

POIS – The FELA PIS passenger information system

20.12.2022



POIS Software-module

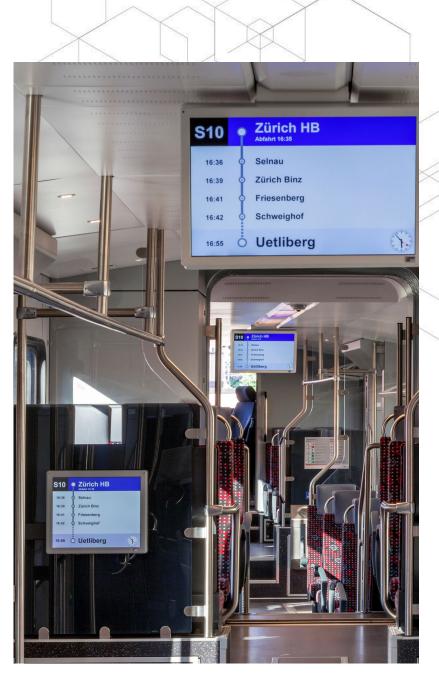
POIS Software-module

POIScentral

- Control center and backend
- Interface to VDV standard, timetables and operational data import, real time data hub

POISmobile

- Control of the components in the vehicle
- Transmission of the video and audio content to the displays, audio systems, call stations and HMI
- Interfaces and software for mixed and multiple traction





Web based control center

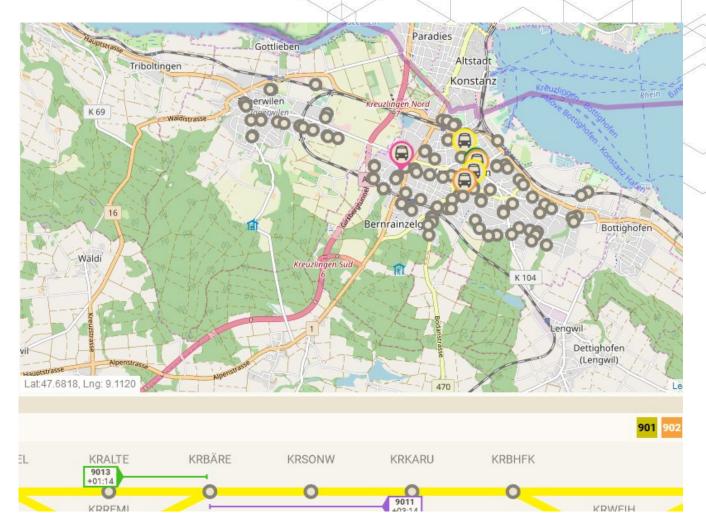
- Central control of all systems and components for passenger information
- Visualization of real-time information
- Intuitive user concept
- Modular, scalable and platform independent





Real-time visualization control center

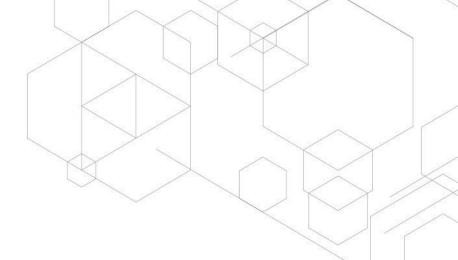
- Map display
- Vehicle table
- Line variants
- Short messages about the vehicle
- Data analysis and statistics
- Fault management PIS





More features

- Connection to the FELA data hub
- Interfaces to VDV 452, 453 -ANS, -DFI, -VIS, 454 AUS und REF-AUS
- Rapid implementation of customer-specific extensions
- Coordinated customization for VDV 452 interface
- Over the Air Updates



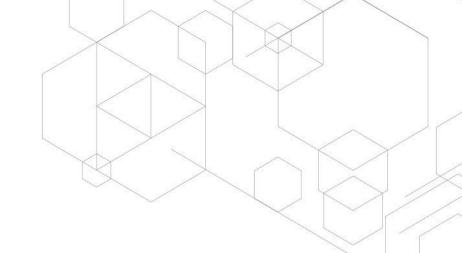




POISmobile visualization

Information for the train driver

- Representation of the current stops
- Make announcements
- Display of the camera images in the event of an alarm
- Texts of the outdoor advertisements
- Audio settings
- Notifications from the control center
- Display front/rear camera images
- Setup of multiple traction





POISmobile visualization

Audio communication for the train driver

- Wagon specific passenger announcements
- Calls from/to the control center
- Emergency call communication to the intercoms
- Video activation in the event of an SOS
- Cab to cab communication





POISmobile visualization

Information for the passenger

- V580 compliant
- Many design options
- Web based and flexibel











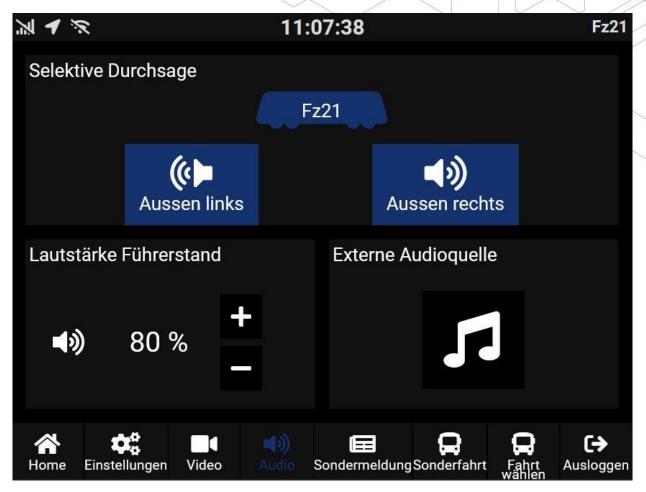




POISmobile

Audio information for the passenger

- Automatic announcements of stops and special points
- Indoors or outdoor output
- Manual announcements by the train driver to the passengers
- Voice of the control center in the passenger compartment
- Text To Speech functions







POIS Vehicle components

What's on the vehicle...



PAN-Audiosystem

Fahrgastsprechstellen

Telefonbox

TRRR

Fahrgastinformation

HMI-Bedienpanel
TFT-Monitore

Virtualisierungsrechner

Seitenanzeiger

Frontanzeiger

- Telefonserver
- digitale Audioverstärker
- Lokführer-Mikrofon
 Lautsprecher
- Lautsprecher



CCTV-System

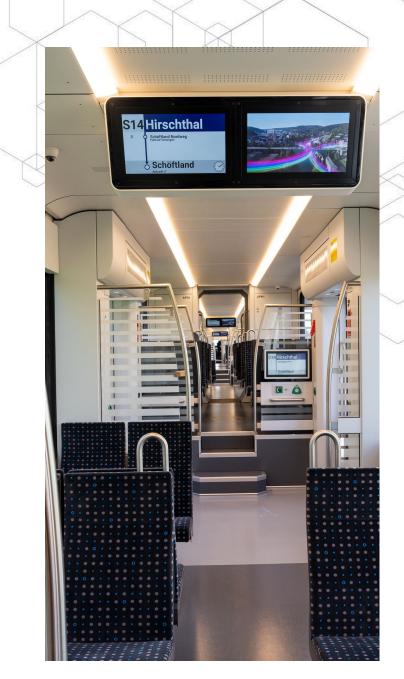
Videorekorder





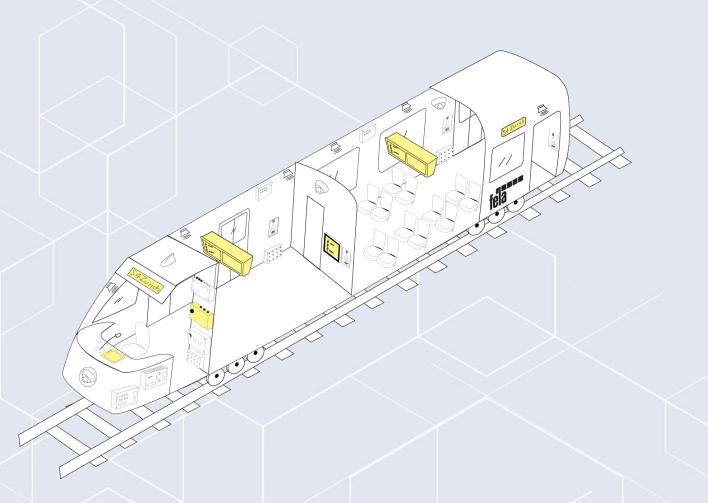
PIS components

- Interior displays as TFT monitors and LED variants
- Front and side indicators in LED or TFT technology
- Voice stations for calls for help and emergency calls
- Audio output systems with digital amplifiers
- Telephone box
- HMI control panel in the train driver's cab
- Video surveillance with recording and live stream
- Network components and routers









PIS visualization

TFT monitors

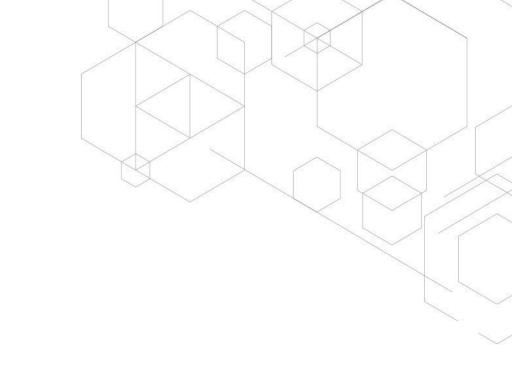
- High-quality TFT monitors
- Customizable to customer requirements
- Wall or ceiling mounting
- Light weight
- DIN EN50155
- Various models and screen diagonals
- Long service life and lifecycle management





LED matrix exterior displays

- Optimized for outdoor use on the front and side
- Ultra bright LEDs
- Optimal readability
- In the variants white, amber or multi color
- Very long lifespan
- Compact design
- Implemented dimming function
- TFT variants in preparation



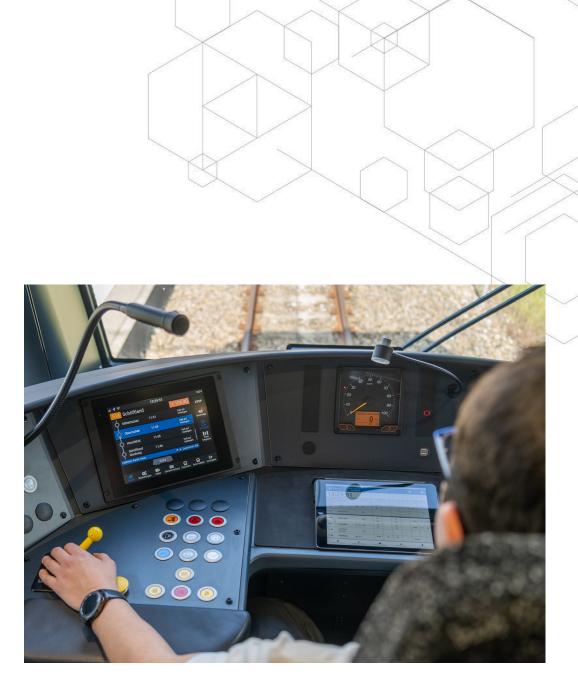




HMI operating panel

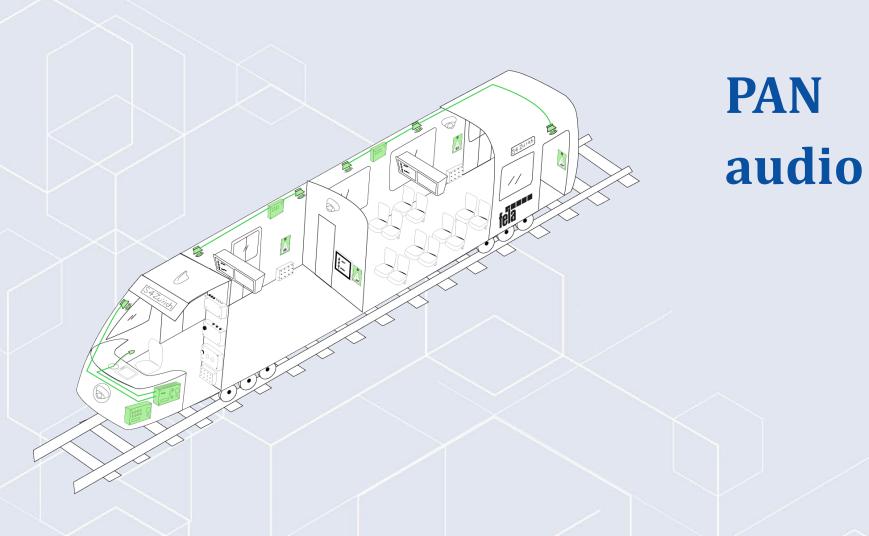
POISmobile Operation from the driver's cab

- Suitable for railways according to EN50155
- Non-glare display
- Touch operation
- Robust construction
- Easy construction
- Soft keys









Intercoms - RTE 40100

Emergency and help call intercoms

- High audio quality
- Robust and vandal-proof
- Low assembly effort
- IP interface
- Full duplex mode
- EN50155 EN45545
- Variants in horizontal and vertical possible





ACA 2201 digital amplifier

Communication in the vehicle and to the control center

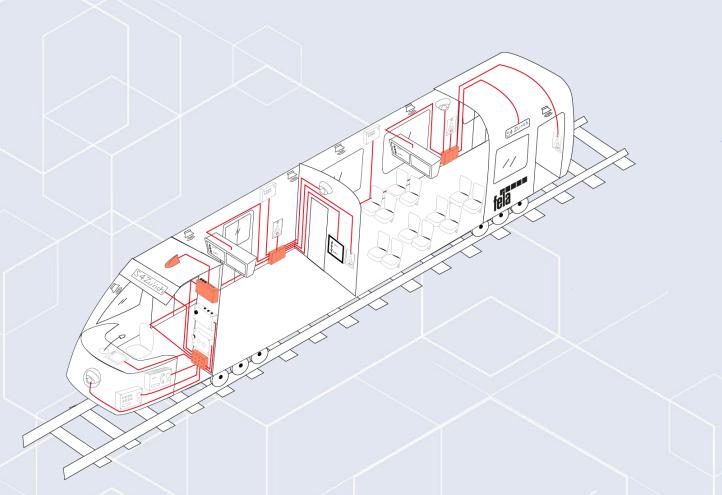
- Digital multi-channel amplifier
- Digital transmission with modern codecs
- Announcements in high audio quality
- Intelligent control of PIS through POISmobile
- Flexible to integrate and scalable
- Announcements, driver's cab communication and engine driver with control center
- Fallback through UIC interface









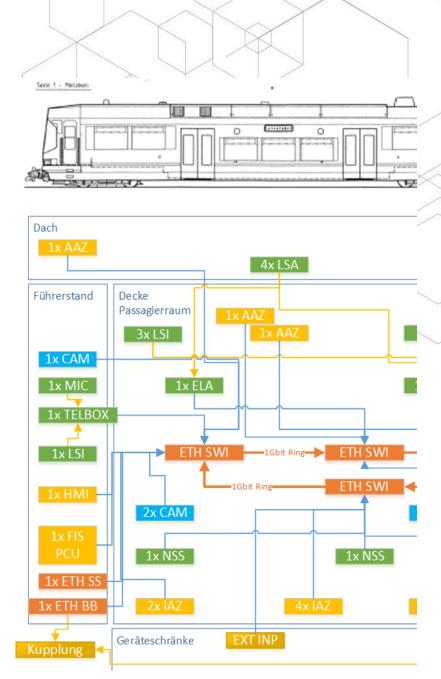


ZUKO the network

The vehicle network

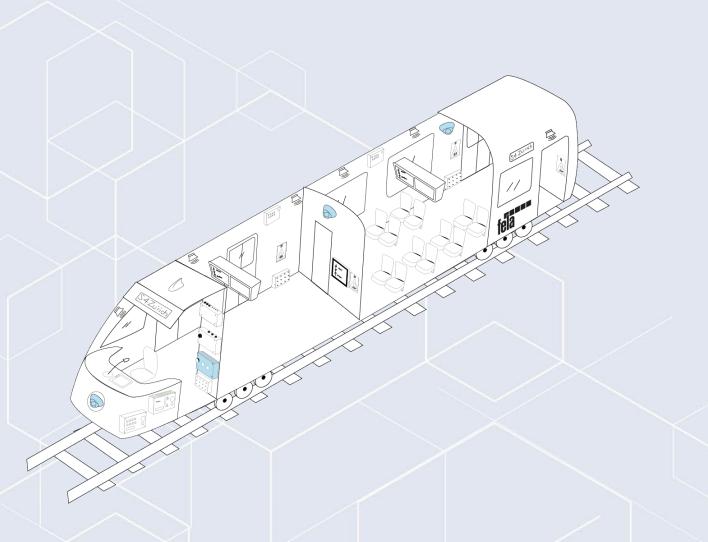
Switches and routers

- Network cabling in the vehicle
- Redundant
- Across wagons
- M12 with PoE
- Router for train-land connection
- Coupling modules for mixed and multiple traction
- Easy integration of additional systems such as APC, advertising displays, passenger wifi







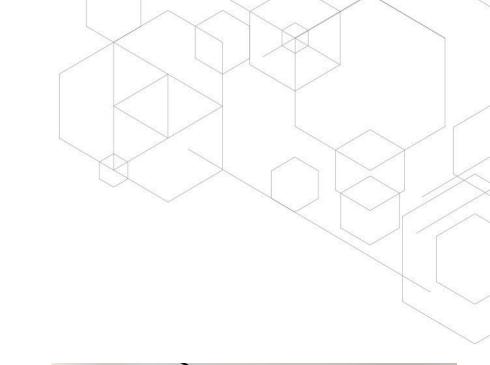


CCTV video system

CCTV video surveillance

Safety for passengers

- Integration of approved camera systems
- Illumination study
- EN62676-4 2015
- Event-triggered or individual control
- Zoom function
- Automatic activation in case of emergency
- Indoor and outdoor surveillance
- Legally secure storage of data for 72 hours









FELA services

Planning and implementation

FELA services from the idea to acceptance

- Planning and concept creation
- Construction and operation of the test facilities
- Commissioning on site together with the customer
- Engineering of technical documentation
- Training of customers in the areas of installation and configuration
- Support online on the phone on site
- Refit concepts, planning and implementation





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