

Overview

Bernmobil



165
buses



48
trams

RBS



35
buses



9
trams

Postauto



65
buses

Industry

Tram and Bus operator, Bern,
Switzerland

Challenge

Improve communications across
the network

Solution

Trapeze Intelligent Transport
System (ITS)

Results

- ✓ Enabled Automatic Vehicle Location and Control (AVLC)
- ✓ Provides Smart Real Time Passenger Information (RTPI)
- ✓ Traffic Light Preemption



Background

BERNMOBIL carries 90 million passengers every year with 165 buses and 48 trams. In the Swiss capital, the transport service provider serves more than 200 bus and tram stops on more than 20 routes in the greater Bern area. BERNMOBIL has a workforce of round 720 employees.

Challenge

BERNMOBIL in Switzerland sought an efficient control system to enable capabilities including Automatic Vehicle Location and Control (AVLC), advanced data management and Real Time Passenger Information (RTPI). The end goal was to provide more efficient tools to control centre staff, more visibility across the network and better service to customers.

Solution

The functionalities

- Automatic vehicle location and control system type LIO
- Analogue radio system and GSM/GPRS
- Modern on-board computers IBISplus in mixed operation with IBIS2
- Logical positioning with infrared beacons (urban), GPS-based positioning (region)
- Real time passenger information: SmartInfo stop signs, MFD G2 multifunctional displays
- Timetable information via the Internet
- Advanced data management
- Data supply LIO-Data
- Traffic light preemption
- Software and data loaded to the vehicles using wireless LAN (WLAN)
- Statistics evaluation with ISAS2
- Transfer protection G2The system at a glance



THE SYSTEM AT A GLANCE

Control centre

4 dispatcher workplaces, 1 remote info workplace, 2 statistics workplaces

Radio system

Analogue, Digital (GSM/GPRS) and Hybrid (Analogue respectively GSM/GPRS), 2 voice channels, 2 data channels, 2 base stations, voice radio

Vehicles

Bernmobil: 165 buses, 48 trams

RBS: 35 buses, 9 trams

Postauto: 65 buses

Dynamic passenger information

165 SmartInfo acoustic stop signs, controlled by

analogue radio

160 MFD multifunctional displays

Depots

Altogether 13 (10 equipped with WLAN, 3 with DATIR)

Third-party components

DIVA planning system, Apricot route path display

Software interfaces

DIVA planning system

Introduction of the parity system has clearly simplified the work of the dispatcher in mixed radio traffic. We are also satisfied with the way the new transfer protection G2 has been implemented. It illustrates the great expertise that Trapeze has acquired in this field. ”

Harald Orth, Project Manager Control System,
Bernmobil

Results

- Integration across the network
- Transfer protection
- Increase on-time performance

Trapeze Group

Trapeze Group works with public transport agencies and their communities to develop and deliver smarter, more effective public transport solutions. For more than 25 years we have been Here for the Journey, evolving with our customers around the world to helping them move people from point A to Z, and everywhere in between.

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