



Project Property

Verkehrsbetriebe Luzern AG AVLC renewal (from preceding system LIO Classic)

“Verkehrsbetriebe Luzern AG brings passengers forward. Throughout the whole Lucerne region, we bring people together who want to be together. We have an obligation to provide local public transport. We see ourselves as a public service company, offering transport services and market responsibility from a single source.”

Beat Nater, Works Manager, Verkehrsbetriebe Luzern AG

The approx. 50 stop signs SmartInfo in Lucerne are part of the automatic vehicle location and control system (AVLC) type VICOS-LIO which is connected to an analogue radio system. The buses in Lucerne also have latest-generation on-board computers (IBISplus). The system was projected and supplied in four phases. Verkehrsbetriebe Luzern AG (vbl AG) is now in a position to offer far more protected transfers.

The functionalities

- _ Automatic vehicle location and control system VICOS-LIO
- _ Latest generation of on-board computers IBISplus
- _ GPS based positioning
- _ Passenger information system (SmartInfo)
- _ VICOS-LIO-Data data supply
- _ Loading the vehicles with software and data using WLAN (wireless LAN)
- _ Geographic information system (GIS)

The system at a glance

Control centre

- _ 3 dispatcher workplaces

Radio system

- _ Analogue quasi synchronous radio system; 3 voice channels, 1 data channel, 2 base stations

Vehicles

- _ 140 buses

Dynamic passenger information

- _ 50 SmartInfo signs with acoustic features (one also with a clock), 2 third party DPI signs from IB-Datentechnik, with radio control

Depots

- _ Altogether 2 depots, equipped with WLAN

Third-party components

- _ Planning program DIVA, Moveo; ticket printer S-POS; video multifunctional display by RUF; radio provider: Jöhl & Köferli

Software interfaces

- _ Planning programme DIVA, ISAS, Moveo, Depot Data Management DDM, ticketing system S-POS; SESAM connection loop to delete trips of vehicles, which are not AVLC-equipped, from the displays at the station

Verkehrsbetriebe Luzern AG

Verkehrsbetriebe Luzern AG with a workforce of around 400 employees provides services for 15 communities near Lucerne, carrying nearly 45 million passengers each year. The entire route network covers just about 300 kilometres. Verkehrsbetriebe Luzern operates about 140 buses, serving 300 stops.