# SIGMA
## EVOLVE DIGITALIZATION

# Reference report

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## About SIGMA

As a renowned system house group, the SIGMA Group acts as a system integrator and partner of renowned providers in the IT sector. The more than 80 employees of the group form a competent team at the locations Chemnitz and Dresden. With know-how, competence and more than 30 years of experience we offer our customers reliable and powerful IT solutions.

## About our AutoID and RFID solutions

AutoID and RFID solutions for production, logistics and supply chain. Our customers appreciate us as competent, innovative partner, to accompany them from the initial problem analysis until the goal with commitment. Many years of project experience of our employees form the foundation for effective Auto-ID and RFID solutions for production, logistics and supply chain.

## About GRAIDWARE®

The AutoID middleware GRAIDWARE® is an intelligent abstraction layer for different hardware components and business applications. Work tools, production steps and AutoID data can be identified, monitored, controlled and configured.

## Über den Kunden

HOPPECKE ist einer der weltweit führenden Anbieter im Bereich Energiespeicherlösungen und der größte europäische Hersteller von Industriebatterien in privater Hand.

## Successful digitalization of the battery controller configuration with individual Android app



🌐 **www.hoppecke.com**

### Challenge: Manual configuration with a high risk of errors

HOPPECKE is known worldwide for its high-performance energy storage solutions and is the largest European manufacturer of privately owned industrial batteries. With the premium battery controller Trak Collect 2.0, the company is setting new standards: it is the first measurement, evaluation and communication unit for lead-acid batteries that displays the "State of Usage" and "State of Readiness" in real time.

Until now, commissioning the controller was a challenge: each controller had to be configured manually according to the order data stored in SAP - a process that was not only time-consuming, but also a potential source of errors.

### Solution: A smart app as the key to efficiency

The aim was to develop a customized Android application that automates the configuration and thus intelligently combines SAP, Bluetooth communication and the Trak Collect 2.0. The app was individually tailored to the customer's requirements and the hardware used.

With the new solution, configuration data originating directly from SAP can be scanned as a QR code and transferred to the controller via Bluetooth - without any manual input.

### Result: Sources of error eliminated - efficiency improved

The new app has created an end-to-end digital process that
• eliminates manual sources of error
• significantly accelerates commissioning
• and ensures full integration with SAP and the hardware without media disruptions.
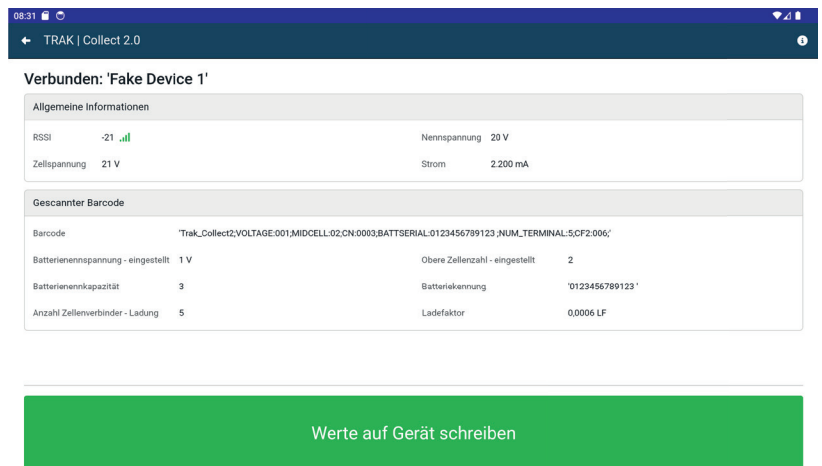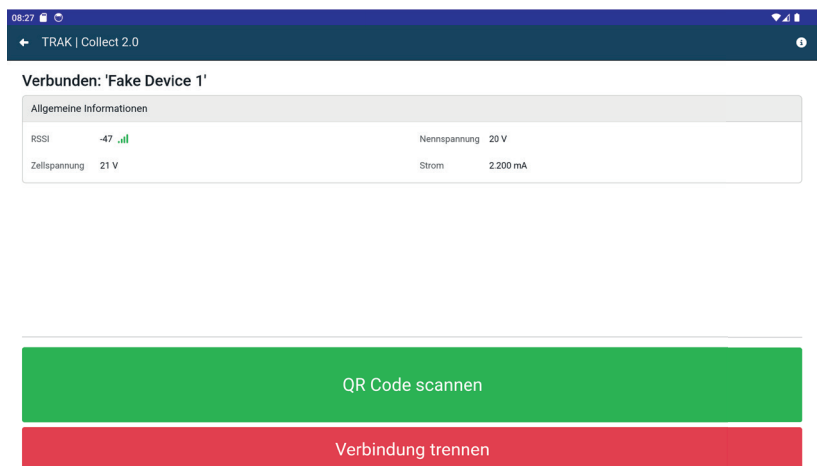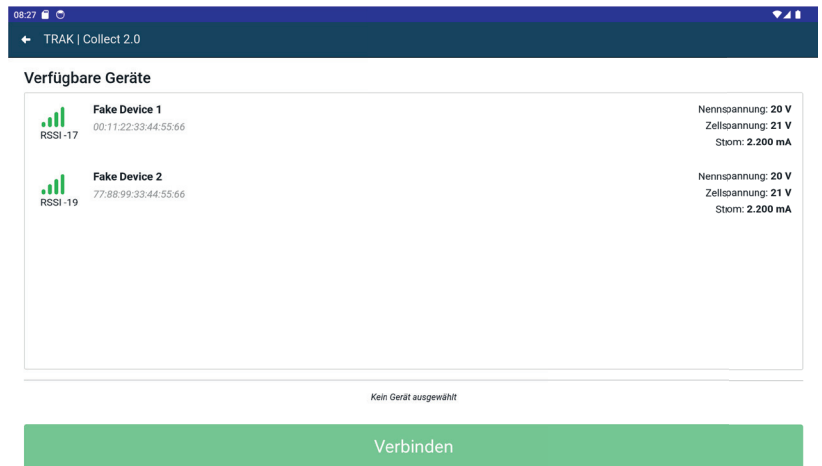
*Bild: HOPPECKE Batterien GmbH*

## How it works: intuitive, mobile, error-free

**1. start the configuration process** via the app - all available battery controllers in the vicinity are displayed (incl. name, hardware address, reception strength, current measured values) and are ready for connection.

**2. visual feedback on the device** - as an active Bluetooth connection is otherwise only indicated by a small, hard-to-read symbol on the controller, the app automatically changes the color of the controller's LED display every two seconds during the connection. This means that the correct controller can be identified at a glance.



**3. scan the QR code** - the code generated by the SAP system contains all configuration data.



**4. check the data and write it to the controller** - done.



# *This is what the customer says...*

*„The technical refinements and the exploitation of the digitization possibilities only impress the customer if the end result is coherent for the application. This is guaranteed by communication that is technically unambiguous but still clearly understandable for all "non-IT experts" involved. The awareness that the customer still finds it difficult to accurately formulate the requirements for the degree of digitization and the associated interface description, especially for the production areas, made the difference when working with SIGMA. SIGMA masters this balancing act: making "programming language" sound understandable for everyone else. This eliminates tedious rework, unnecessary changes and lengthy discussions. Hoppecke has received an app that works reliably, is easy to use for all colleagues and has measurably improved work in production."*

*Andreas Kaporin, Head of Engineering, HOPPECKE Batterien GmbH & Co. KG*