Trapeze ™

Trapeze Rail System

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Enabling future railway, tram and metro transport

The worldwide growth in demand for travel and increasing competition between all modes of transport places ever greater demands on rail passenger transport. To meet this challenge, rail passenger businesses must increasingly strive to make better use of their existing and planned resources. Trapeze Rail System assist in achieving these objectives. By drawing on experience, tried and trusted solutions are combined with innovation to meet specific requirements.

With offices throughout
Europe, North America and Asia Pacific...

Trapeze Group – your long-term partner

With a solid financial foundation Trapeze Group has experienced a positive growth trend over the past decade. Trapeze's in-depth industry experience, ongoing investments in product innovation and solid financial foundation demonstrate the company's ongoing commitment to support your organisation for the long-term.

Experience matters

Our team of experienced technology professionals, operational management and support consultants are ready to help design solutions that meet your needs, manage your projects, deliver your systems, and provide your organisation with the training and long term support you require.

A complete solution

Trapeze Rail System is a complete IT tool for rail passenger and rail cargo transport that streamlines and optimises network and timetable planning, roster and resource planning, resource allocation and the day-to-day operations. Combined with Trapeze passenger information, journey planning, ticketing and real time monitoring Trapeze Rail System covers all needs for IT and ITCS in any rail operation. Trapeze Rail System is scalable, from the small rail or light rail operation up to national and international operations, our solution can be modelled to meet the demands. Our system ensures that resources are used efficiently, and that management and planners have an excellent overview of the daily work. This results in cost-efficient solutions for all aspects of your operation.

FUNCTIONS – OVERVIEW

SIMULATION & MODELLING

Train Operations
- Simulate operations (rolling stock, signalling systems, energy)
- Running time calculation
- Identification of conflicts
- Validation of timetables
- Data for cost-benefit calculations

Power Supply Network
- Simulate power supply demands, electrical outages and emergency scenarios
- Assessment of substation locations
- Assessment of supply robustness
- Simulate AC, DC networks & return circuits

Timetables
- Robustness analyser
- Networks capacity optimisation
- Timetable stability
- What-if scenarios

NETWORK & TIMETABLE PLANNING

Network Planning
- Negotiate track access
- Identify available tracks
- Path request management
- Possession request management

Timetable Planning
- Stations, stops and connections
- Unlimited what-if timetables
- Running times
- Conflict detection & validation
- Route planning
- Possession planning

RESOURCE PLANNING

Vehicle Planning
- Interative feedback between vehicle planning and crew planning
- Auto validation
- Capacity and blocking
- Fuel and maintenance
- Vehicle optimisation

Crew Planning
- Interactive feedback between vehicle planning and crew planning
- What-if scenarios and cost calculations
- Employee qualifications
- Crew optimisation

Employee Roster
- Rostering
- Manually and automatic
- Employee assignment
- Roll-out
- Optimisation

OPERATIONS

Vehicle Management
- Vehicle allocation
- Dispatch, incident and change management
- Rolling stock register
- Validation & statistics
- On-board system

Crew Management
- Dispatch, incident and change management
- Staff availability
- Validation and operational warnings
- Operations optimisation
- Employee communication

Asset Management
- Administration of vehicle maintenance
- Fuel management
- Asset configuration
- Materials management rebuild and procurement

Cargo Management
- Planning of ad hoc and fixed route transport
- Customer and contact administration
- Vehicle roster

ADMINISTRATION STATISTICS & ANALYSIS

Wage Calculation
- Automatic calculation of payroll
- Union agreement
- Rules and in-house agreements

Contracts
- Contract management
- Booking and order management

Business Intelligence
- Production calculation
- Operational statistics
- Cost and revenue statistics
- Dashboards

REAL TIME
OPERATIONS/MONITORING

Vehicle Monitoring
- Vehicle monitoring
- Voice and message control
- Automatic vehicle location
- Schedule adherence
- Incident reporting

Driver Monitoring
- Driver monitoring
- Driver training

Fleet & Asset Tracking
- Real time tracking of fleet, inventory, equipment
- Maintenance log and scheduling
- Consist building and marshalling
- Auto logging of consist make up

On-Board
- Software and computers
- Voice & data communication
- High-speed internet connection
- Integration to peripheral devices
- Data logging and data management

PASSENGER INFO JOURNEY PLANNING TICKETING

In-Vehicle & Wayside
- Arrival / departure / delays
- Next stop and connections
- Voice announcements
- Automatic passenger counts

Journey Planning
- Front and back-end solution
- Web, app, call centres

Ticketing & Fares
- Mobile ticketing
- Smart Cards / ComfoAccess®
- Stationary and mobile vending machines
- Ticket printers
- Fare collection

Cost reduction through
realistic planning and simulation

Solutions designed

Delivery of an operational railway timetable involves the coordination of three key components: infrastructure, rolling stock and staff. These all have very different requirements and constraints. Trapeze Rail System ensures all this is taken into account.

Trapeze Rail System includes a simulation and planning tools that help planners develop effective operational plans that satisfy key business requirements for efficiency and stability. Our simulation tool enables planners to predict the behaviour of rolling stock, signalling systems and power supply networks and combine this information in numerous timetable scenarios and cost benefit calculations. For simulating power supply our solution includes a strong tool that simulate and analyse power supply, as well as electrical outage and emergency scenario.

The result is strong, optimized, conflict free and operational plans.

Benefiting from
efficient operations management

for your operations

Inefficient use of resources cost passenger and freight operations large amount of money. In an increasingly competitive industry managers need to know that their operational support systems assist them in optimising and using vehicle and crew resources in the most efficient and cost effective manner.

Trapeze Rail System has tools to assist in vehicle and crew allocation and in handling the daily operations. Our solution is designed to create optimised, efficient and effective schedules, to provide overview of the current situation, and quickly and efficient to manage any changes in the daily operation.

Develop your business through
customer focus

Public Transport Information (PTI) is an essential part of the modern transport system. By increasing the availability of accurate information, it is possible to raise usage of public transport. Passengers who are better informed before and during their journey can make better transport decisions and enjoy a smoother transition to their destination.

Reliable and readily available passenger information, easy journey planning and ticket purchase is essential to attract passengers and raise ridership. Trapeze offers comprehensive solutions for passenger information on in-vehicle and on-street displays, web portals, apps and journey planning solutions to meet the requirements from the business. Our ticketing solutions includes tickets purchase from stationary and mobile units, and various travel card solutions. Everything developed to meet passengers' demands for accessibility and operators' demands for efficiency and growth.

Understand and develop your business

IT generates a huge amount of data. Used in the right way this data can be used to streamline, shape and optimise your business. We offer a business intelligence tool that allow everyone within your organisation to easily access, analyse and distribute operational data.

Our rail solutions help organisations in:

- People transport – rail, light rail, metro, streetcar

- Government and local authorities

- Rail cargo transport

Business Intelligence
It's all about data

Trapeze business information tool retrieves data across the individual Trapeze applications and transforms that data into business and management information for Management, Controllers and Business Units within the organisation. Business Info provides managers with a number of Key Performance Indicators giving for instance a monthly overview of:

- Status of operational performance at different levels
- Comparison of performance of the individual units in the organisation
- Development in the performance of the individual units in the organisation

Our consultants can assist you!

Our consultants are specialised in analysing data and in operational planning for the rail industry. Our teams combine a mixture of analytical, systems and practical planning skills. We combine current know-how with comprehensive practical experience in the field of planning and simulation. This delivers competitive advantage to our customers, as it allows each system to precisely match specific operating requirements.

Ask us how we can help you understand and develop your business.

Trapeze ™

Trapeze Group delivers solutions that consider the full 360 degrees of passenger transport. Hundreds of government and commercial organizations across Europe, North America and Asia Pacific have turned to Trapeze to realize efficiencies, enhance the quality and scope of their services, and safely transport more people with less cost.

TRAPEZE GROUP:

www.trapezegroup.eu | www.trapezegroup.com

Australia	+61 7 3129 2092	info@trapezegroup.com
Canada	+1 905 629 8727	info@trapezegroup.com
Denmark	+45 8744 1600	info@trapezegroup.dk
Germany, Berlin (ITS)	+49 30 340 60 27-0	info.de@trapezegroup.com
Germany, Hamburg	+49 40 5300 31-0	info@trapezegroup.de
India	+91 90362 50996	info@trapezegroup.com
Sweden	+46 (0) 8 122 016 30	info@trapezegroup.se
Switzerland (ITS)	+41 58 911 11 11	info.ch@trapezegroup.com
UK	+44 (0) 8445 616 771	info.uk@trapezegroup.com
UK, York (Rail)	+44 (0) 1904 639091	info.railuk@trapezegroup.com

@trapezegroup twitter.com/trapezegroup

facebook.com/trapezegroup

linkedin.com/company/trapeze-group