SIMULYTICS SERVICES

CONSULTING | ANALYTICAL SERVICES | MANAGED SERVICES | SOFTWARE PRODUCTS

CLIENTS

PAINTS

LUBRICANTS

FOODS

PHARMA

CONSUMER ELECTRONICS

EXPRESS LOGISTICS

3PL

CONSULTING

Supply chain planning and operations

Reverse logistics operations

Warehousing operations

Supply chain network design and optimization

DATA ANALYSIS

Data Analysis, Mining and Modeling

Quantitative Solutions, Optimization Models, Heuristics Solutions

Optimization solutions based on Linear programming, Integer programming and Mixed Integer programming models

SOFTWARE PRODUCTS

Warehouse Management System

Transportation Management System

Production Planning

Distribution

Inventory Management System

Supply Chain Simulator

Warehouse Management System (WMS)

Simulytics Warehouse Management System (WMS) is suitable for a wide range of warehousing operations such as retail, distribution centers, trans-shipment locations etc. This contemporary WMS is a web based solution that supports single or multiple warehouses with centralized control over operations. Simulytics WMS is a combination of expertise in supply chain domain and sound IT services. This user friendly solution is easily deployable across multiple facilities. It gives you immediate advantages of optimization of resources and reduction in operational costs.

WMS Features

Simulytics WMS solution addresses the complete lifecycle of goods in warehouses. The comprehensive features are listed below.
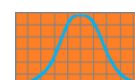
Basic Features

- Flexibility and control to users
- Optimization and utilization of space and assets
- Support for multiple material handling procedures
- Suitable for a wide range of warehousing operations retail, distribution centers, trans-shipment locations, etc
- Integration with other IT solutions – ERP, TMS, RFID, Barcodes
- Rapid deployment within weeks
- Web based solution that supports single or multiple warehouses

Value Added Features

- Workflow controlled access, approvals and exception handling privileges
- Automated alerts & events
- User-interface for hand-held devices
- High visibility, dashboards and reporting features
- Kitting operations, aggregation / disaggregation operations
- Full audit trail of all transactions

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Simulytics WMS Key Benefits

- Reduction in inventory variance as the WMS provides clear visibility and accuracy in inventory management operation
- Rapid order-picking & dispatch allows better customer service
- Rules-based material storage with ageing control – First-in First-out, First-Expiry First-out, etc.
- Rapid physical stock verification to control pilferage and wastage
- Improved labour and space utilization for reduced operational costs
- Optimized usage of material handling equipment
- Automated integration with ERPs

Key Modules

Material Put-away

- Segregation of stock for SKU categories
- Assignment of bins (locations) based on priorities of the user
- User defined preferences – speed of put-away or efficiency of space-utilization
- Control and management of cross-docking stock
- User defined isolation of SKUs
- Effective use of all vertical levels in the warehouse
- Handling of all variants of receipts:
  - Unit-in
  - Case-in
  - Pallet-in
- Batch-wise segregation to maintain batch-level control

Material Dispatch

- Order picking based on FIFO, FEFO, or other user defined rules
- Configurable order-picking for high volume-high speed dispatches
- Handling of all variants of dispatches:
  - Unit-out
  - Case-out
  - Pallet-out

Space Management

- Assignment of bins to SKUs based on expected usage
- Space optimization based on inventory reorganization
- Prioritization for full cubic-space utilization

Material Kitting & Processing

- Creation of new SKUs by kitting other SKUs
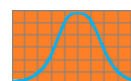- Management and storage of kitted SKUs for rapid dispatch

Inventory Management

- Automatic collection of fragmented inventory
- Special zones for damaged / quarantined / blocked / returned / expired / quality-restricted stock
- Sub-optimal storage can be re-organized to improve dispatch efficiency
- Batch management and aging control

Warehouse-Within-Warehouse

- Internal replenishment of stock between fast-moving and slow-moving bins
- Improves dispatch efficiency
- Pre-preparation of stock for future dispatches
- User configurable inventory norms
- Adheres to FIFO/FEFO rules

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ALERTS AND TRIGGERS

Early warning for shortage of empty bins and shortage of stock v/s norms

Alerts for delayed put-away and delayed dispatch

Automated data backup and integration with other ERPs

REPORTS & DASHBOARD

Basic reports on stock, receipt, dispatch, pending and other transactions

Advanced reports on exceptional transactions, material statements, audit and variance reports

Dashboard for work-in-process visibility and historical performance reports

TECHNOLOGY

MS-SQL server

ASP.NET framework based development

Desktop as well as browser based application

Centralized hosting for browser based application

SUPPORT SERVICES

Technical Support

Installation and Setup

Maintenance

Application Support

Consulting

BPO