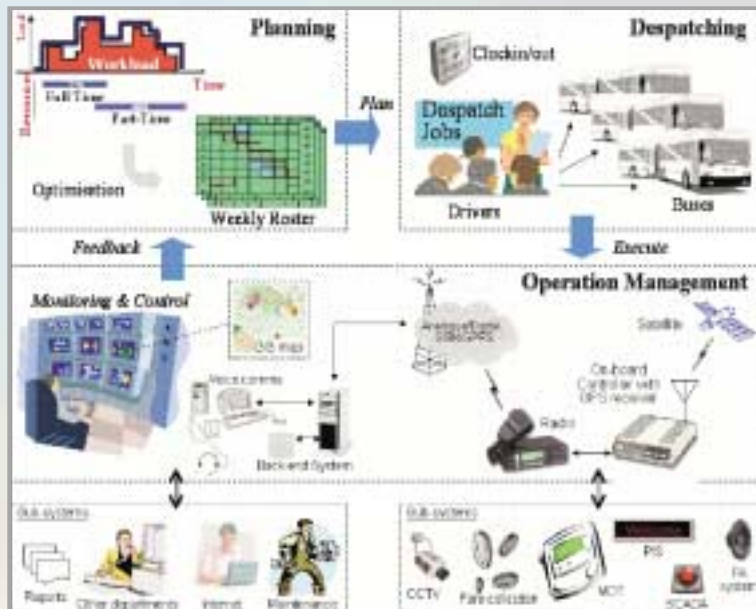


Fleet Management System

Introduction

Today, the roads are getting congested as population in and around the urban areas are growing at a phenomenal pace. For most big urban transport services, the biggest challenge is to manage the huge fleet of vehicles and drivers efficiently to maximize profits without compromising on the quality of service. This is where Fleet Management is gaining ground.



Typical Fleet Management

In any closed loop system, we need to plan, execute it with real-time monitoring and control, finally with feedback for analysis and fine tuning of the original plans.

Silicomp's Fleet Management System consists of all components required for planning, dispatching, monitoring, tracking and managing the fleet. The system provides configurable features, customisable look & feel and replaceable communication mechanism.

Features

The system allows urban transport companies to despatch their resources effectively with the pre-planned schedule and track each of its vehicles on the road in real-time using GPS. It also enables the drivers to communicate (both voice and data) directly with the control centre through wireless network like Analogue/Digital radio or GSM/GPRS. Any immediate corrective decisions and actions can then be taken by the operators without delay during daily runs using the real-time data collected.

The fleet management system allows for the following operational requirements:

- Planning scheduled trips between known points
- Tracking Bus Status in real-time (location, speed, bus load, ...)
- Voice and Data communication with the bus
- Interface to other on-board sub-systems
- Interface to other backend systems such as Maintenance Management System, Public Transit Information System, ...
- Network Analysis to aid effective re-planning



Why do you need Fleet Management?

With fleet management system, the following can be achieved:

- buses reach destination on time
- reduce "bunching" and smoothen "headway"
- adjust schedule according to demand
- resolve emergencies effectively like bus breakdown, traffic congestion, etc
- optimise usage of resources

It is also possible to provide passengers with up-to-date information like estimated time of departure/arrival, next stop information, ad-hoc messages, etc. In addition, driver and service performance can be deduced from the data collected and hence improve the operation efficiency further to serve the passengers better.



Benefits

- Improved operation efficiency
- Readily available real-time information
- Faster and more informed decision making
- Better communication and messaging
- Faster response to emergency situations
- Improved commuter experience and trust

Technology

- Real-time Embedded System
- Wireless Communications
- High Availability and Redundancy
- Optimisation Engine
- Relational Database
- Visual C++, Java, J2EE



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