



Paracutter

Quickly create the most efficient paratransit schedules that save your agency time and money.



Say goodbye to manual runcutting. Paracutter is a browser-based runcutting tool that replaces complicated spreadsheets and weeks of work, allowing you to generate and compare resource requirements for multiple what-if scenarios in a single day. Fully integrated with Trapeze PASS, Paracutter provides your schedulers with quick, more accurate estimates of vehicles needed at a given hour and the most cost-efficient shift lengths that fulfill work obligations while minimizing the amount of non-revenue service.

Paracutter as a Service enables your agency to realize maximum efficiencies without the need for traditional software installation.

Overview



Get Service Levels Right

- Prospector module mines historical service records to determine vehicle requirements in each time slot throughout the day
- Identifies representative service days that meet a target service level
- Recommends hourly adjustments where supply was either less or more than actually needed
- Graphical tools help visualize analysis; manual tools allow for needed adjustments



Create Daily Driver Assignments

- Combines runcuts for individual days of the week into a composite week; allows you to standardize the pull-out and pull-in times for different days of the week and then automatically name the new runs to preserve continuity with existing PASS run names based on those times
- Imports and enables the new master runs as well as closes out the old runs
- Allows you to assemble the daily runs into weekly driver assignments, print bid sheets, and record driver assignments
- Enables users to import daily driver assignments to the PASS template runs - standard batch/match process can then assign the appropriate drivers to live schedules every day



Define Shift Rules and Validate Existing Runs

- Enables user to define shift rules for various types of straight or split shifts; defines layover time between runs, optionally mandates a specific start or end time for certain runs, or specifies a host of other useful constraints
- Alternates shift rules that could improve service efficiency
- Validates existing runs against current/proposed shift rules to understand how well they comply



Test What-If Scenarios

- Enables user to combine service level requirements, shift rules, and optimization goals to fully define runcut criteria
- Optimizes solutions for minimum hours, drivers, and/or vehicles; proven algorithms build runs, vehicle blocks, and driver shifts based on these criteria
- Rapid solution times enable users to vary the assumptions and test the impact of different strategies; builds different options faster than for single manual solutions
- High-level statistics, diagrams/tables compare each solution against what was operated

Agency Benefits



Improved Operational Efficiency

Create runcuts in much less time. Automation allows agencies to cut the runcut process from hours to minutes, effectively streamlining paratransit operations. A few keystrokes are all that is required to replace your old master runs with new ones. Directly integrate proposed solution to daily schedules.

Paracutter allows you to perform a system-wide or single-provider runcut. Just like PASS, it fully supports provider security restrictions.



More Accurate Demand Forecasting

Match runcut to historical demand. Study historical service patterns and predict future service requirements so your agency can allocate available resources in the most effective manner to meet expected demand.



Optimal Vehicle and Operator Deployment

Provide sufficient on-street resources throughout the day and avoid excess vehicles during off-peak periods. Paracutter allows you to generate a runcut that shows you the best times to relieve some of your service by off-loading trips to a taxi or TNC to keep your costs down. It also performs runcuts that satisfy work rule requirements.

Passenger Benefits



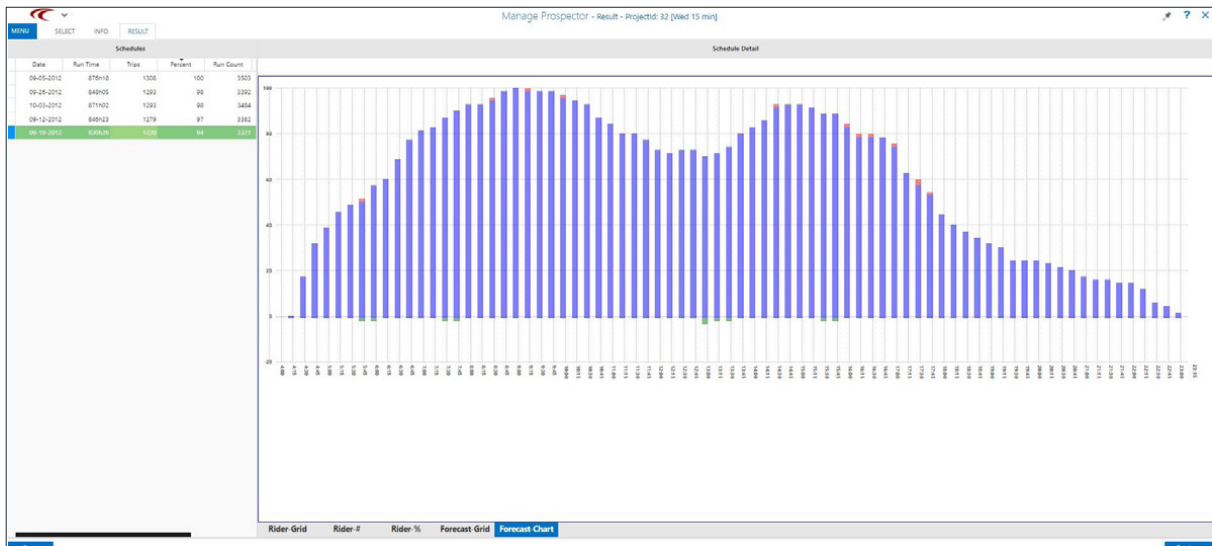
Reliable Service

- Meets passenger demand with sufficient on-street resources
- Increases passenger confidence in your agency to get them where they need to be



Improved Rider Experience

- More efficient runs translate to better trip times, on-time arrivals, and other KPIs that positively impact the passenger experience



Prospector forecast of routes required

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