Swiss Transport Operators Upgrade Control Systems Basel Public Transport

Overview

BLT

300 vehicles

1,200 employees

9 tram routes

13 bus routes

BVB

160 vehicles

430 employees

4 tram routes

18 bus routes

53 million passengers

Industry

Tram and Bus operators, Basel, Switzerlandoperators, Basel, Switzerland

Challenge

Improve communications across the network

Solution

Trapeze Intelligent Transport System (ITS)

Results

- ✓ Shortest possible comms cycle times
- ✓ System delivers precise data
- ✓ More accurate, modernised stop DPI signs

Background

Basler Verkehrs-Betriebe (BVB) employs over 1200 employees and operates over 300 vehicles. Each year, around 132 million passengers use the 9 tram routes and 13 bus routes.

Baselland Transport AG (BLT) employs over 430 employees and operates 160 vehicles. Each year, around 53 million passengers use the 4 tram routes and 18 bus routes. Both companies also service stops in the neighbouring canton of Solothurn, in Germany and in France. With almost 26 kilometres, route 10 is one of the longest tram routes in Europe.

Challenge

Swiss transport companies BVB and BLT identified the need to modernise their operational control system with a solution that would integrate with their in-house architecture, deliver better information to the public and include the capability to support future developments.

Solution

BVB and BLT selected the Trapeze Intelligent Transport System, acknowledging its integration and future-proof capabilities.

The functionalities

- Automatic vehicle location and control system LIO
- On-board computer IBIS plus G2, MTT/MDT terminals
- SmartInfo G3 stop DPI signs (PACOS-AFI)
- Incident management with ActiveForms+
- Communication processing via TTL PARITy
- Depot Data Management
- Data supply with LIO-Data
- Business Intelligence, statistics with ISAS2
- Disaster recovery system at a second location

THE SYSTEM AT A GLANCE

Control centre
5+2 dispatcher workstations, 17 info workstations
4 data supply and/or statistics workstations
Radio system
Hybrid radio (analogue/GPRS): 4 AVLC voice channels, 1 voice channel for inspectors, 5 data channels
1 radio location for AVLC
Vehicles
100 buses, 130 + 75 trams, 1 service vehicle
Dynamic passenger information
344 SmartInfo DPI signs (334 analogue radios, 10 GPRS)
Depots
4+2 in total, equipped with Wi-Fi
Third-party components
ActiveForms+, DIVA4
UVT passenger counting, video (no AVLC interface)
Software interfaces
DIVA3, VDV452, OLIF G2 for the two data distributors
Bern (DPI/CP) and Baden-Württemberg (SIS/REFSIS)Solution

"BVB have upgraded control centre technology to the latest state of technology. The control centre is now better integrated with various interfaces, making it ready for future further developments."

Arne Schöllhorn, Head of AVLC,
Basler Verkehrs-Betriebe

Results

- Better integration across the network
- Integration and data flow increased across all systems
- Improved communication to drivers
- Increased visibility across the network

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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