

CASE STUDY

How SWAT Helped A Leading Convenience Chain-Store Improve Operational Efficiency & Save Costs.

This renowned Japanese convenience store began operations in Thailand in 2013. With over 300 stores across the country, and covering 33 routes daily, this mid-mile delivery process from distribution centres to stores became increasingly complex. Managing inventory replenishment amid demand variability added to the challenge. To tackle this issue, the company turned to SWAT Mobility to optimize and improve the process.

Challenge

- ▶ Heavy reliance on human knowledge for manual route planning.
- ▶ Multiple operational constraints such as vehicle capacities, driver schedules, and restrictive store delivery time windows.
- ▶ Underutilization of vehicles and overlapping routes.
- ▶ Lack of visibility into vehicle location and order status.
- ▶ Increasingly complex delivery operations without dynamic adaptability.

Solution

To tackle these challenges, this convenience chain-store in Thailand decided to **automate its delivery operations** using SWAT Mobility’s advanced route planning and load optimization system. This system was able to **generate the most optimised routes based on real-time traffic conditions**, ensuring that it met **100% of the specific constraints set** for the chain-store's operations.

Furthermore, the system intelligently **maximised the load capacity of each vehicle**, ensuring optimal efficiency. SWAT Mobility also introduced **geofencing** to group orders within specific zones, **reducing overlaps** and enhancing overall operational efficiency.

SWAT Mobility’s driver app enabled **live tracking of vehicles** and **order statuses**, **along with proof of delivery**, provided enhancing **visibility** and control over the entire operations.

Benefits



Customised & automated planning process



Optimised Route Planning



Improved vehicle utilisation rate



Reduction in transport cost



Vehicle and order tracking



Analytics & insights



Sustainability

10%

Increase in vehicle utilisation rate with the same fleet

30%

Kilometers per trip reduced

<30 mins

Spent daily to complete route planning automatically

TRUSTED BY LEADING COMPANIES



Optimise Routes, Maximise Profits



Route Optimisation

Our patented dynamic routing algorithm plan the most optimised route.



Load Optimisation

Ensure each vehicle is maximally loaded with the right mix of products.



Fleet Management

Set vehicle constraints, such as capacity, height, weight to ensure optimal resource utilisation.



Customisable Constraints

More than 200+ parameters can be taken into account to fulfil operational requirements.



Route Editing

Flexibility to manually edit system-generated routes.



Dispatch Scheduling

Auto-schedules vehicle's arrival and departure time to/from warehouse.



Geofencing

Customisable vehicle operational area based on current existing operations.



Time-Dependent Speed Map

Optimise routes based on real-time road speeds at different times of day.



Vehicle Real-time Tracking

Monitor fleet location, movement, status, and activities in real-time.



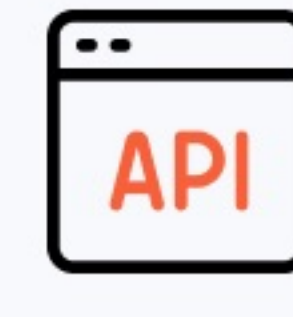
Delivery Tracking

Provide real-time delivery tracking with accurate ETA to your customers.



Reporting & Analytics

Gain insights and make informed decision based on comprehensive data analysis.



Third-Party Integration

Seamlessly integrate with your systems via our API.