

RADAR (Resource Allocation, Despaching and Rescheduling System)

Introduction

RADAR is a state-of-the-art computerised system to automate the process of resources (drivers & vehicles) allocation, despaching and re-scheduling in daily operation for public bus operators.

It uses complex rules and optimisation engine, coupled with real-time resource availability data, to help the dispatchers in making quick and accurate decision for matching and assigning the right resources for the right jobs with ease.

This system not only provides the necessary information for managing the operation, it also provides the convenience to drivers and passengers to view the job assignments and schedules respectively.



RADAR system can be easily tailored and customised to specific operations (ship, train, truck, etc), by configuring the major operations related business logic and rules while maintaining the core software modules.

Resource Allocation

RADAR provides on hand drivers and vehicles information, allowing dispatchers to make better decisions on how to allocate there resources effectively through intelligent logic and rules.



Despaching

RADAR incorporates an alert feature that is able to warn dispatchers when corrective measures need to be taken, such as driver has not reported to work, particular bus has not returned, etc. It shall activate the resource allocation engine to re-deploy resources if needed.

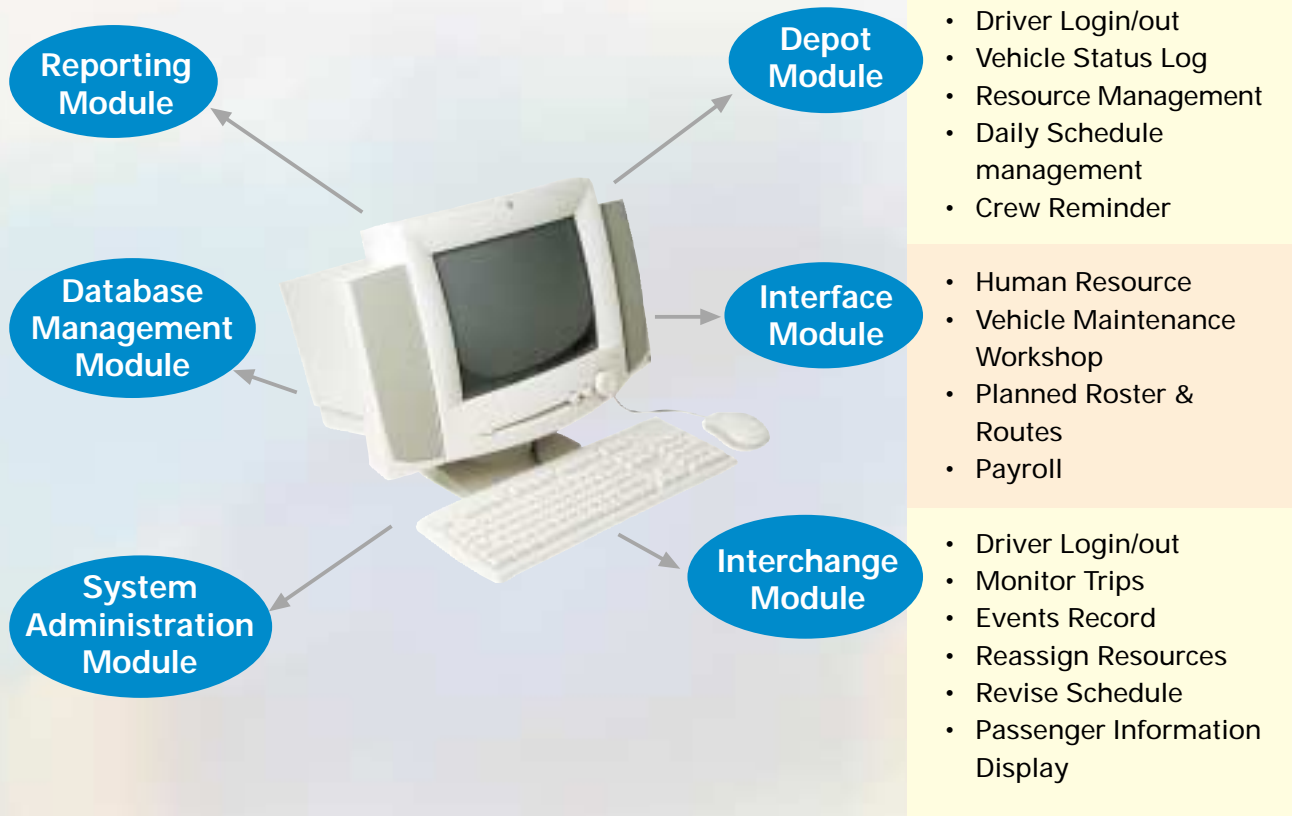


Re-scheduling

RADAR has a re-scheduling module that can smoothen out the headway between services by adjusting the subsequent departure / arrival time to better suit actual daily traffic condition as well as passenger loads.



RADAR



Benefits

- Higher operational efficiency by having timely information of resources and schedule
- Better passenger service by making on-the-spot schedule changes to suit traffic conditions
- Cost savings in payroll processing by reducing or removing paper tracking
- Scalable to full-fledged Fleet Management System

Technology

- Redundant Servers (Cluster) & Network
- Optimisation Engine
- Relational Database



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