

SCHEDULE VIEWER

View and optimize train schedules

FOR TODAY'S CHALLENGES

Designing train schedules is challenging. From deciding routes, to considering track constraints, to selecting assets, to assigning crews, to factoring in maintenance schedules, the process is time-consuming and requires the evaluation of an overwhelming amount of data. And all of this is against the backdrop of a constantly changing environment. With a plethora of possible variations, finding the most profitable schedule that satisfies customer needs and operational constraints is a daily dilemma.

Schedule Viewer is a simulation tool that utilizes topology data, production schedules, and meet-pass optimization algorithms to provide users with complete visibility into train schedules across the network, analysis of predicted rail traffic performance, and the ability to resolve conflicts. In short, it helps railroads create optimal plans to keep trains on schedule and recover faster when disruptions occur.

APPLICATIONS

Create Optimal Operating Plans:

Determine the feasibility and quality of current operating plans:

- Average network velocity
- Total train delay
- Schedule buffer
- Underpowered trains
- Crew time on train
- Arrival/departure times

Test Operational Adjustments:

Assess the impact of changes to the operating plan:

- Impact of adding new business
- Best time for maintenance activities
- Impact of train configurations
- Perform what-if scenario analysis

Recover from Disruptions Faster:

Simulate new plans based on disruptions like, track outage:

- Identify new routes for trains impacted by the disruption
- Analyze the impact to surrounding trains and across the entire network
- Generate new optimal schedules

TURN SIMULATION INSIGHTS INTO OPERATIONAL OUTCOMES



KEY CAPABILITIES

Robust Technology Foundation:

- Built on Wabtec's proven Movement Planner foundation

Visualize & Identify:

- Easily view schedules from 24 hours to seven days out
- Spot conflicts within schedules; across network

Evaluate & Optimize:

- Establish KPI criteria to measure results
- Define scenarios
- Optimize schedules using proven planning algorithms and dispatch topology models
- Quickly resolve conflicts within schedules and generate new plans
- Compare and contrast different scenarios before selecting the best plan

BENEFITS & OUTCOMES



Increase schedule feasibility and quality



Improve predictability of train schedules



Increase visibility to operating plan impacts



Minimize disruptions to the network

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