



WAREHOUSE LOCATION OPTIMIZER

Enhance utilization and emphasize real-time location occupancy
Boost warehouse visibility using IoT

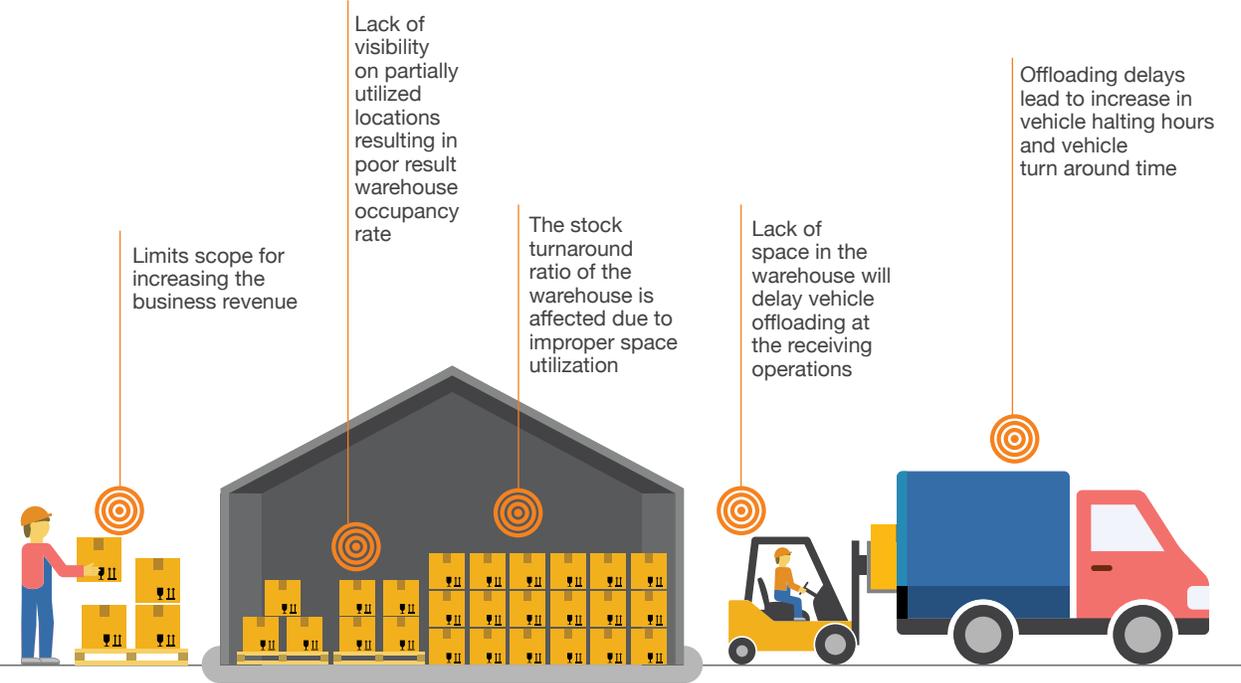
INTRODUCTION

In a supply chain network, the warehouse plays a vital role in receiving and supplying the right product, at the right place, at the right time for many years. In fact, globalization and the emergence of omni-channel eCommerce platforms has increased the role of a warehouse in the entire supply chain.

As warehouses have become vital players for effective supply chain management, it is important to address the challenges hindering their optimal performance. One of the major pain points is optimizing the utilization of the warehouse location, as one of the major problems confronting 3PLs is reserving locations/slots in a warehouse and the utilization of space inside each location. Internet of Things (IoT) can play a major role in optimizing the utilization of the warehouse.

IMPACTED AREA

Improper utilization of warehouse locations impacts major areas of operations. Some of them are:



THE SOLUTION

Current processes to manage location utilization in a warehouse are manual and inefficient. Automating these processes can increase the efficiency and lead to higher warehouse optimization.

HCL's Location Optimizer Solution utilizes IoT to provide location-specific occupancy levels in real-time through the use of IoT-enabled smart devices and sensors. These intelligent sensors provide the data points needed in real-time to help manage current optimization and help in increasing the optimization levels to drive higher revenues and reduce costs. Key features of this solution are:

 Real-time updates of location-specific utilization	 Direct interface with the WMS system to ensure error-free updates
 System-generated report for consolidation of location and improving the occupancy levels	 Complete visibility of warehouse, enabling additional maximum volume handling capabilities
 Fast and highly accurate location utilization process	 User-friendly operation features for a state-of-the-art warehouse

THE BENEFITS

Some benefits of the location optimizer solution, when compared with the conventional warehouse, are:

CONVENTIONAL LOCATION OPTIMIZATION	LOCATION OPTIMIZATION WITH SMART DEVICE
▶ Manual and time consuming process	Automated and error-free process ◀
▶ Warehouse level visibility on space utilization	Location/ slot level visibility on space utilization ◀
▶ Less scope for improving the stock turnaround ratio	Stock turnaround ratio will improve drastically ~ 20–30% ◀
▶ Limited ability to support dynamically changing business volumes	Flexible and a fool-proof system, which can adapt to changing business volumes ◀
▶ Person-dependent optimum utilization of the warehouse	System-driven consolidation report and event-driven exception handling ◀
▶ Lack of space impacts other activities within the warehouse	Optimized utilization of space and decreased impact on other activities ◀
▶ Low customer satisfaction level	High customer satisfaction leading to more business ◀



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