TrainMAX is an interactive decision support system used to create a railroad's optimal train schedule, which is perhaps the most important aspect of the operating plan since it dictates the use of all assets in the rail network.
TrainMAX is an interactive decision support system used to create a railroad’s optimal train schedule, which is perhaps the most important aspect of the operating plan since it dictates the utilization of all assets in the rail network. The system determines the number of trains to run; the origin, destination and route of each train; days of operation of the train; where railcars need to be picked up and dropped off; and train arrival and departure times at each location visited by trains.

TrainMAX creates train schedules while honoring yard and track capacities and optimizes the global cost spent in railcars, locomotives and crews. Use of this system has resulted in tens of millions of dollars of cost reduction annually for our clients.

TrainMAX designs optimal train schedules. Train schedules can be generated (i) in clean slate mode; or (ii) in incremental mode, in which a given train schedule is modified with limited degree of freedom.

TrainMAX takes into account all important costs (railcar, locomotive and crews) and minimizes the total cost of movement. It also honors yard and track capacities.

TrainMAX is a web-based system with tables, charts, terminal timelines and maps. Train schedules can be evaluated from different perspectives – network, terminal, train, block and shipment – and drilled down for detailed analysis.

TrainMAX allows multiple user types with different privileges. It allows the creation of multiple scenarios and the sharing of scenarios with other users. Scenarios can also be compared with one another.

Want to see more? Go to www.optym.com