

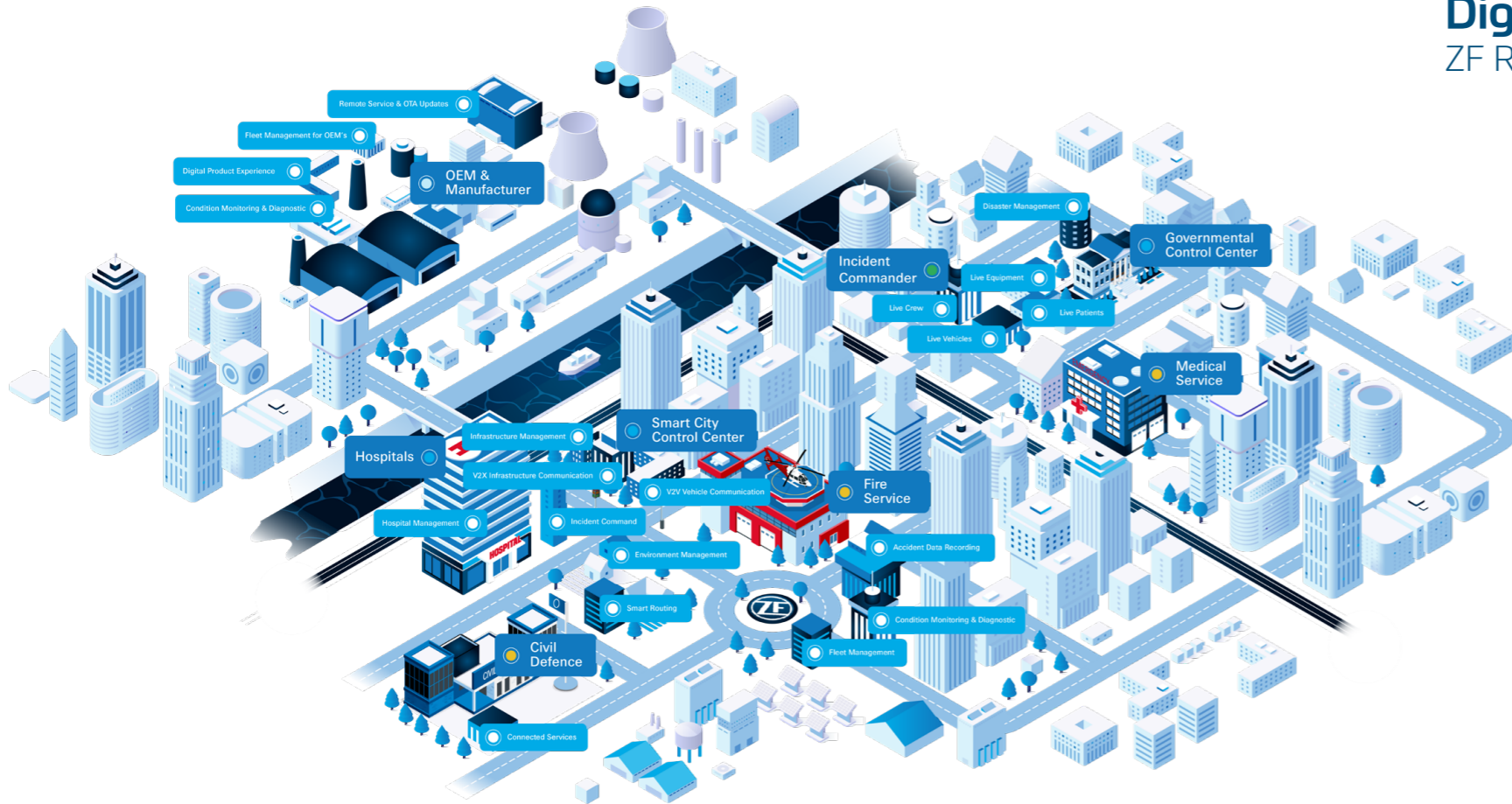
# ZF Rescue Connect

Digital solutions for emergency services



# Digital Solutions for Emergency Services

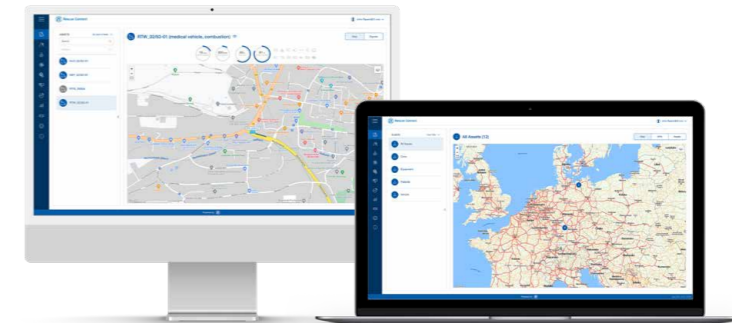
## ZF Rescue Connect



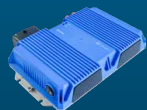
ZF Rescue Connect networks and digitizes all emergency and rescue services in Europe with the latest connectivity solutions. This product connects data from all the rescue services like fire departments, ambulance or other emergency organizations to support emergency management and decision-makers not only in dealing with everyday tasks, but also in the event of large-scale and mass-casualty incidents.

For the first time, vehicles, equipment and people are all connected centrally.

Our products are specially designed for manufacturers of emergency vehicles, suppliers of rescue equipment and providers of operation-specific software. In addition, we offer manufacturer-independent solutions for organizations with security tasks as well as for regional and national authorities.



ZF Rescue Connect  
Vehicle  
Connectivity



ZF Rescue Connect  
Portal



ZF Rescue Connect  
Cloud



3rd Party  
Cloud

ZF Rescue Connect  
Equipment  
Connectivity



ZF Rescue Connect  
Crew  
Connectivity



ZF Rescue Connect  
Patient  
Connectivity



# Intelligently Networked in Rescue Operations Ecosystem

## One connected ecosystem for emergency services in Europe

With Rescue Connect, ZF supports the vision of a networked ecosystem for emergency services in Europe. The connectivity solutions for vehicles, equipment and people are networked via a European cloud platform that ZF operates together with other renowned industry partners, such as MP-BOS and Eurocommand, for the rescue organizations. All data on accident victims, the rescue forces deployed, the rescue vehicles and the rescue equipment are collected here and can be retrieved from the operations center via a user interface.

## Our customer groups



OEM & Manufacturer

Unique software solutions for OEM & Manufacturer of emergency vehicles and rescue equipment. ZF Rescue Connect enables, especially smaller and mid-size companies, to develop their own digital footprints and maximize commercial benefits of technologies.



Fleet & Service Operator

Our software solutions for fleet & service Operators bring benefits to providers of emergency services and end-users. Whether you are a technician of a fleet or an incident commander in the field, we offer our customized solutions to perform your tasks efficiently.



Third Party Users

We solve individual needs of our third party customers in the field of emergency call centers and command structures of governmental or non-governmental authorities with tailored solutions and interfaces.

# Software Portfolio



Web Dashboard



Mobile App



Event Hub

## Software OEM's & Manufacturer

Live View	E-Logbook	Remote	Custom
Vehicle Diagnostics	Vehicle Events	Analytics	Live Streaming
Efficiency	V2I	V2V	

## Software Fleet & Service Operator

Live View	E-Logbook	Efficiency	Analytics
Vehicle Diagnostics	Vehicle Events	Live Streaming	Custom
Asset	Search Area	V2I	V2V
Mass Casualties	Routing	Dispatcher	Incidents

## Software Private & Governmental Institutions

Live View	Analytics	Custom	Live Streaming
Search Area	Incidents	Mass Casualties	

Available In planning

# Software Portfolio

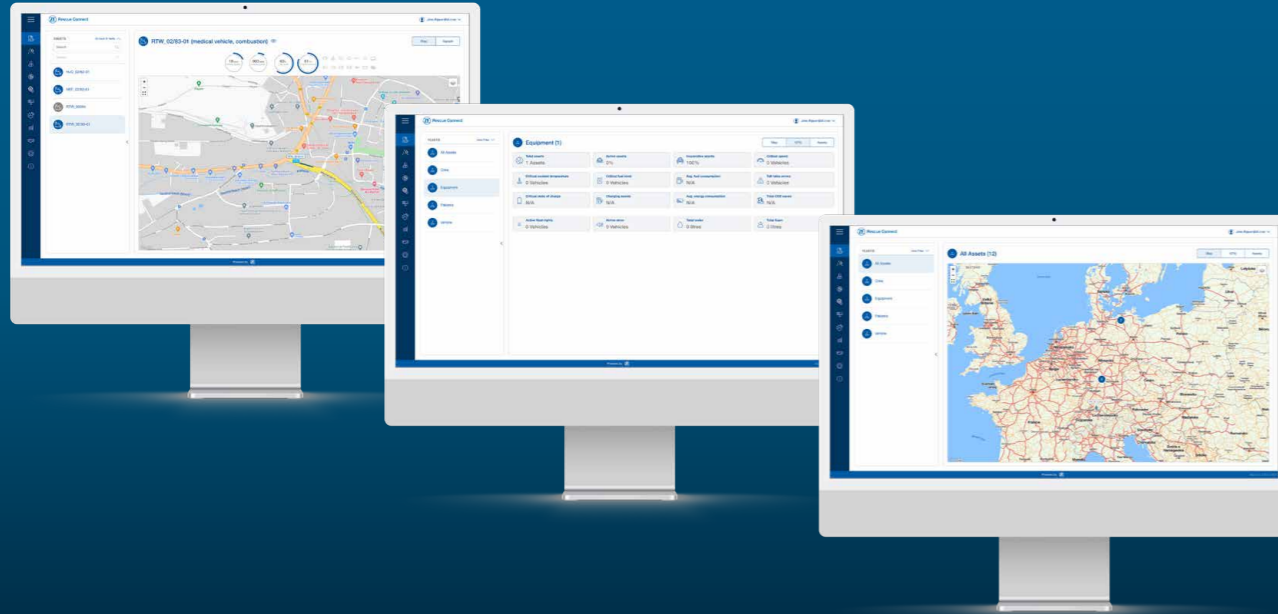
The right software solution for the right customer

**With intelligent hardware and customer-specific software functions, ZF Rescue Connect connects the world of emergency and rescue services.**

The comprehensive software portfolio combines the collected data from all connected devices, people and vehicles in a web-based user interface. Comprehensive functions display the information for the operational management in real-time and thus facilitate well-founded decision-making in accordance with the current situation. Information such as the live overview of the emergency services and equipment or the condition of the vehicles can be viewed via various apps.

# Software Portfolio

Web Dashboard



# Software Portfolio

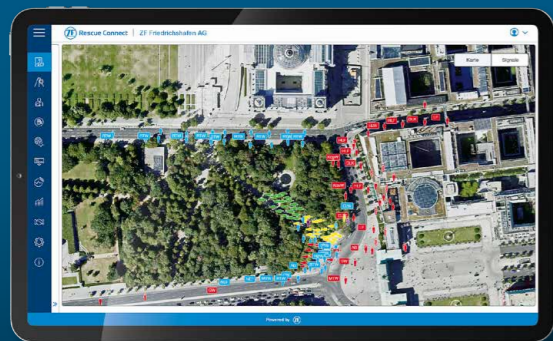
Web Dashboard

## Web-based user interface enables individual evaluations

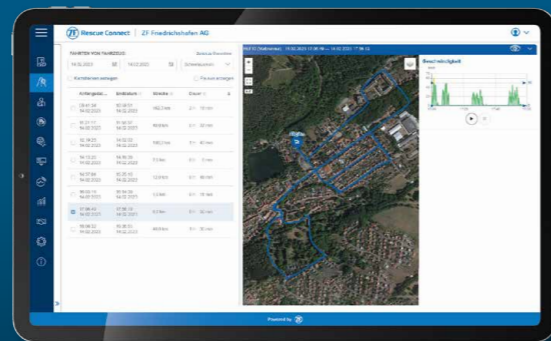
- Comprehensive software solution that displays collected data from all connected devices, people and vehicles
- Web-based user interface with extensive features including Live View, Live Streaming, Asset and many more
- ZF Rescue Connect enables our customers to develop their own digital footprint
- Our software solutions for fleet and service operators and OEMs primarily bring advantages to providers and manufacturers of emergency services, rescue equipment and end users

# Software Portfolio

Live View APP and E-Logbook APP



Live View APP



E-Logbook APP

# Software Portfolio

Live View APP and E-Logbook APP

## Live View APP

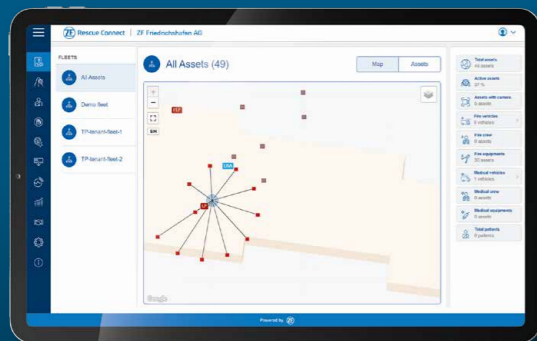
- Digital real-time map connects all vehicles, equipment, emergency services and patients
- Visualization of the resources of fire department, rescue service, civil protection and other organizations
- High-frequency position and status updates
- Detailed view of each resource with numerous additional information such as water tank level or triage category
- Numerous filter functions via quick selection buttons
- Various digital maps and character functions

## E-Logbook APP

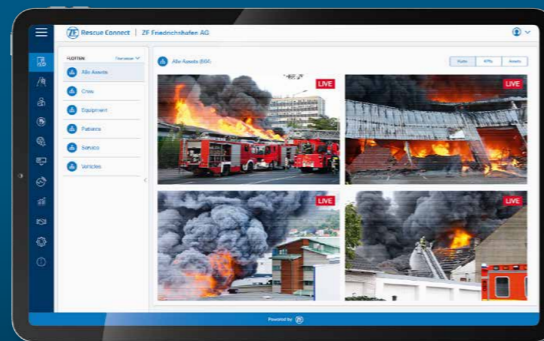
- Digital logbook for recording trips traveled
- Recording and documentation of all trips and brakes of your fleet
- Visualization of travel profiles with useful graphics
- Detailed view of each trip with numerous additional information such as the use of special rights
- Easy selection and filtering of individual trips
- Various digital cards and filter functions

# Software Portfolio

Asset APP and Live Streaming APP



Asset APP



Live Streaming APP

# Software Portfolio

Asset APP and Live Streaming APP

## Asset APP

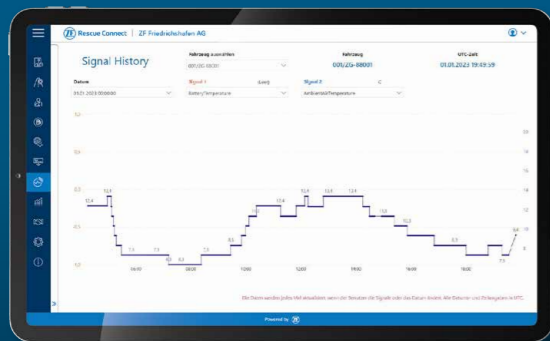
- Real-time position of operation equipment like roll-off and roll containers, trailers, units, boats, etc.
- Digital monitoring and tracking of valuable equipment
- Equipment identification, localization and monitoring
- Driving and motion profiles
- Display of vehicle-specific load
- Measurement of operating hours

## Live Streaming APP

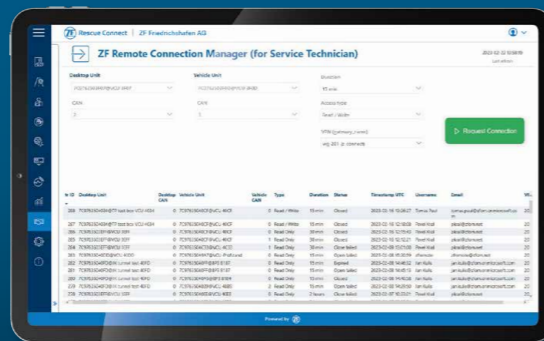
- Live broadcast of video streams from emergency vehicles and the surrounding area
- Ad-hock live broadcasting of multiple cameras simultaneously
- Video and audio transmission
- Compatible with most video, action, smartphone, tablet and drone cameras
- Stream up to three video signals in parallel
- Transfers from the interior and up to 100m around the vehicle possible
- Latencies > 1 sec
- Extensive video dashboard

# Software Portfolio

Analytics APP and Remote APP



Analytics APP



Remote APP

# Software-Portfolio

Analytics APP und Remote APP

## Analytics APP

- Development and visualization of customer-specific analyses, functions and reports
- Individual graphics and visualizations
- Implementation of customer-specific software and hardware solutions
- Complete white label solutions

## Remote APP

- Powerful remote access to vehicles and equipment for maintenance and diagnosis
- Real-time access to the vehicle's CAN communication
- Read and write up to 4x CAN in parallel
- Use of existing customer software without additional adjustments
- Secured and encrypted connection
- Also available as a mobile solution without vehicle installation



# Hardware Portfolio



## ZF Rescue Connect Ecosystem

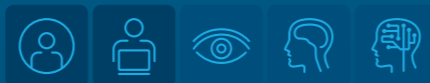
### Hardware & Cloud Vehicle Connectivity



### Hardware & Cloud Equipment Connectivity



### Hardware & Cloud People Connectivity



ZF  
VehicleTAG



ZF  
OBD Unit



ZF  
VCU Pro



ZF  
ProConnect



ZF  
AssetTAG



ZF HeavyDuty  
TAG



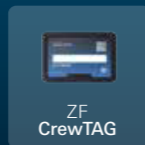
ZF Equipment  
TAG



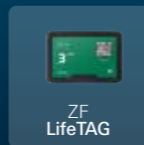
ZF Equipment  
Unit



ZF  
BatteryTAG



ZF  
CrewTAG



ZF  
LifeTAG

# Hardware Portfolio

The right connectivity solution for the right use-case

The comprehensive hardware portfolio offers manufacturers, fleets and emergency services a suitable connectivity solution for every application. Small electronic transmitters and receivers connect people, vehicles and devices to the cloud via mobile communications. Rescue personnel involved in the operation carry their personal ZF CrewTAG with them so that they are visible on a digital map during the entire operation. The accident victims each receive a ZF LifeTAG from the first arriving rescuers until they are safely cared for. The emergency vehicles and important equipment are equipped with corresponding on-board units.

ZF offers the solutions either for the original equipment of vehicles and rescue equipment or as a manufacturer-independent retrofit solution. Solutions from other providers can also be integrated into the cloud via standardized communication interfaces.

# Next Generation Mobility for Rescue Operations



Digitalization and  
Software



Electric  
Mobility



Autonomous  
Driving



Vehicle Motion  
Control



Integrated  
Safety





**ZF Group**

ZF Friedrichshafen AG  
88046 Friedrichshafen  
Germany

Phone +49 7541 77-0

Fax +49 7541 77-908000

[www.zf.com/rescue-connect](http://www.zf.com/rescue-connect)

[rescue-connect@zf.com](mailto:rescue-connect@zf.com)