Trapeze Transport Integrated Management System

Trapeze's Transport Integrated Management System is a comprehensive suite of business tools, which can give your organisation a competitive edge in achieving service excellence. We help companies of varying sizes in both public and private sectors manage safe, cost-effective and reliable transport services.

Efficiency at every corner
Eliminate handling information twice. The fully integrated Trapeze modules offer a one-stop-processing environment. Information in one module automatically updates across the suite.

Bring your users up to speed fast
Trapeze offers your employees intuitive, user-friendly graphical software. They can learn the ins and outs with a minimum of training.

Stay ahead of the pack
The Trapeze team understands the complexities of your local market. With diverse skills and wide-ranging business and industry expertise, we are always available to provide valuable insights and innovative ideas to meet your day-to-day challenges and benefit your organisation.

Four Modules, One Powerful Suite

Whether you prefer to integrate a single Trapeze module with your current operations or choose multiple applications for a complete enterprise system, it’s really your choice. Take a look at all we have to offer you:

- Initially developed by a major public transport operator
- Streamline operations and timetables using integrated vehicle timetabling, driver scheduling and crew rostering tools
- Optimise the complete service delivery, from developing the route network to publishing final timetables and staff rosters
- Get the best-possible bottom line by maximising vehicle resources and meeting service requirements.

A software suite for transport operators that cuts costs, boosts efficiency and raises the bar on service excellence. From the back office, to the vehicle, to the street and back again, improve your overall operational efficiency and customer service with just a single suite.
Planning and Scheduling

The Planning and Scheduling module is intuitive graphical software, which makes extensive use of interactive graphics and charts. The Planning and Scheduling tools can be learned with a minimum of training. The module was originally developed by a major public transport operator to satisfy real transit operating conditions. It ensures greater productivity from your vehicles and staff, and a significant reduction in operating expenses, so expect a considerable return on your investment and a quick payback period.

The savings allow publicly owned operators to reduce their level of subsidy, or privately owned operators to improve their profit margin. The service improvements generally result in increased patronage and corresponding fare revenue. The module provides fully highlighted solutions with an option for manual fine-tuning. Mathematical algorithms calculate the most economic use of fleet vehicles and staff in accordance with timetables, labour agreements and driver preferences.

Network Plan

Flexible Network Know-How

The Network Plan tool has an easy-to-use interface for defining routes quickly and efficiently. It lets you precisely input key points, such as depots, termini, turning points, vehicle stops and landmarks, using geographic coordinates. Route segments common to many routes can be replicated throughout the network. The database automatically calculates running times and distances for service routes or for vehicle repositioning between terminals and depots.

Flexible map graphics give you complete control over your network plan. You can make manual data adjustments to match your fleet and routes, or to keep up with changing local road conditions. The customizable database lets you highlight average speeds for different roads or include speed restrictions in specific areas. The quick-search feature on the map toolbar helps you easily locate streets, suburbs, towns, railway stations and other pieces of interest.

Fleet

Control Your Timetable

Trapeze’s Fleet tool produces a set of vehicle trips according to running and loading times and service frequency. It also incorporates any rules and operational preferences specified in the Fleet tool to then link these trips together in a sequence to produce the best possible timetable with minimal fleet size according to your specific objectives.

Make Revisions With Confidence

Major service changes or simple schedule modifications can be made easily. Each timetable—original or revised—can be maintained online and printed for driver and public use. In the end, you will spend less time managing your fleet.

Facts at Your Fingertips

With Fleet reports, you can improve fleet use by measuring and analysing a range of variables, including mile-kilometers, depot dispatches, departures and arrivals, and vehicles in traffic.

Benefits

- Reduces the number of vehicles required and the total distance travelled by the fleet
- Considers labour award conditions and driver preferences
- Provides schedules with greater capabilities, such as the ability to consider more service options
- Takes less time to produce more “what-if” route service analyses
- Provides the costs associated with each service option
- Produces high-quality printouts of crew schedules, duty rosters, route timetables, bus stop timetables and other reports, to the customer’s design

Optimisation Tools

The Planning and Scheduling module offers the following integrated vehicle timetable, driver scheduling and crew dispatching tools:

- Network Plan
- Fleet
- Crew
- Roster

Crew

Schedules That Work

Trapeze’s Crew tool reduces the complexity of creating crew schedules and optimises them for your company’s needs. You can build schedules according to shift types, pay formulae or labour regulations. These schedules integrate with vehicle timetables to satisfy your company’s unique scheduling parameters. You can then export the resulting schedules to better fit your specific needs and update them later as changes occur in your priorities.

Stay on Budget

The tool considers priority objectives to lower company costs, optimise driver and vehicle availability, and maintain route coverage. Use the Crew tool to:

- Minimise or maximise the number of driver schedules for a shift or depot
- Minimise the vehicle type at the specified depot, and
- Minimise schedules according to schedule type.

Benefits

- Creates cost-efficient schedules that meet budget, improve wage controls and increase operational savings
- Optimises crew availability while respecting labour conditions and regulations, and personal work preferences
- Maximises driver availability to satisfy schedules
- Generates informative statistical summaries for labour negotiations

Roster

Your company’s efficiency depends on having the right people in the right place at the right time. With Trapeze’s Roster tool, you can set schedules, allocate personnel, and automatically cost, print and post the results for everyone to see. This tool offers the flexibility to start your plan any day of the week for periods of 2, 14 and 28 days, and also create sequenced schedules to forecast weeks of work at a glance.

Cover Schedules. Control Costs.

Trapeze Roster makes rostering easy. The tool ensures that each daily schedule is covered, while satisfying employee work preferences. Information about staff availability and performed days off can be imported into the system so you can build multiple rosters and optimise your costs over the long term. The interactive tools let you add and match user-defined shift types and also input, update and edit day-off patterns automatically or manually.

Metrics Made Easy

All roster data is accessible online for easy, daily updates. You can make manual adjustments, validate completed rosters, calculate costs and track other relevant statistics in the fly.

Optimise Personnel

The module lets you define hard and soft constraints, such as:

- guaranteed minimum breaks between consecutive schedules
- aggregated schedule types to prevent overlapping in the same week
- personnel distribution to create balanced workloads and full schedule coverage

Benefits

- Produces staff rosters quickly
- Intuitive, user-friendly tools for drag and drop, undo and redo, search, and tab sorting
- Easily accommodate staff preferences for days off
- Flexibly adjust rosters to meet service or skill requirements
- Greater control over weekly undertime and overtime
- Ability to track current costs in real-time and forecast accurately for the future
- On-demand statistical reports and roster summaries
- Database for storing important employee details, such as contact information, work history and contact, work requirements and leave requests

www.trapezegroup.com