

SADDLE POINT TECHNOLOGIES

Cloud Based Integrated Supply Chain Planning and Optimization Suite

Building Operational Efficiency in Complex Supply Chains



Production Scheduler

Saddle Point Technologies offers an integrated cloud based supply chain planning and optimization suite that are used for optimizing complex supply chain planning processes.

- Addresses processes like Sales, Distribution, Production and Procurement
- Caters to Strategic, Tactical and Operational levels of planning
- Extremely easy to use with spreadsheet like functionalities
- KPI dashboard for industry standard Supply Chain metrics
- Cloud solution with a SaaS offering
- Integrated with leading ERP systems like SAP, Netsuite and Exact

<p>SCP Cloud Suite</p>  <p>Cloud based end-to-end integrated Supply Chain Planning and Optimization Suite with a SaaS offering.</p>	<p>Demand Planner</p>  <p>Collaborative Demand Planning with Forecasting, Promotions Planning, NPI and Sentiment Analysis modules.</p>	<p>Supply Chain Optimizer</p>  <p>Generate a low cost fulfillment plan by reducing supply chain costs like production, transportation, inventory and procurement .</p>	<p>Inventory Optimizer</p>  <p>Reduce inventory cost by determining optimal inventory levels based on SLAs, lead time and demand and supply variability.</p>
<p>Procurement Optimizer</p>  <p>Minimize total procurement cost across all vendors by considering volume discount and constraints like Lot size, MOQ, Min-Max quota</p>	<p>Production Planner</p>  <p>Generate capacity and material feasible production plans (Rule based Heuristics) or optimal production plans (Optimizer based)</p>	<p>Transportation Optimizer</p>  <p>Minimize total transportation cost by using fleet capacity efficiently, consolidating loads and better rake/truck requirement planning.</p>	<p>Production Scheduler</p>  <p>Create constrained production schedule with make span minimization based on job shop, flow shop and hybrid layout.</p>
<p>Vehicle Route Planner</p>  <p>Generate feasible and optimal routes based on constraints like delivery time windows, pickup or delivery, vehicle capacity etc.</p>	<p>Workforce Optimizer</p>  <p>Allocate workforce optimally to multiple projects based on resource costs, skill-set levels, learning curve, transition cost.</p>	<p>Shift Scheduler</p>  <p>Generate a feasible shift schedule by adhering to shift assignment rules like maximum consecutive night shifts, forbidden shifts etc.</p>	<p>Facilities Planner</p>  <p>Find the best location for a new plant or warehouse from a list of candidate locations that optimizes the supply chain.</p>

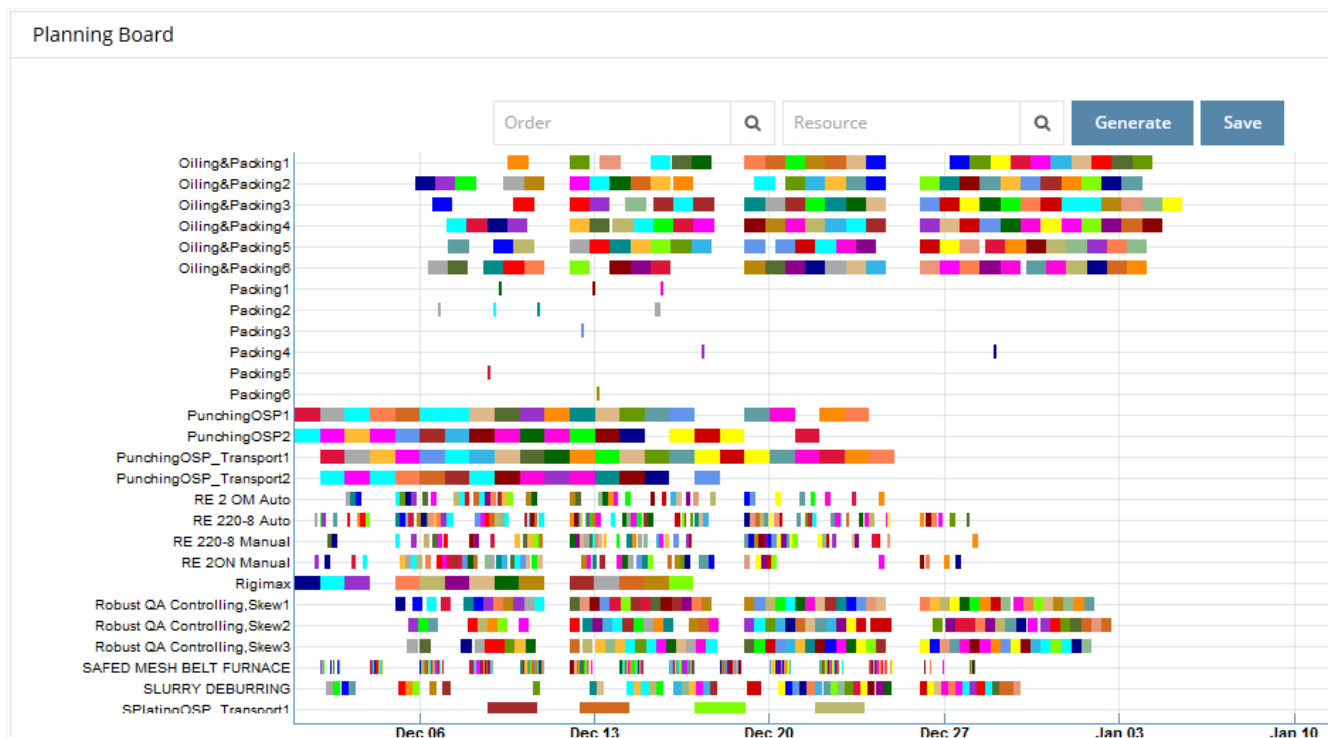


Production Scheduler

Production Scheduler is used to assign the work orders to production resources optimally so that the total time taken to produce those orders is minimized. Unlike normal heuristics that gives sub-optimal solutions, the scheduler uses the best of constraint programming and meta-heuristics for near optimal solutions.

Constraints like preceding activities, succeeding activities, multi activity resources, inventory points, planned receipts and part production completion can be modeled.

Sequence dependent setup time and product dependent set up time can be modeled and minimized.



Features:

- Uses best of constraint programming and meta-heuristics to provide near optimal solutions
- Multi activity resources and multi level BOM can be modeled
- Sequence dependent setup time and process dependent setup time can be modeled and optimized
- On hand inventory and planned receipts can be considered during planning
- Part completion of production orders can be accounted during planning
- Provision for accommodating hot orders and re-planning
- Alternate routings and alternate BOMs can be modeled