



## Fleet Scheduling and Management System

An Intelligent Logistics Solution with Resources Optimization Functionality

**Fleet Scheduling and Management System (FSS)** is a delivery planning and scheduling application aimed at providing resource management and optimization for a corporation's daily distribution operations. FSS is a package with intelligent optimizer engines and service agents that help to manage and monitor the process flows and performance of the order delivery & fulfillment operations. Major functions and features include:

**Resource Utilization Optimizer** can maximize the productivity of the resource by the automatic resource allocation and matching processes. The optimizer can fully consider the type of resources with the time and place of availability. When delivery orders are recognized and accepted into the system, the optimizer can match them with the available resources for fulfilling the orders. Delivery schedules of vehicles are generated or adjusted with all the orders including the late orders. The Resource Utilization Optimizer is a back-end process generating projected resources plan for the operational staff so that they have a clear picture of the resource allocation.

**Route Scheduler** provides the ability to calculate the optimal delivery sequences and produce job schedules for delivery purposes. Route Scheduler takes in the available resources managed under the Vehicle Manager Module so that the schedules generated will be closely matched with the available resources. In addition to the automatic Route Scheduler, Fleet Console Manager is also provided for users to make changes to the schedules manually for meeting special customer requests.

**Fleet Console Manager** provides comprehensive views and figures about the schedule plans and utilization statistics. Schedule plans are visualized on easy-to-read digital map and statistics tables. Users can perform manual adjustment to the auto-generated plans by the Route Scheduler.

**Vehicle Management Module** assists user to manage the basic information and availability of the vehicles. Daily schedule of vehicles and human resources can be managed and maintained in this module. Such information will be validated and used by the Resource Utilization Optimizer when performing resource matching and allocation. Operation costs and statistics are kept in this module for decision support and management report purposes.

**Order Tracking Module** capability can further allows operation center to understand the delivery progress of individual trucks and people. Field worker will make use of the PDA units and GSM network to pass back job fulfillment status to back office's operational database.

Operation center can base on the update status to make further job-rescheduling and resource re-allocation activities. Job order status can also be posted to Internet server for online order tracking service for end-users.

**Truck Loading Validation Module** validates the correctness of goods being loaded into vehicles before leaving the warehouse. This can ensure the right goods are loaded into the right vehicles according to the delivery schedule assignments. Handheld device will be adopted in this work process.

**Job Completion** functions allow users to report job completion information and miscellaneous costs involved during the operations.

**Address Engine** provides online/batch mode address verification and pin-mapping services to the request delivery address locations.

**Integrated Comprehensive Hong Kong Full Address Database and Digital Maps** supports the high accuracy and usability of the above advanced functionalities.

**GPS/GSM Location Tracker** traces the real-time locations of the fleet(s) of vehicles for ad-hoc scheduling and job monitoring purposes.



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