

# SADDLE POINT TECHNOLOGIES

## Cloud Based Integrated Supply Chain Planning and Optimization Suite

Building Operational Efficiency in Complex Supply Chains



### Vehicle Route 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.

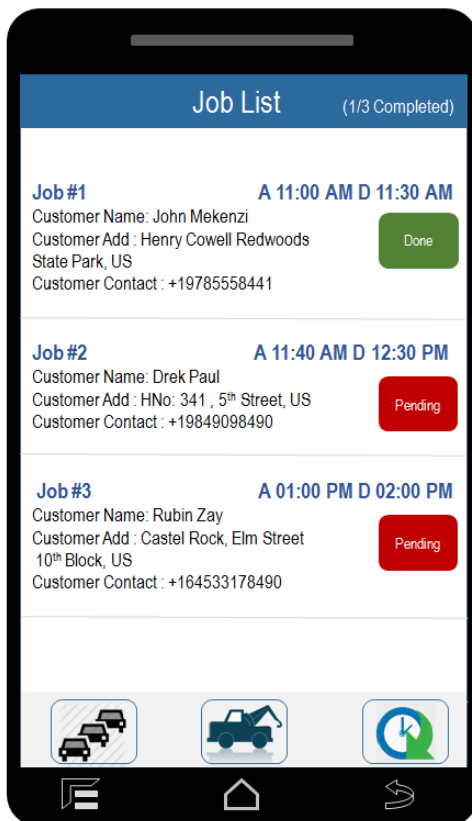
- Addresses processes like Sales, Distribution, Production and Procurement
- Caters to Strategic, Tactical and Operational levels of planning
- Extremely easy to use with spreadsheet like functionalities
- KPI dashboard for industry standard Supply Chain metrics
- Cloud solution with a SaaS offering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

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



## Vehicle Route Scheduler

Vehicle Route Scheduler is used to determine the cheapest routes for last mile delivery from multiple depots while considering constraints like vehicle capacities, delivery time windows, working hours of the driver, pickup of returns and various costs like driver cost, fixed and variable cost of the vehicle and taxes.



The Vehicle Route Scheduler has been integrated with smart-phone based platform for delivery tracking, real-time tracking of vehicles, actual travel distance calculation based on travel routes and automated billing and invoicing.

## Industry variants of VRS



**e-Commerce**



**Home Services**



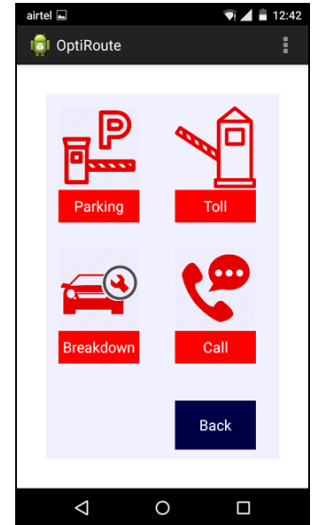
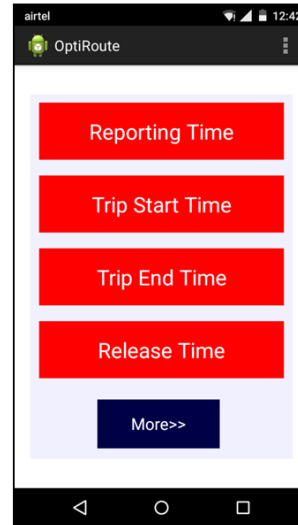
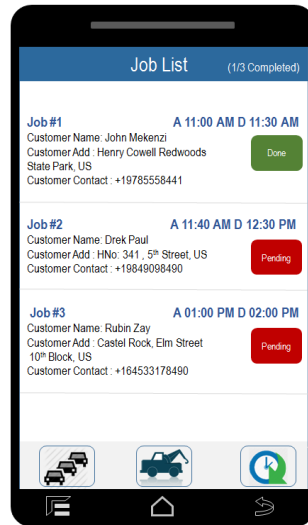
**Food Distribution**

### Features:

- Multiple depots/supply points and demand points
- Pickup and delivery of orders
- Multiple vehicle types with weight and volumetric capacities
- Weekday based multiple time windows for each customer for delivery
- Order fulfillment within late delivery window
- Working days and working shifts of driver
- Fixed cost for each vehicle and vehicle based transport cost/time
- Waiting charges and loading and unloading costs
- Integrated with standard API's like Google, Mapquest, Here maps, Grasshopper
- Integrated with Google maps for outputs
- Integrated with Android platform for real time tracking, updates and monitoring

## Features of Mobile Application:

- Real-time vehicle tracking through the smart phone's GPS
- Real-time update from the drivers regarding job completion status
- Updates on traffic conditions like road blocks and traffic congestion
- Automated distance tracking, logging and invoicing



## Graphical Reports:

