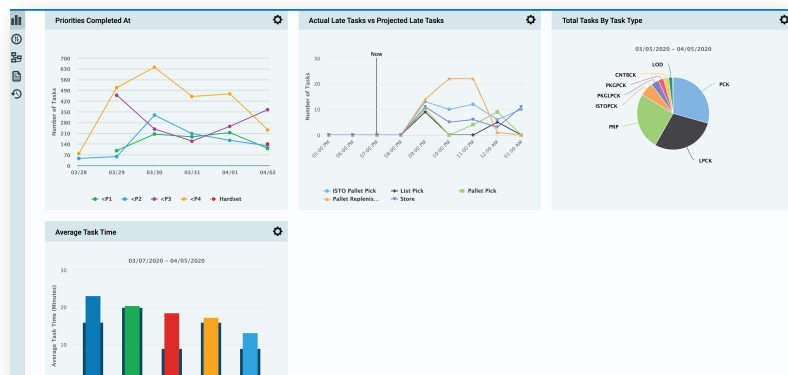🌐 Luminate Logistics

Warehouse Tasking

Intelligent task optimization to help drive throughput, efficiency and competitive advantage

Business context

In a fast-moving marketplace, maintaining the highest level of efficiency and the lowest cost of operations is an ongoing challenge; especially in the face of mounting service levels. Customers are demanding faster deliveries with shorter order-to-ship cycles, and the warehouse environment is constantly changing. That means nonstop changes in staffing levels, inventory positioning, equipment and work within the 4 walls of the Distribution Center.

The Blue Yonder solution

Warehouse tasking is built on a robust SaaS-based platform; and leverage the power of Microsoft Azure. The solution was developed to extend and enhance warehouse capabilities while harnessing the power of machine learning to unlock opportunities for greater efficiency and cost savings running in a 24x7 warehouse environment.

Real results

Reduce administration costs by

80%

Improve case pick productivity by up to

12%

Increase units-per-hour (UPH) by up to

12%

Improve pallet pick operations by up to

6%

Key features

- **Bi-directional prioritization**
  Tasks priority to be escalated or de-escalated based on multiple factors, including carrier appointment time.

- **Task chaining**
  Ensures replenishment and pick tasks are executed in the right sequence for the right order.

- **Capacity smoothing**
  Resource availability and capabilities are factored into the prioritization of tasks.

- **Priority tie break**
  Appointment trailer will be given higher priority than a drop load with all other conditions being equal.

Capability details

Integrated distributed order management

Warehouse tasking integrates to any distributed order management and warehouse management solution to enable the rapid response from distribution centers and hubs necessary for you to offer customer in-store fulfillment services, such as click & collect, manage returns and ship via parcel.

Synchronized interleaving

Warehouse tasking and interleaving enables the most efficient task assignments for all work, with integrated voice or RF-directed interleaving of tasks. Tasks are assigned and interleaved based on proximity, priority and permissions to maximize efficiency and service.

Advanced visibility

Warehouse tasking gives site managers visibility into the future based on the resource schedule and work currently in the warehouse management work queue.

Robust analytics

Warehouse tasking's analytical tools define the right parameters for maximum efficiency, so you can employ the right number of workers based on demand.

Agile task assignments

Tasks are assigned based on the parameters you define, while the engine tracks task-related shift lengths and times the position of labor resources in near real-time.

Flexible allocation

Using warehouse taskings allocation capabilities, you can reduce travel time and pick items in the most effective way as new assignments come, even in ever-changing conditions.

- **Rolling the dock**
  Prioritizes picking tasks for the least effort to complete load (outbound) and to empty a staging lane (inbound).

- **Ship to address priority**
  Tasks associated with international shipments are prioritized differently from domestic shipments to help ensure customer SLAs are met.

- **Multi-layer visibility**
  Offers high-level operational views down to the individual task as well as lagging and leading views.

Key benefits

- Reduce administrative overhead by reducing manual task manipulation and enabling focus on value-added activities.

- Increase efficiency through improved orchestration of picks and replenishments.

- Increase throughput by improving dock utilization and prioritizing nearly completed shipments (in and out).

- Enable upstream decision optimization by leveraging a probabilistic demand forecast.

Digital transformation is at your fingertips

Complete a low-cost pilot for warehouse tasking in just 6-8 weeks and validate the business case, value potential and other benefits to your organization.

To learn more, visit blueyonder.com

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