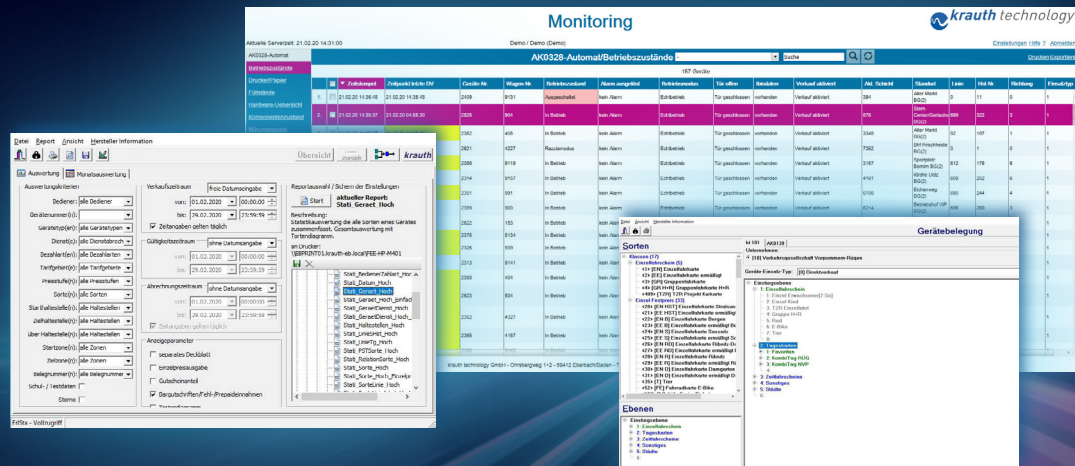# krauth *technology*®

Our services at a glance!
Software expertise from a single source

- Individual software solutions to support sales and business processes
- Analysis and mapping of fares and network data or structures of all kinds
- Support and creation of modern and efficient operating guides
- Design and development of customer-specific import and export interfaces
- Generation of evaluation and reporting tools
- Installation and configuration of standard and individual solutions
- Creation of dynamic ticket layouts
- Development of import processes for the transfer of master data
- System and device configuration
- Project planning and development of complete proprietary eTicketing solutions including backend and frontend as well as blocking and registration processes
- Building device landscapes
- VDV-KA solution for devices and BackOffice including connection to existing infrastructures

- Providing sales and control technology with fare data and sales logic using PKM - standard
- Migration of legacy systems
- Adaptation to external systems or background software from other manufacturers
- Consulting and support for the HUSST standard interface
- Integration of running IT landscapes
- Consulting on interfaces in public transport
- Hosting
- Providing individual licensing models
- Content manager for the creation of individual dynamic advertisements (advertising content, videos, timetable information, operational disturbances, etc.)
- Device-independent solution for selling DB long-distance products
- Deposit solutions for transport charges and passenger attendants
- Cost-effective implementation of video telephony and remote control solutions

Take advantage of our software expertise! We advise you extensively and individually.
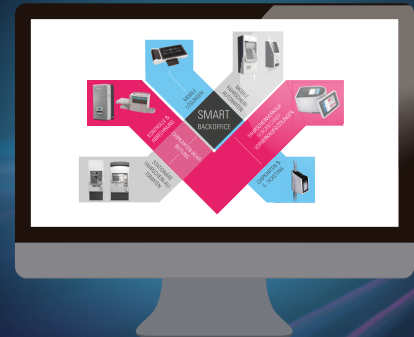**www.krauth-technology.de/en/solutions**

All systems, one software package

It connects everything: our SMART

All systems, one software package for managing and administering the complete krauth technology portfolio.

The back-office software is the central management system for the use of mobile and stationary components - the basis for vehicle operation, sales and control of your transport operations.

SMART functional advantages

- Mapping of central management system for operations, sales and controlling
- Scalable according to company requirements
- Available in different modules
- Graphic user guidance
- Integration of different sales systems
- Stable client-server database (open source)
- Easy extensibility due to a modular concept
- Ergonomic design
- Import / export interfaces through neutral formats (CSV, X10, MS-Access, etc.)
- Multi-client capable - individual access rights for single clients

Overview of SMART system modules

Standard modules:

- Integration interface
- User administration
- Data management (online data transfer from and to the devices or offline via USB)
- Database administration

Add-on modules:

- Fare editor
- Network editor
- Import modules (for network, fares, driver data, etc.)
- Driver & operator management
- Parameter module
- Operating sequence editor
- Ticket layout editor
- Barcode registration & tracking
- Incident detection & evaluation
- Driver account / cash module
- Payment matching
- Device management
- Tracking of shifts and duty completion
- Paper roll management
- Statistic & accounting module
- Exports to external systems (ERP)
- Simulator for vending machines
- Voucher server

krauth *technology*®

Complete overview of all systems

Simple, fast and self-explanatory

With the state of the art monitoring solution, you can always monitor your devices in real time.

With the help of the individually configurable views and messages, you have full overview of:

✔	✔	✔	✔	✔
Devices/ component status	State of resources	Versions	Inventory	Incidents

- Web application with optimized display for mobile devices
- Secure access to the management interface
- Intuitive operation
- Overview of the operating and resource status of all devices (also of third-party devices)
- Real-time information about the status of the system
- Economic resource planning and deployment control of service staff
- Warning and service information to optimize maintenance and checkout operations
- Generation and dispatch of status reports
- Scheduled transmission of service orders
- Dispatch of personalised messages by e-mail
- Administration of user groups
- Remote control of the devices for service functionalities or passenger assistance
- Map view of vending machine locations

Your test option for the workplace
The perfect complement for the operation of ticket vending machines

With the vending machine simulator, you can easily check changes in operating procedures, ticket layouts and fares in a real application on your own workstation. The simulator contains the software and the parameters of the „real" vending machine and maps the operating sequences directly into a virtual interface.

Further special features:

- Virtual ticket printing including the history of issued tickets
- Simulation of the complete payment process
- Generation of shift and accounting data
- Data supply and connection are identical to the „real" terminals
- Full integration into the krauth technology monitoring system

Yes We Can! Integrating electronic fares ...
...according to PCM standard for public transport

Do you want to map and process public transport fares and processes based on the device-independent PCM standard?

The use of product and control modules (PKM) offers a number of advantages over today's methods of providing fares. We have already implemented the PKM specification and are happy to help you with this.

The implementation of the PKM standard offers:

- Standardized and data-driven configuration of sales and control technology
- Standardized description of fares (fare data and fare logic)
- Complete and consistent data storage in one place (with auditable responsibilities)
- Creation of fare-neutral device software with less testing effort
- Minimized adaptation work on the device side