

Blue Yonder December 2023 Product Release Announcement

Blue Yonder unleashes an innovation shockwave

with its merchandising, supply chain planning, commerce, logistics, and resource management solutions.

We are excited to release our **largest product update in the history of the company**, including our first set of integrated solutions, delivered on the **Luminate® Cognitive Platform**. This is made possible thanks to the progress the company has made in delivering the industry-leading capabilities it [announced earlier this year](#), powered by groundbreaking technologies that improve business performance and customer experience: a common supply chain platform across planning and execution; a single data cloud; infused predictive AI and ML; and cloud-native, composable microservices.

By bringing together enhanced enterprise-level speed and scalability with a unified view of the entire supply chain, our customers will now experience faster, closed-loop, business decision-making and responsiveness, creating a more transparent, resilient, and agile supply chain.

What's New in Retail

Transforming the Retail Supply Chain with Cutting Edge Capabilities and AI-Driven Decisions from Planning to Fulfillment

For retail customers, Blue Yonder introduces our recently **launched set of cognitive solutions**, including **Cognitive Merchandise Financial Planning** and **Cognitive Demand Planning**. These solutions have embedded AI and leverage a unified data cloud on Blue Yonder's Platform Data Cloud, powered by Snowflake.

Explore our latest products and exciting updates to our extensive catalog of offerings, including Replenishment for Retail, Intelligent Allocation, Workforce Management, Commerce, Warehouse, Transportation and Logistics Network, and more.

What's New in Manufacturing

Unlocking Productivity and Taking Problem Solving to the Next Level of Speed and Performance for Manufacturers and Wholesale Distributors

Blue Yonder is augmenting its industry-leading supply chain planning optimization capabilities with the launch of its first cognitive planning solution - **Cognitive Demand Planning**.

Explore our latest products and exciting updates to our extensive catalog of offerings, including Integrated Demand and Supply Planning for Industries, enhancements across Warehousing, Transportation, Logistics Network, Commerce, and Control Tower, and more.

What's New in Logistics

Delivering End-to-End Visibility and Cost Savings for Fulfillment and Logistics

Blue Yonder is enhancing its **Warehouse Execution System** with advanced resource orchestration services across labor and robots.

The cost per hour of halted warehouse operations can easily exceed the million-dollar mark. Launching in 2024, always-on Warehouse Management builds upon Blue Yonder's industry-leading warehouse capabilities with upgrade-safe extensibility and zero downtime during upgrades to ensure warehouses will stay online and you can protect your customer experience.

Explore our latest products and exciting updates to our extensive catalog of offerings, including Transportation Manager, Warehouse Labor Management, Adaptive Fulfillment and Warehousing, Billing Management, and more.

Luminate® Cognitive Platform

[Solution Sheet](#)

Blue Yonder connects the breadth of its portfolio from supply chain planning and category management to commerce, warehousing, and transportation via the **Luminate® Cognitive Platform**. Customers who have adopted Blue Yonder's **Luminate® Cognitive Platform** have realized many benefits, including lower total cost of ownership through simplified integrations and reduced upgrade costs, faster time to value with platform extensibility and natively embedded infinite intelligence, lower average time to resolutions with always

on reliability, automated provisioning, alerts, and traceability, and increased SLA adherence.

Cognitive applications running on top of the **Luminate® Cognitive Platform** get supercharged by tapping into key capabilities including a unified data model, embedded AI & ML, workflow extensibility and end-to-end interoperability to drive better business performance, from increased sales and customer satisfaction to reduced waste and lower transaction costs.

Luminate® Cognitive Platform delivers the following:

- **Secure, high performant architecture, and foundational SaaS services**, including enhanced observability, security and auditing, reliability, and cost management to mitigate risk while reducing cost for IT organizations.
- **Upgrade-safe platform extensibility**, which eases integration efforts and empowers customers and partners to extend and configure workflows, data models and functions as needed – worry-free.
- **Common data model and simplified data management**, which reduces cost, complexity, and time required to transform and share data while improving collaboration and enabling interoperability.
- **Robust reporting and analytics services** standardize reporting across the entire supply chain, leverage a single, holistic data source, and empower users to self-serve.
- **Unified user experience across all solutions** with API management, authentication, and authorization.

End to End Integration Enables Blue Yonder's Composable Journeys

Whether migrating from on-premise to the cloud or upgrading to the next generation of solutions, Blue Yonder is empowering its customers to digitally transform their supply chains at the speed and scale that's right for them.

Blue Yonder is unlocking 12X value creation by helping customers develop personalized roadmaps for adopting the latest innovation, including our new cognitive applications. These composable microservices each offer a discrete set of capabilities, seamlessly integrate on connected workflows to solve specific functional needs, and will interoperate with existing Blue Yonder solutions, so businesses can innovate without the need to rip and replace existing investments. With Blue Yonder, businesses can start with the application stack they need today knowing they can easily add capabilities they want when they're ready. And instead of lengthy monolithic projects, Blue Yonder's Composable Journeys deliver implementation paths tailored to the specific vision and budget of each customer, rolled out in phases.

Leveraging both **Luminate® Cognitive Platform** and microservices-based architecture, Blue Yonder is revolutionizing the way technology is adopted. With Composable Journeys, customers will now be able to more readily capture the benefits of new functionality across solutions and leverage these alongside current capabilities to realize greater value, faster.

End to End Solutions

We are thrilled to announce the launch of our first set of end-to-end solutions.

Synchronize Execution Across Warehouse, Transportation, Order, and Resource Domains

[Solution Sheet](#)

With integrated processes, you can achieve seamless optimization and orchestration of orders, space, movement, inventory, and resources across all logistics systems and nodes. Synchronized execution uses advanced visibility and insights across warehouse, transportation, order, and resource management systems to expedite and strengthen supply chain resiliency. This advanced interoperability:

- Enables superior performance and removes latency and sub-optimal decisions.
- Achieves ecosystem extensibility that unifies data, suppliers, partners, organizations, and systems.
- Makes possible a flexible and adaptable journey to changing business needs.

Generate Incremental Supply Plans in Sync with Demand

By bringing together Demand Planning and Supply Planning, Blue Yonder is enabling a Composable Journey, allowing customers who have invested in Blue Yonder's planning solutions to upgrade to the next generation of cognitive planning solutions. This also enables customers to start using Blue Yonder's next-generation Cognitive Demand Planning solutions alongside their existing Enterprise Supply Planning to:

- Synchronize supply with demand in near-real time.
- Reduce excess inventory and associated costs.
- Improve customer service levels and optimize satisfaction.

Maximize Forecast Accuracy and Boost Planner Productivity

With seamless interoperability across Cognitive Demand Planning and Demand Edge, you can supercharge your supply chain planning with the power of extensible and explainable AI and ML. With new capabilities like Autonomous Mix & Match, planners are empowered to bring together statistical

forecasting, Blue Yonder AI/ML, and your own AI/ML - all in a single planning solution, to handle more complex demand patterns. With real time ML simulation, planners are enabled to make real time simulation based on causal changes and how it impacts the forecast and revenue, like what-if on price, promo, or any extended causals. These capabilities help to:

- Manage complexity while boosting forecast accuracy.
- Reduce inventory, resulting in the reduction of waste and inventory carrying costs.
- Improve planner productivity.
- Optimize customer satisfaction.

Retail Planning & Category Management

Cognitive Merchandise Financial Planning

Cognitive Merchandise Financial Planning is a new approach to the mature discipline of merchandise financial planning, offering a connected and user-friendly AI-led approach to merchandise planning. Built on Blue Yonder **Luminate® Cognitive Platform**, **Cognitive Merchandise Financial Planning** aims to simplify the planning and decision-making processes while introducing on-demand what-if scenario analysis, driving increased productivity and efficiency opening up opportunities for new ways of working. **Cognitive Merchandise Financial Planning** provides the ability to intelligently:

- **Optimize Inventory** to dynamically calculate volume of inventory that can be purchased at any one time based on network capacity and planned sell-through, while accounting for markdowns.
- **Increase Margin** thereby increase revenue and reduce waste through improved forecasting and reduce fulfillment costs by aligning fulfillment and inventory in advance.
- **Increase Planning and Forecast Accuracy** to increase sales, reduce markdowns, and network inventory with improved forecasts across categories and segments.
- **Provide Faster Time to Value** by delivering faster and higher returns with planning tools that transform process and deliver results in record time by combining powerful data insights with industry-leading analytics.
- **Orchestrate the Decision Making Process** by configuring and executing the processes and milestones across different functions and roles such as finance, merchandise, and planning, and improving the organization's efficiency in making decisions.

Cognitive Merchandise Forecasting

Used alongside **Cognitive Merchandise Financial Planning**, **Cognitive Merchandise Forecasting** offers the ability to intelligently seed a merchandise plan with causals such as events, holidays, day of the week, promotional prices through a combination of statistical and machine learning forecasting, resulting in a sales forecast at aggregated levels for preseason and in-season planning. Mix and match forecasting algorithms find the best approach to:

- Maximize forecast accuracy.
- Reduce on hand inventory.
- Improve customer service levels.

Blue Yonder Orchestrator

Blue Yonder Orchestrator brings together generative AI and Large Language Models (LLMs) to redefine the way users interact with our planning suite of products. It offers:

- **Conversational Interface** that helps engage with the planning suite of products in a more natural and intuitive way. Initiate conversations, ask questions, and receive insightful responses in real time.
- **Versatility in Communication** by comprehending a wide range of queries, enabling seamless communication on diverse topics related to knowledge documents and customer-specific data.
- **Context-aware Responses** that help maintain context throughout a conversation, providing more coherent and relevant responses.

Intelligent Allocation

[Solution Sheet](#)

Previously available as **Luminate Allocation**, **Intelligent Allocation** efficiently translates store performance and preferences into optimized store distributions across a product's lifecycle, and now offers:

- **Bulk WorkList Edit** provides the ability for a user to edit necessary fields concurrently on one or more WorkList lines to support applying updates for related merchandise distributions, scheduled allocation configuration, or provide details to downstream systems.
- **Status Notification Actions** provide the ability for a user to take actions based on status notifications for distributions instead of requiring a user to go back to the WorkList to take follow-up action.
- **Distribution Type Identification** helps a user distinguish between the results of scheduled distributions vs user-initiated distributions for review and analysis.

- **Server Status Information** allows the user to be aware of the server status so that they can know when to expect the distributions to complete.

This product release will be available in production by the end of January, 2024.

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Clearance Price

[Grocery Solution Sheet](#) | [Hardlines Solution Sheet](#) | [Softlines Solution Sheet](#)

An intelligent assistant to isolate price elasticity and recommend optimized strategy-led store and channel level price changes now offers:

- **Approval Flow for Price Recommendations** enables role-based setup to make changes to prices suggested by the system and manage relevant statuses by taking appropriate actions such as override, accept, reject, and recall.
- **Future-only KPIs** allow the user to see the most relevant KPI in the workbench and strategy analysis tables as cumulative, starting from today's date and perceive the impact of their today's strategy decision on the future.
- **Snapshot of the Initial Markdown Plan** allows financial planning, plan budget to request vendor funding, track performance against the plan, and monitor accuracy.
- **Collection Optimization** allows users to define a select collection of products to be treated and marked down in correlation with joined products (such as multiple colors and sizes of the same t-shirt or various sizes of handbags that may be at different original prices).

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Replenishment for Retail

[Solution Sheet](#)

Replenishment for Retail is a turn-key service that has been designed and configured using the best practices that Blue Yonder has identified during its engagements over many projects to encompass:

- **Store Level Replenishment Planning** to maximize service level while minimizing shelf level out of stocks.

- **Distribution Center Level Replenishment Planning** to optimize purchase order quantities and minimize inventory in the retail chain.

Replenishment for Retail helps retailers more effectively manage their replenishment planning operations and vendor orders.

This release will be available in production by the end of January, 2024.

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Supply Chain Planning

Cognitive Demand Planning

Cognitive Demand Planning is a cloud-native, microservices-based SaaS solution for demand forecasting and planning. It brings together Blue Yonder's market-leading planning technology and IP with the latest cloud technology from Microsoft and Snowflake to deliver higher plan accuracy, more relevant AI-driven insights, and a better planner experience, leading to increased revenue, higher profitability, and more savings through inventory and waste reduction across the supply chain, offering the following key capabilities:

- **Demand Predictions** leverage time series forecasts for future demand, empowering enterprises in distribution, manufacturing, materials, and transportation planning.
- **Mix and Match Model** improves forecast accuracy and boosts productivity by intelligently applying the best combination of methods for forecasting, selecting from statistical forecasting, Blue Yonder's market-leading ML, and customer's proprietary algorithms.
- **Demand Planning Reports** enable users to track KPIs such as bias and accuracy across periods, to track changes in forecast across periods, to forecast value-add created by various stakeholders, and to show the forecastability across item-location-channel segment. User data is secured through role-based access control and worksheet views are tailored to specific roles.

Cognitive Demand Planning includes the following add-ons: Cognitive Consensus Planning and Cognitive ML Forecasting.

Cognitive Consensus Planning

Blue Yonder's **Cognitive Consensus Planning** is an add-on to **Cognitive Demand Planning** and offers a user-friendly Multi-Dimensional Analysis

Worksheet with in-memory architecture, providing a consolidated view of demand planning related information. This feature-rich tool not only enhances collaboration and consensus building but also provides a secure and role-specific environment for effective demand planning and offers:

- **Collaborative Workflows** enable consensus demand planning among marketing, sales, and operations teams, accommodating various internal and external input sources.
- **Multi-Dimensional Analysis Worksheet** allows for both broad and narrow views at hierarchical levels, facilitating analysis of statistical forecasts like top-down, middle-out, and bottom-up approaches. As an add-on to Cognitive Demand Planning, it equips users with consensus-building capabilities, including demand planning pivots, planning space, fast aggregation/disaggregation, real-time computation, graphs, exception workflows, user collaboration, and action workflows.
- **Role-Based Access Control** to secure user data and ensure information confidentiality. The worksheet views are tailored to specific roles.
- **Scenarios to Simulate Demand Plans** provide the ability to publish these scenarios into the live business plan based on provided user rights.

Cognitive ML Forecasting

Blue Yonder's **Cognitive ML Forecasting** is an add-on to **Cognitive Demand Planning** and offers advanced machine learning forecast services, including the following:

- **Configuration of Causal Factors** within the ML forecasting process, tailor the forecast method (ML model with given causals and hyperparameters) according to specific business requirements.
- **Forecast Generation Using Mix and Match Model** intelligently selects the optimal forecasting method from a combination of ML generated and configured external forecast inputs.
- **Easy Integration with Multi-Dimensional MaaS Worksheet.** When Cognitive ML Forecasting is executed in real-time, the services operate from a MaaS worksheet pivot, leveraging user-driven simulations by modifying causal values. This dynamic functionality empowers users to modify causal values to observe the impact on the forecasting outcomes within the MaaS worksheet pivot.
- **Real Time ML Forecasting** allows users to simulate the real time impact of causals on the forecast as scenarios, such as what-if on price, promotion, GDP, or any causals extended into the Blue Yonder ML Model.

Integrated Demand and Supply Planning for Industries

Integrated Demand and Supply Planning (IDSP) delivers one integrated enterprise plan, bridging demand and supply planning, to help identify and fill value leakages, increase speed, and increase agility to better manage market disruption and volatility. Customers can build resiliency, manage disruptions and exceptions, and improve customer service and revenue with a single end-to-end integrated supply chain plan, role-based workflows, and advanced planning analytics. With IDSP, companies gain the ability to orchestrate across their extended value network, augment their ability to plan and respond to disruptions and maximize business performance.

Leveraging our deep industry expertise, the Industry Cloud and IDSP capabilities have been purpose-built for with industry-specific, pre-configured planning use cases and workflows by persona, lowering the learning curve for customers and accelerating time-to-value, while enhanced, upgrade-safe extensibility ensures the solution can be further tailored to meet customer-specific needs. Proven machine-learning algorithms, glass box AI with clear explainability, intuitive use experiences, collaboration rooms, and industry KPIs and analytics all contribute to high growth, productive environments.

The following industry-specific offers are now certified on the Blue Yonder Luminate Cognitive Platform:

- [Integrated Demand and Supply Planning for Consumer Industries](#)
- [Integrated Demand and Supply Planning for Automotive and Industrial Suppliers](#)
- [Integrated Demand and Supply Planning for High Tech Electronics](#)

This release will be available in production by the end of January, 2024.

Workforce Management

Advanced Scheduling

[Solution Sheet](#)

A solution for store labor, offering forecasting, labor demand, schedule optimization, and shift management, now includes:

- **School Calendar** provides the ability for Site Managers to create or edit a school calendar when managing their minor employees. It provides greater control for managers to enable proper schedules for minors while avoiding any legislative problems with scheduling.
- **Shift Marketplace Prioritization** provides the ability to define the order of display for unfilled shifts under the self-service portal's, helping to fill the most important shifts first, to ensure better coverage.

- **Swap Shift Filters** were created to better select the day, time duration, job, and employee name when trying to find shifts to swap. This is important with larger sites that contain a bigger employee pool to help reduce clutter and provide a better user experience.

This product release will be available for download on December 12, 2023.

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Time & Attendance

[Solution Sheet](#)

A solution that captures time, tracks attendance, and categorizes hours for payroll, now includes:

- **Auto Extend Meals and Breaks** available within the nAPE Punch Processing engine ensures that employees take the full duration of their meals and breaks. Updates to the Punch Group API list have also included the fields in the Allocations tab.

This product release will be available for download on December 12, 2023.

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Omni-Channel Commerce

Analyst Workbench

[Solution Sheet](#)

Combining Blue Yonder's market leading technology and IP with Snowflake's powerful data management and analytics capabilities, **Analyst Workbench** provides a new experience to explore data, generate insights, and create workspaces and dashboards. It allows you to mix, match, and analyze data from any digital touch points from the supply chain execution ecosystem to take informed decisions and actions to enable:

- **Metrics Visualization** capabilities with out-of-the-box dashboards and customized dashboards.
- **Extensibility** of metrics/dimensions.
- **Custom Report Creation** by slicing and dicing of data by different dimensions.

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Commits Service - Unified Commerce Simulator

Unified Commerce Simulator, offered as an add-on to **Commits Service**, is a powerful digital twin tool that empowers businesses to create, analyze, and refine fulfillment sourcing strategies driving more predictable fulfillment results. Optimization levers can be manipulated and then simulations run against production data to enable comparisons between actual output versus output using the changed levers. The solution offers:

- **Exploration Sandbox** is a safe and controlled environment to explore an unlimited number of fulfillment sourcing optimization scenarios.
- **What-if Scenario Testing** enables businesses to test multiple what-if scenarios and explore infinite possibilities tailored to their unique needs and strategies. This means they can push the boundaries of sourcing efficiency and uncover opportunities for improvement.
- **Probabilistic Modeling** performs complex analysis enabling businesses to see the consequences of decisions in real-time and understand how adjustments in one area impact others. This empowers informed decision-making allowing businesses to choose trade-offs that align with their priorities and risk tolerance.

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Commits Service – Enhancements

[Solution Sheet](#)

Commits Service provides real-time sourcing with location and fulfillment option selection pre and post order capture and the ability for customers to select optimal fulfillment options for omni-channel orders minimizing costs and improving service levels. The following enhancements have been made:

- **Transfer Order** has been enhanced to support partial quantity transfers when the required quantity is not available at the anchor location or one of the transfer options. This will also enable Commits to propose more than one transfer for a line from different locations.
- **Rebalancer** allows retailers to handle supply and demand disruptions by reallocating already allocated demands to a more suitable supply. Rebalancing allows businesses to look for alternatives before backordering if supply is canceled or delayed and to allocate demand to better supplies if the supply comes early or a new supply shows up.

This product release will be available in production by end of January, 2024.

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Pulse AI

A suite of machine learning-powered solutions enables rapid and scalable ingestion of data and model inference to dynamically predict safety stock levels for products at stores and fulfillment locations. Businesses can profitably promise and commit e-commerce customer orders without impacting the availability and service levels for in-store shoppers. New enhancements include:

- **Dynamic Safety Stock** reports in the dashboard show the performance of business KPIs (Pick Decline, Availability%) over time and provide a drill-down functionality into KPIs. Users can also visualize the predicted impact of different configurations (threshold confidence and exposure fraction) on the safety stock value.
- **Override UI for Dynamic Safety Stock** provides a front-end to create an override, select attributes, and submit the manually entered values for safety stock. Overrides can be defined at the SKU-location-channel level, which enables users to enter a predefined safety stock rather than using the ML-predicted safety stock.
- **Dashboard – Stockout and Markdown** show the performance of business KPIs (Potential Sales Loss, Stockout Avoided, Markdown Savings, Markdown Avoided) over time and provide a drill-down functionality into KPIs. Users can visualize the predicted impact of different configurations (threshold confidence and stockout probability) on the stockout date and make informed decisions.

This product release will be available in production by the end of January, 2024.

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Order Services – Customer Order Visibility

[Solution Sheet](#)

Customer Order Visibility is offered as an add-on to **Order Services** and allows enterprise users to gain visibility to e-commerce orders as they move through the fulfillment lifecycle. It now offers the following capabilities:

- **Order Allocation Tracking** ensures the accuracy and efficiency of order fulfillment and provides valuable insights for strategic planning and continuous improvement within the supply chain. It provides real-time visibility into the status of order allocation, improves customer experience, with transparency about the order status, and enables enterprises to analyze historical data on order allocations, identify patterns, and generate reports.

- **Return Order Invoice** is a crucial document involving the return of goods. When customers contact customer care to inquire about a return, having access to the return order invoice allows customer service representatives to address customer queries quickly and accurately. They can verify details, such as the items being returned, reasons for return, and any associated refund or replacement information. This helps in keeping accurate financial records and ensures customer satisfaction.

This product release will be available in production by end of January, 2024.

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Order Services - Enhancements

Order Services manages the lifecycle and end-to-end workflow of an order including order creation, modification, release to fulfillment locations, and returns. The latest enhancements include:

- **Batch Allocation** enables tenant-level configuration of time windows for grouping orders into a single batch group based on order entry time, schedules the frequency of runs, identifies failed records in a batch run, and re-processes those failed records. It enhances operational efficiency in high-volume order fulfillment scenarios, allows more efficient pick and pack, and tracks the movement of inventory between batches to ensure up-to-date actual availability of products.
- **General Rules** are configurable from the UI, such as Scheduled Wait Task and Workflow Determination. The user-friendly interface makes it easier for non-tech users to set up the rules, reducing the reliance on technical expertise.
- **Exchange Order Configuration** provides the ability to configure the exchange process in different ways, such as starting the journey on full product receipt, partial product receipt, or immediate initiation based on business goals.
- **One-Click Deployment** simplifies the deployment process by automating the steps involved, making it easier and faster to deploy changes across environments. One-click deployment is available for Customer Order Visibility UI and other UI components (Orch/Config).
- **B2B Profile Support** caters to larger payloads or large orders at a constant rate. The capability is currently certified for up to 1 tps order and 3,000 average line orders.

This product release will be available in production by end of January, 2024.

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Inventory Service – Enhancements

[Solution Sheet](#)

Inventory Service provides real-time and predictive visibility of inventory availability across your network, including DCs, Warehouses, Stores, MFCs, Drop Ship vendors, etc., and provides a web-based view of Inventory Positioning across your extended supply chain. The following enhancements are now available:

- **Inventory Availability** provides a foundation for customers to promise omni-channel orders in real-time without undersells, oversells, and other customer service issues. The solution has been enhanced to improve performance by replacing rest template with web client and entry processor with callable in read cluster.
- **Inventory Visibility** now supports enhanced application search to support searching multiple SKUs allowing users to view inventory and ATP for different sizes, styles, etc. for the same product at the same time.

This product release will be available in production by the end of January, 2024.

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Warehouse Management

Warehouse Execution System

[Solution Sheet](#)

The solution for warehouse execution introduces advanced near real-time decision-making models, enhancing warehouse operational efficiency by seamlessly integrating existing infrastructure and providing flexible, scalable solutions tailored to diverse warehousing needs, now offers:

- **Improved Task Interleaving/Tour Building** and ML-driven predictive analytics ensure optimal resource utilization and reduce manual intervention by leveraging ML goal-times.
- **Simplified AMR/Robotic Implementation** with standardized use cases and routes tasks to vendor or human workers prioritizing tasks across the entire workforce with improved communication.
- **Increased Operational Efficiency**, the cost based dynamic task assignment functionality significantly improves warehouse operations by taking users proximity as well as priority into the assignment decision

making, directly translating to higher throughput and reduced labor travel.

- **Scalability and Flexibility**, with fast and enhanced integration capabilities, Warehouse Execution System adapts to varying warehouse sizes and types, ensuring scalability and alignment with business operations, vital for businesses aiming for growth.
- **Data Driven Insights**, the incorporation of predictive analytics, such as ML Goal Time, aids in anticipating operational challenges, enabling proactive measures. Better resource orchestration and task prioritization offers a competitive edge against anyone using standard methodologies. The data used to train the ML models are specific to the site they are deployed at, and therefore fully unique to the customers' operational requirements.

This product release will be available in production by the end of January, 2024.

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Adaptive Fulfillment and Warehousing

[Solution Sheet](#)

A next generation SaaS Warehouse Management and micro-fulfillment solution built on **Luminate® Cognitive Platform** enables the highest possible flexibility for future operations to better compete in the digital age of increasing customer expectations. Allowing work in one version less solution, with all the answers from relevant services in labor, warehouse execution system, transportation, and pick-pack-ship. It now offers:

- **ABC Counting** enables a prioritized cycle counting process that automatically determines the items and locations that need to be counted daily. This allows users to focus on their most important items and ensure accurate inventory where it matters the most.
- **Outbound Audit** provides an optional validation process on the outbound shipments to ensure that customers receive the exact inventory that is expected.
- **Document and Label Reprinting** allows users to quickly and seamlessly find and print any previously generated label directly from their mobile device.

This product release will be available for download on December 12, 2023.

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Yard Management

[Solution Sheet](#)

Yards are often black holes for logistics service providers and shippers, consistently incurring high detention fees and driver and warehouse frustration through lack of automated management. Blue Yonder's **Yard Management System** is a purpose built and innovative solution, incorporating cameras, OCR, and machine learning to increase yard efficiencies and decrease detention and frustration. This solution now offers:

- **Innovative, Camera-Based System** for automated gate check and in-yard tracking to increase accuracy, offer time stamped entries to deter detention fees, and increase labor efficiency.
- **Native Blue Yonder Warehouse Management (WMS) Connectivity** from gate to yard to dock incorporates dock scheduling and appointments resulting in accurate routing of inbound trucks to the right dock, holding, or other areas within the yard as needed.
- **Visual Display of the Yard** via a yard map makes understanding the yard easy, and real-time statuses of equipment and trailers within the yard make it easy to proactively avoid detention and quickly find trailers based on precise locations within the yard.
- **Artificial Intelligence and Machine Learning** allow the system to evolve for improved speed and accuracy (Cognitive).
- **Increased Visibility to Inventory Statuses** and greater coordination with the warehouse help with effective dock scheduling and unloading.

It can be deployed as a stand-alone solution or with Blue Yonder Warehouse Management System.

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Warehouse Labor Management

[Solution Sheet](#)

An extensive labor scheduling and reporting solution, designed to help management personnel maximize employee performance and facility operation through improved planning, workload balancing, real-time feedback, and productivity reporting. The solution now offers:

- **Variable Standard Productivity Rates** to enable configuration and automatic pre-scheduling of productivity standards for various seasons and times of day, minimizing manual adjustments, and applying the right standards at the right times.
- **User Interface** that migrates user and schedule operations screen to the Web, reduces dependency on client installs for supervisor's daily user maintenance activities.

- **Updated Safe Extensibility** provides the ability to extend the Warehouse Labor Management system through our business logic hook points protected by APIs, enhancing resilience during updates. It utilizes APIs for faster data integration, retrieving goal times for planned tasks, daily user maintenance activities, and more.

This product release will be available for download on December 12, 2023.

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Warehouse Management

[Solution Sheet](#)

A highly configurable, packaged **Warehouse Management** solution that provides end-to-end inventory tracking and control, including powerful raw materials and work-in-process management and finished goods processing. The solution is an independently recognized leader in Warehouse Management, delivering comprehensive capabilities from yard to final shipment. It now offers:

- **Reports Service** which is a modern report building service to automatically produce your compliant paperwork like Bill of Ladings, Packing Lists, End of Shift Reports, etc.
- **Update Safe Extensibility** which extends the Warehouse Management Solution via our business logic hookpoints protected by APIs to provide more resilience to your warehouse operations during updates.

This product release will be available for download on December 12, 2023.

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Billing Management

[Solution Sheet](#)

This SaaS Solution is a complete, flexible, and powerful Logistics Billing solution which is highly configurable to allow complete flexibility when defining a billing process requirement. The solution now offers its users the ability to:

- **Extend Allowable Update Rules** address the short-comings of legacy input systems by changing input data under specific business rules.
- **Add Soft Filters** improve the user experience significantly with more responsive screens and appropriate information displayed.
- **Migration Scripts - Test to Production** improve configuration quality in the production environment by completing the setup and testing in the test environment.

- **Tooltips** enhance user experience and drive faster adoption by customizing tooltips based on your business context.

This product release will be available in production by the end of January, 2024.

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Transportation Management

Transportation Manager

[Solution Sheet](#)

A solution designed to execute, manage, and monitor the entire transportation execution lifecycle. The solution enables proactive monitoring and intelligent exception management and synchronizes critical execution processes for optimal cost and service performance. The solution now offers:

- **Container Level Tracking** for Loads helps users initiate tracking at a container level at a Carrier-Service level. Container level tracking (at Shipment Leg Detail) is initiated upon Load tendering. Events from carriers can be consumed through Carrier Collaboration at container level. TMIC is enhanced to apply container level tracking updates to shipment leg details on built loads.
- **Freight Bill API** can be set up for one or multiple loads. Carrier Collaboration now consumes Freight Bill API from carriers. Summary level and multi-freight class charges are supported.
- **Booking Revision and Transshipment Ports** are now enhanced to capture the Pre-Carriage, On-Carriage, and Transshipment information that is received from Carriers. If the booking revision indicates changes to origin port, destination port, departure location, arrival location, departure/arrival date and/or time, and transshipment location (i.e., in case of port-to-port with transshipment, port-to-door, door-to-port, door-to-door), these changes will be stored on the load schedule of the booking load. Booking revisions can now capture Ocean Bookings' Transshipment related details such as Main and Feeder vessel/voyage information.
- **Fleet Dispatcher is a new Native SaaS UX** with a modern look and feel for Fleet Management. Built for a Dispatcher persona, Fleet Dispatcher provides a highly interactive user interface to enable integrated transportation and fleet asset management and dispatch. The streamlined visual interface, including timeline views and maps with

visible routing and statuses, makes scheduling easier for dispatchers, reducing dispatcher stress, burnout, and turnover. This new interface will improve asset utilization and fleet management for primary, secondary, last mile distribution and driver management. This will help improve planning and dispatch operations efficiency. The Fleet Dispatch feature is being tested with lighthouse customers and will soon be generally available.

This product release will be available for download on December 12, 2023.

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Transportation Planner

[Solution Sheet](#)

A solution designed to transform order fulfillment, procurement, and replenishment plans into cost-optimized transportation plans using configurable business rules that adhere to facility, inventory, and transportation network constraints, now offers:

- **PC*Miler WebServices API:** Transportation Planner and Transportation Modeler support PC*Miler WebServices API as a distance engine, an opt parameter will enable fetching distances for each load/trip directly from PC*Miler Web API at the end of RR/OPT requests. During writeback, Transportation Planner includes a list of updated distance and time values as a batch so that Transportation Modeler can update the cache entries.
- **Stacked Cylinders** when they are on interleaved cylinder lower level, the solution allows the ability to stack on top of nested standing cylinders, sequencing based on rail car, not tractor trailer. It also allows for no stacking at the side door above the floor loaded cylinders.
- **Steel Industry Support:** The steel industry has specific requirements, new parameters have been added in Transportation Planner to support the separation between products for securing and latching, stability driven stacking by equipment, loaded meters vs. axle balancing and LIFO at stack level.
- **Project44 (P44) Rating Integration:** This has been enhanced to retrieve LTL rating results when shipments have multiple shipment details with different freight classes.

This product release will be available for download on December 12, 2023.

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Transportation Optimization

This solution is a standalone optimization product that provides input scenarios, rates route schedule, optimizes plan, and exports a load plan to the user. This solution offers:

- **Easy-to-Use Transport Planning** provides an easy-to-use optimization capability that includes consolidation, mode shifting, and fleet planning.
- **Fit-for-Purpose (Microservice Construct)** enables stand-alone deployment and does not require other systems (such as Core Transportation Management System) for this solution to provide value.
- **Interoperable Framework** enables integration with Blue Yonder's Transportation Management System, Warehouse Management System, and Order Management System in the long term.

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Freight Order Management

A supplier collaboration solution that enables real-time/centralized tracking of the entire inbound delivery process. It captures requests for dynamic routing and shipment confirmation, while issuing electronic routing instructions. The solution now offers:

- **Fraction Value for Pallet and Case Count:** Users can choose and enable decimal values for Pallet count and Case count. The system will then evenly distribute Pallet/Case counts from shipment header to delivery orders. This also enables fractional pallets and cases.
- **Dropdown Name Filter in PO Manager and Shipment Manager:** A new System setting is implemented to disable the filter name Dropdown in PO and Shipment Screens. This ensures the privacy of filter results among Supplier Enterprises users.
- **ASN Additional Mapping:** The ASN message now includes three additional mappings: Item Number, Bill of Lading Number, and Shipment Number. This ASN aligns with the needs of Warehouse Management System.
- **API for Item Master** helps in creating, updating, and deleting Item Master records.
- **Enhanced API for Purchase Order Updates:** The processPurchaseOrderUpdate API has been enhanced to control and validate updates to specific Purchase Order Line Items. This restriction applies when the req_earliest_delivery_date and req_latest_delivery_date fields of an existing Purchase Order are

modified. The restriction is enforced if there exists a Shipment with a status of Confirmed, Scheduling, or Scheduled.

This product release will be available for download on December 12, 2023.

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Logistics Procurement

[Solution Sheet](#)

A solution that helps negotiate the best possible rates with considerations of the entire network within one unified SaaS to manage bid engagements. It includes automated rate procurement and contract management to ensure best rates.

Logistics Procurement now supports Delegation of Authority for Approvals. Carrier rates negotiated by the procurement organization can now be reviewed and approved by leadership based on the estimated level of annualized spend. There can be multiple levels of approval and approvers based on spend levels.

This product release will be available for download on December 12, 2023.

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Transportation Mobile User

[Solution Sheet](#)

The mobile app allows employees and carriers to monitor the progress of loads, stops to be visited, and shipments on each load. In addition, carriers can provide ETA updates, confirmation of stops, and tender acceptance and rejection. The solution now offers:

- **Driver Offline Support** for operator activities like refueling, sleeping, etc. to be reported when the driver is offline and support for skip delivery at a stop in offline mode.
- **SAML** which provides Single Sign On support for SAML authentication.

This product release will be available for download on December 12, 2023.

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Business Analysis for Transportation

A web, Excel, and mobile based business intelligence and data mart tool for **Transportation Manager** and **Transportation Planner**, now offers Industry

Standard VICS BOL report that allows Transportation Manager to generate VICS compliant standard Bill of Lading at different levels like Shipment, Load, and Stop.

This product release will be available for download on December 12, 2023.

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Control Tower: Visibility, Collaboration & Network

Control Tower Visibility

[Solution Sheet](#)

This SaaS solution provides visibility, orchestration, and control across an enterprise's order-to-cash business process, including visibility into demand, sales orders, shipments, and inventory. With end-to-end enterprise visibility, Blue Yonder helps businesses visualize the entire flow of goods across suppliers, factories, distribution centers, distributors, sales channels, and customers. Tapping into the single data model, **Blue Yonder Control Tower Visibility** can create more accurate views that capture real-world market conditions.

Blue Yonder provides a far more holistic end-to-end solution than our competition, spanning planning, procurement, and fulfillment. Rather than stitching together capabilities, leaving gaps in visibility, **Blue Yonder Control Tower Visibility** offers seamless visibility to identify everything from possible finished goods delays to weather disruptions, empowering our customers to pivot quickly and with more confidence.

This product release will be available in production by the end of January, 2024.

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Purchase Order Collaboration

Purchase Order Collaboration enables collaboration between Buyers and Suppliers for managing new or revised POs. Once the Buyer creates a PO and it is published in Control Tower Visibility, the Supplier receives a notification about the Order and can either confirm or reject it. If the Supplier confirms the Purchase Order, they can specify the confirmed quantity and confirmed date and can add delivery schedules at the Order Line level. At any point of time, the Supplier can revise or cancel their confirmation.

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Advanced Shipment Notice (ASN) Collaboration

Advanced Shipment Notice (ASN) Collaboration provides an easy to use interface that enhances PO collaboration and helps with the creation of ASNs. Once Purchase Orders are confirmed by the Supplier, users can create a consolidation plan (as an optional step) then create ASNs directly via the application. Once the ASN is generated, the system will egress them to external ERP systems from the Luminate Cognitive Platform, via APIs. Onboarded Supplier users will get alerts for important collaboration events like updating actual shipment details and Shipping document verification. The Document repository, which offers upload and audit capabilities, helps with managing Shipping documents and maintaining reference documents with Shipping instructions.

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Risk Manager

[Solution Sheet](#)

Risk Manager identifies threats and vulnerabilities across the complex global supply chain network, including suppliers, ports, inventory locations, stores, cross-dock facilities, and other operating nodes. It gathers data from internal and external sources, then applies advanced data science and predictive analytics to transform this unstructured data into strategic insights. It then assigns quantitative, weighted scores to every supply chain partner and node based on its risk factor, turning invisible disruptions into predictable events - before they impact production, fulfillment, and delivery. It enables users to:

- Predict the impact of cost and shipping.
- Maintain supply chain resiliency.
- Keep a pulse on supplier health.

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Doddle Acquisition

Returns and Reverse Logistics Management

Blue Yonder recently announced the acquisition of Doddle, a leading technology business focused on making the first and last mile more seamless, sustainable, and profitable. This acquisition provides Blue Yonder with a delivery, returns, and reverse logistics management solution that provides last-mile visibility with pick-up and drop-off (PUDO) functionality. This creates a differentiated, full-suite offering to support retail and logistics service providers with superior customer experience and execution capabilities across Order Management, Warehouse Management, Transportation, and Returns.

The Doddle business has both physical and digital capabilities that make e-commerce delivery and returns work better: smoother for consumers, more efficient for merchants, more efficient for carriers, and more sustainable for everyone. With offerings including digital returns initiation, returns orchestration including international requirements, returns routing, in-store processing, and warehouse processing, the Doddle solutions help retailers and carriers deliver great customer satisfaction, more efficiently and profitably. In addition, the Doddle self-service return kiosks and pick-up, drop-off (PUDO) networks perfectly complement Blue Yonder's existing suite of retail, order management, and logistics capabilities.

Doddle's approach to returns is extremely differentiated in the market, offering new methods to reverse logistics by providing capabilities around self-service kiosks and tools to support third-party hubs, ultimately allowing companies to monetize their network to support returns for other retailers and merchants.

Doddle serves more than 900 retail and logistics customers by optimizing and simplifying their first and last mile—an ever-present challenge for carriers and retailers, given the abundance of consumer returns.

[Learn More About Doddle](#)

[Learn More About Blue Yonder Solutions](#)

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