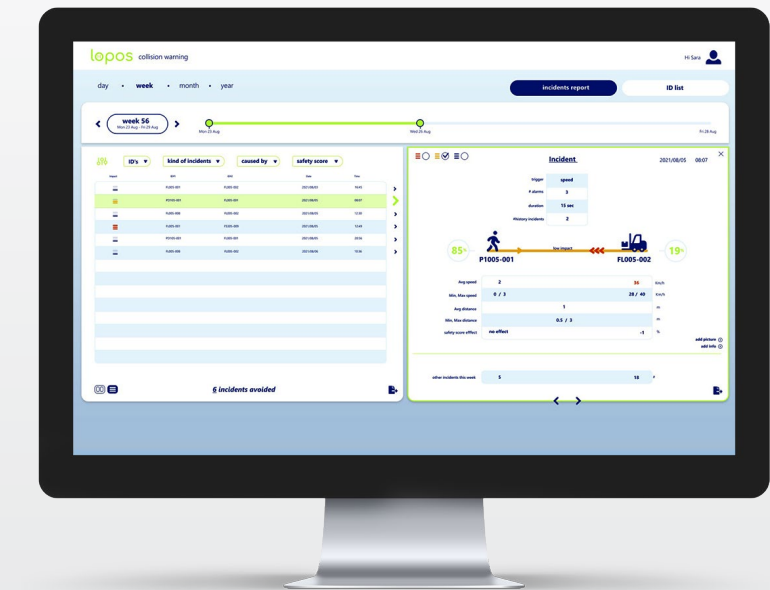
Forklifts are vital to your business, but they introduce risk to the workplace.

Our 360° proximity warning system equips you with the alerts and actionable insights you need to reduce forklift incidents and make your workplace environment safer.



# Proximity warning solution

## How it works



## The alerts

Receive immediate feedback when a proximity perimeter is breached through alerts in a variety of formats: audible, vibrations and bright LED light.

## The tech

Forklifts are equipped with a “beacon” and workers with a “wearable”. These devices communicate with each other using ultra-wideband technology.

## The insights

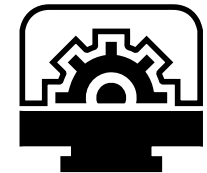
Gather actionable insights through our online platform to improve overall safety and reduce incidents in the warehouse.

# Proximity warning solution



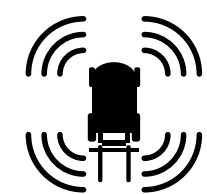
## For every forklift

Our solution works on every forklift, no matter the type or brand, both in your warehouse and outside.



## Easy installation

It requires no additional infrastructure and is designed to integrate into your current or future GemOne telematics system.



## No blind spots

With our 360° proximity detection, you'll receive alerts no matter where you are located around the forklift.



## Totally configurable

Customise the alert sounds, light warnings, and detection range in line with your own safety policies.



## Online Platform

See reports on an online GemOne Cloud platform so you can gather insights in real-time.





[Download the brochure](#)



# 4 - *Services*

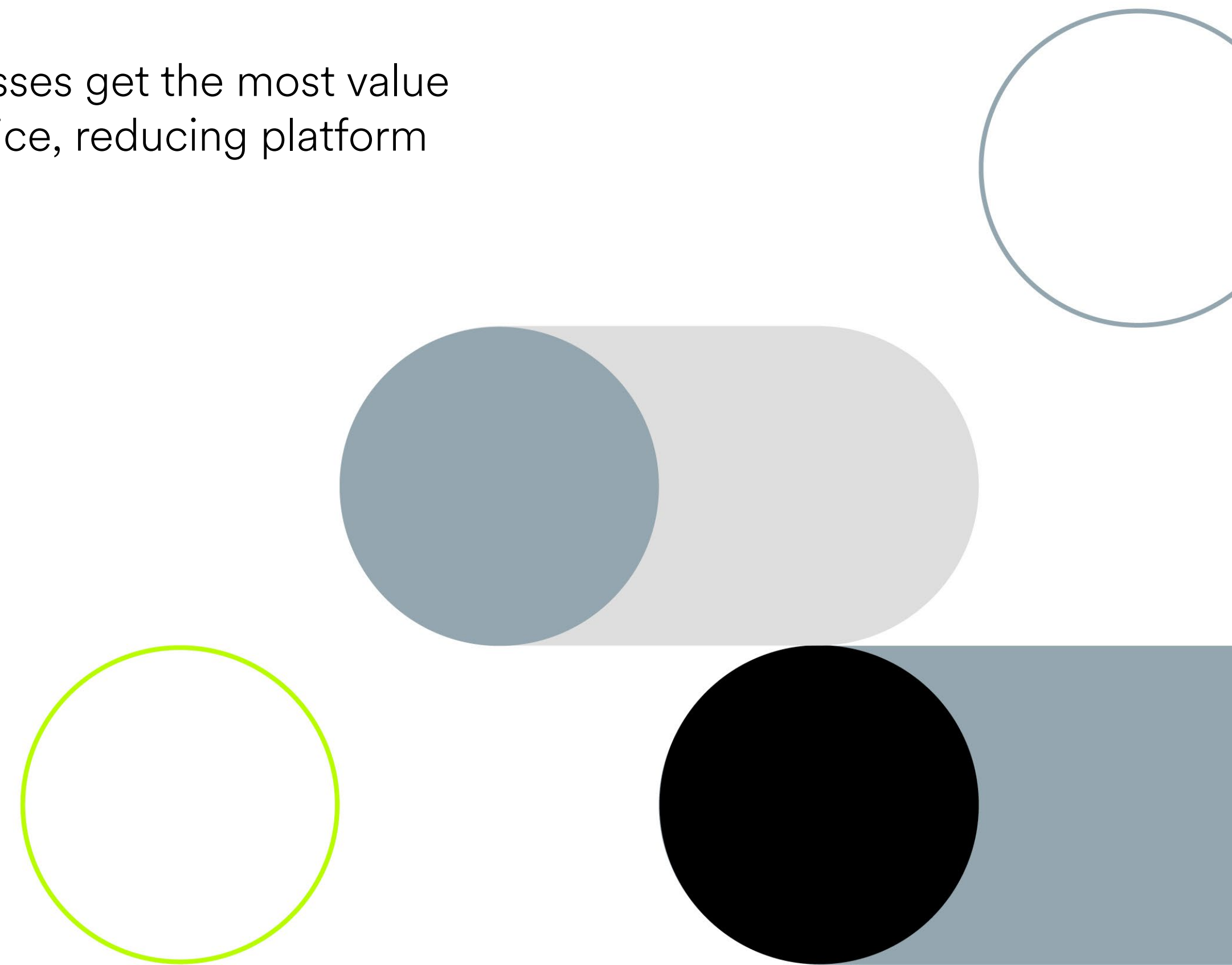
These are a set of digital transformation services that help businesses get the most value possible out of their telematics solution, improving customer service, reducing platform complexities, and helping save valuable time.

4.1 GemOne Cloud

4.2. CAN bus data services

4.3. OEM device integration

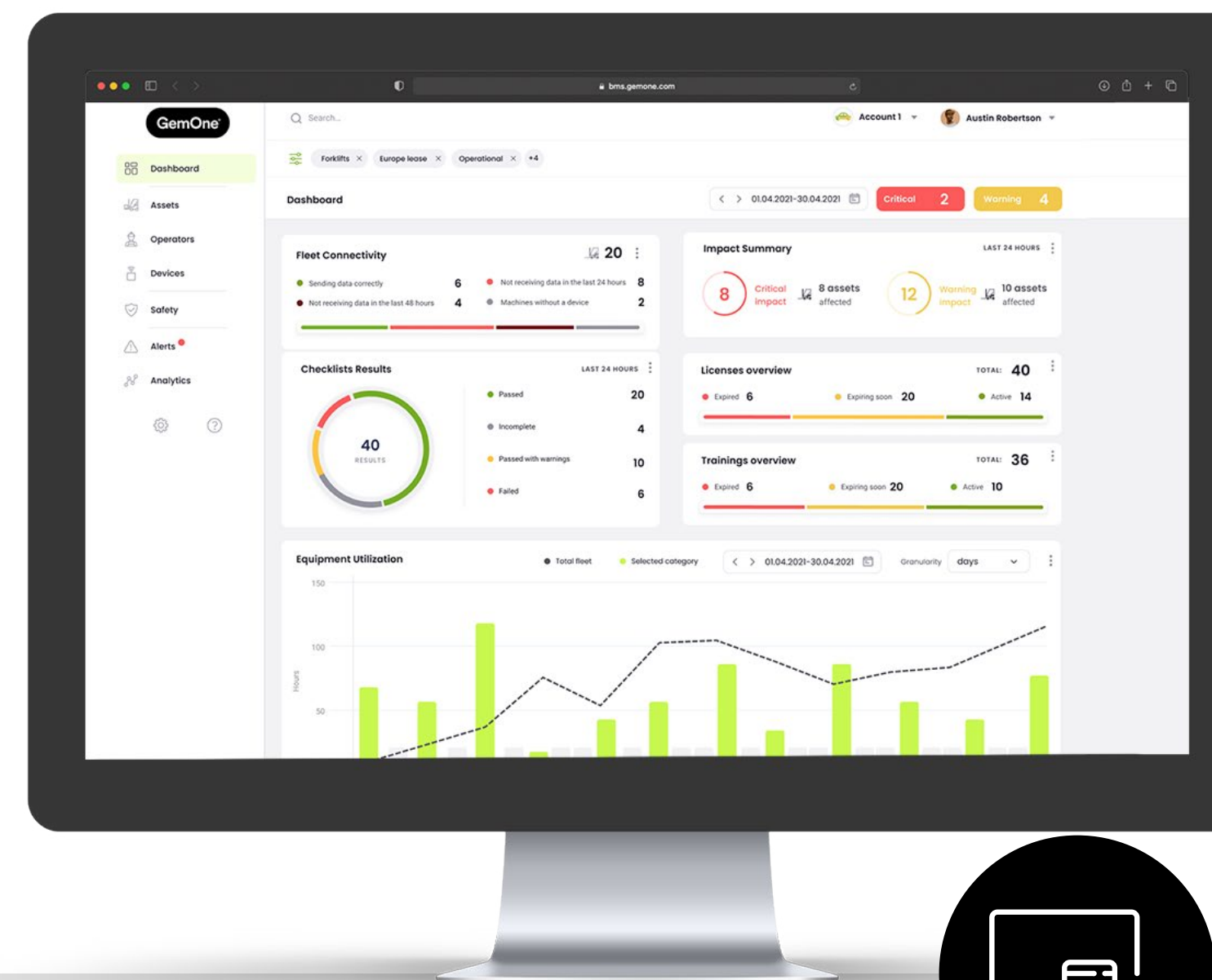
4.4. ERP system integrations



# 4.1 GemOne Cloud

## One single source of truth

*See all the data from your fleet in an online GemOne Cloud platform.*



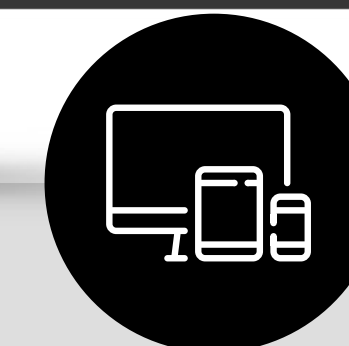
### Real-time

Monitor your machines as events actually happen



### Actionable Insights

Get valuable fleet insights that move your business forward



### Any device

Monitor your fleet anywhere, at any time



### Always on

When trackers are installed, data is being collected



### Multi-asset

Data from any make or model in your fleet, in one place





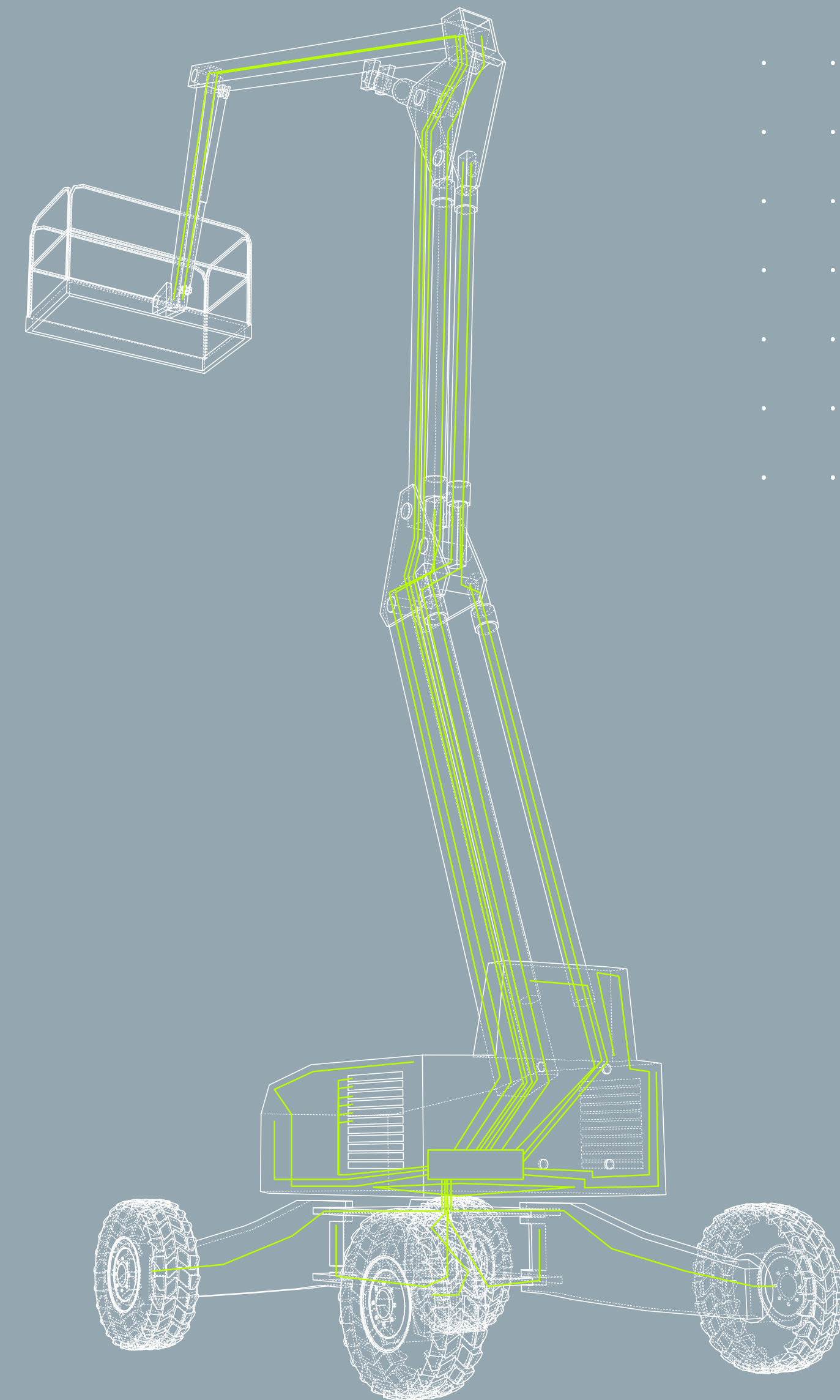
## 4.2 CAN bus data services

### More data for optimal fleet management

Capturing CAN bus data enables you to remotely monitor the exact conditions of your machines.

The CAN (or Controller Area Network) bus is a machine's “nervous system”—the network which enables different parts of the machine to communicate with one another.

CAN bus data dramatically increases service levels and reduces the amount of time wasted by technicians and support staff in identifying and resolving issues throughout your fleet.



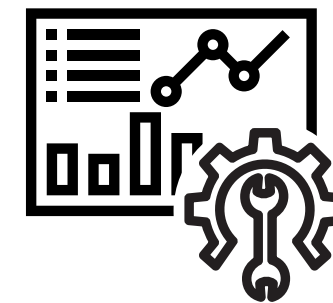
# CAN bus data services

The benefits of CAN bus data for fleet managers are:



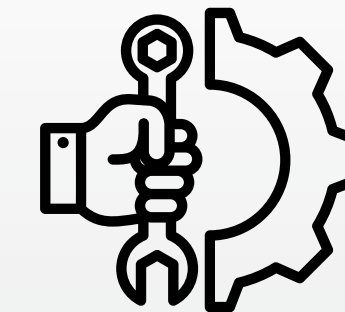
## Real-time operational data for better fleet management

There is a huge amount of information available from the CAN bus, including the exact values of machine usage in operational hours.



## Accurate machine data for optimal servicing and maintenance

With live error codes and important technical data such as voltage, oil pressure, temperature, engine RPM, and fuel levels, fleet managers and technicians can diagnose issues remotely and better engage in predictive and prescriptive maintenance.



## Easy installation for quick set up

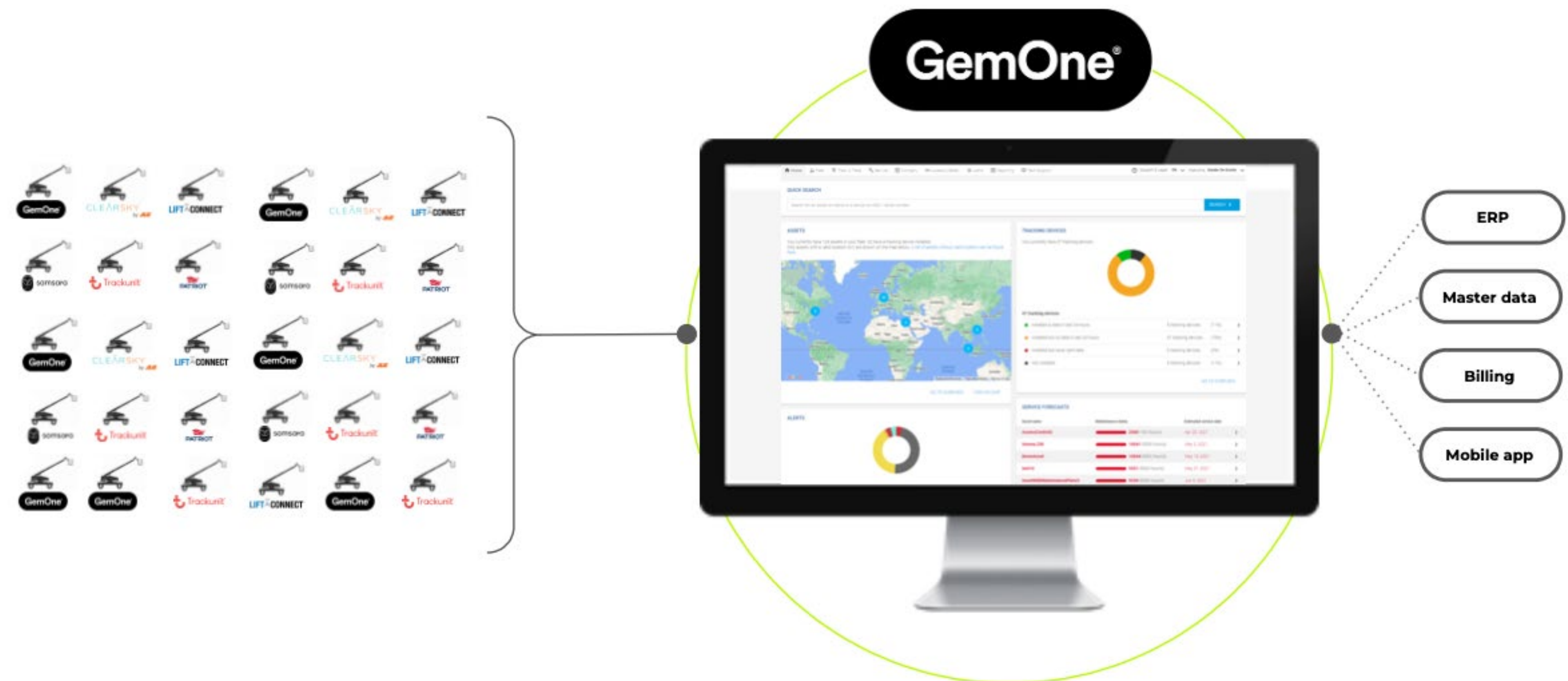
It's plug and play. You can access the CAN bus data from your machines with a CAN-enabled GemOne tracker.



## 4.3 OEM device integration

**Consolidate all your telematics data into one single platform.**

GemOne can be your only telematics platform, consolidating data from OEMs, third party telematics providers, and GemOne trackers.



## 4.4 ERP system integrations

### Consolidate all your business data and insights

We integrate our telematics solution into your existing IT systems

- > ERP Fleet Data
- > Service planning
- > Rental software
- > Driver applications
- > Billing systems





# ERP system integrations



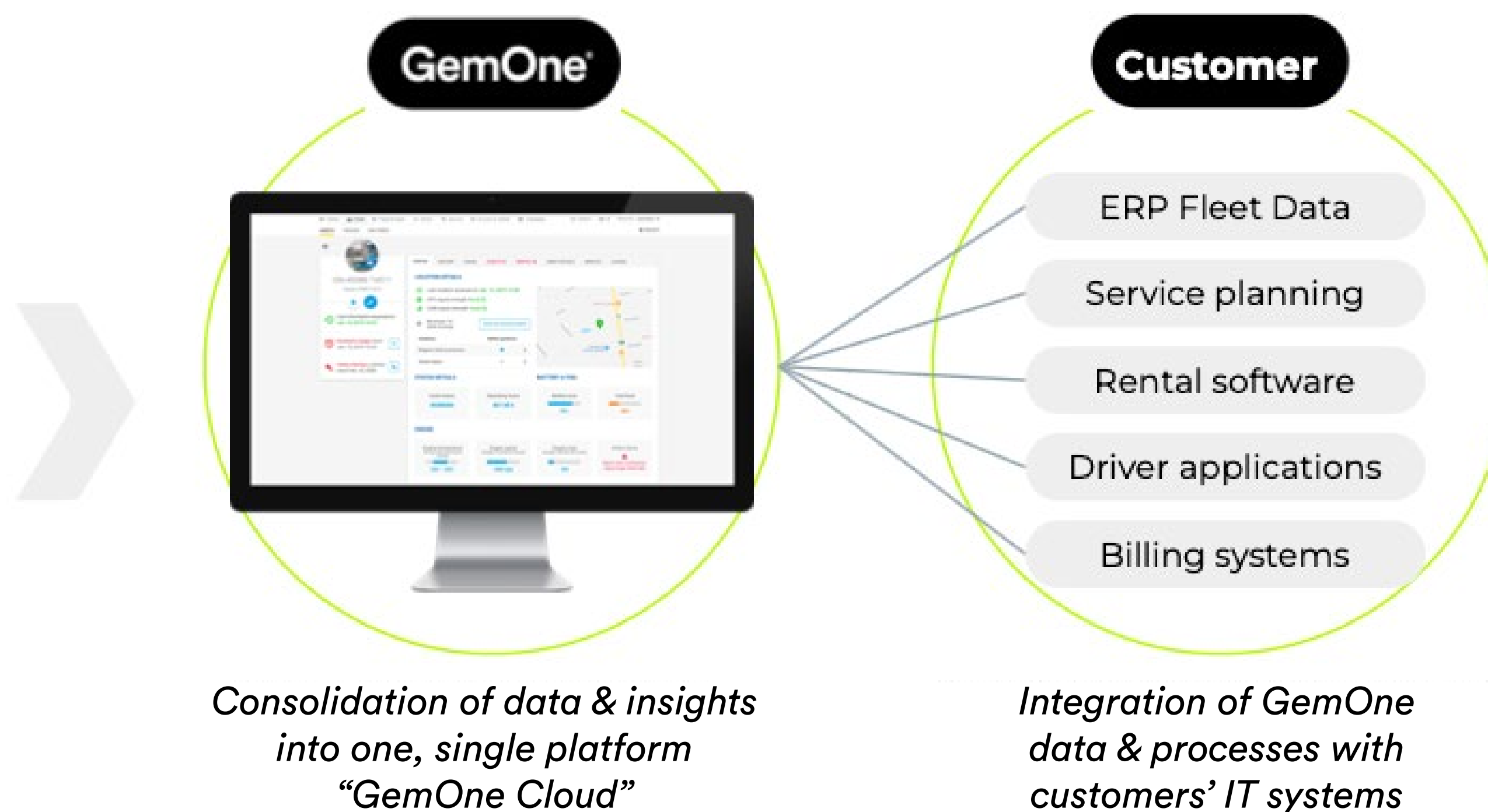
**Supported or Done-for-you.**  
We enable your IT team or do the integration for you



**Consolidation into one single GemOne Cloud platform**  
We provide high performing APIs to get relevant data into your systems and automate fleet synchronisation



**GemOne and your IT systems**  
We have experience with many systems and can replicate our approach for new systems





# Contact us:

For more information on any of our new products or services, don't hesitate to reach out to us.

Request a demo:

[www.gemone.com/demo](http://www.gemone.com/demo)

Contact us now:

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Americas: [sales@gemone.com](mailto:sales@gemone.com)

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