Infor Nexus

DATA SHEET

Infor Nexus Transportation Planning & Optimization

In today's dynamic supply chain landscape, a robust transportation planning solution is essential for addressing real-world challenges such as supply chain disruptions, high transportation costs, regulatory compliance, market volatility, scalability, and collaboration inefficiencies. Real-time visibility and tracking are crucial for enabling prompt responses to delays, while advanced algorithms optimize routes and loads to reduce costs and transit times.

These solutions offer the flexibility to adjust plans quickly in response to disruptions and leverage predictive analytics to forecast and mitigate risks. Enhanced collaboration ensures seamless communication among stakeholders, managing costs and maintaining compliance with regulatory requirements. Efficient planning helps maintain optimal inventory levels, preventing costly overstocking or stockouts. Ultimately, a transportation planning solution enhances supply chain efficiency and resilience, enabling organizations to better handle disruptions and maintain continuity.

The Infor Nexus™ Transportation Planning & Optimization solution leverages cutting-edge algorithms and scalable computing power to optimize every facet of transportation logistics—mode selection, carrier allocation, route planning, and equipment assignment.

By ensuring on-time deliveries at optimal costs, it empowers businesses to navigate capacity limitations and dynamic market conditions with confidence and precision.

The solution's self-learning capabilities and next-generation algorithms continually refine transport plans, uncovering novel solutions that human analysts might overlook. This comprehensive approach not only improves operational efficiency but also drives significant cost savings and enhances overall supply chain performance.

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Infor Nexus Transportation Planning & Optimization capabilities

Self-learning

- Traditional transport planning software begins by analyzing and establishing business rules to devise optimal strategies. In contrast, the Infor Nexus engine adopts a self-learning approach, entering each planning task with a blank slate
- Only the most basic facts, such as equipment types and location IDs, need to be established upfront. This flexibility allows the engine to learn and adapt continuously, uncovering innovative solutions from the vast pool of Infor Nexus customers' experiences
- The self-learning engine can identify edge cases and opportunities beyond human analysts' attention, ensuring more robust and adaptive transport plans

Next-gen algorithms

- By enhancing the base layer of computing power, Infor Nexus opens up unprecedented possibilities for disruption and innovation in transport planning
- Leveraging computationally intensive but highly effective algorithms, Infor Nexus outperforms traditional linear programming and fixed server approaches
- The solution is built from the ground up using the latest optimization and software design principles, ensuring superior performance and adaptability

Computing power

- Unlike traditional transport planning engines, which rely on a fixed number of CPU cores, Infor Nexus is built on the principle of scalable computing. CPUs can be added or removed within seconds, providing clients with flexible and responsive computational resources
- This scalability ensures that clients receive exactly the amount of computing power they need, optimizing performance and cost-efficiency

Key features of Infor Nexus Transportation Planning & Optimization

True multi-leg, multi-mode rating, planning, and visibility

Optimize carrier, route, and equipment selection

This feature allows organizations to optimize their transportation decisions by selecting the best carrier, route, and equipment based on a variety of factors. By considering freight rates, equipment utilization, weight breaks, allocations, and transit times, businesses can make informed decisions that minimize costs and ensure timely deliveries.

Manage approvals and create an audit trail

Approvals can be managed within the system, and a detailed audit trail is created to track all actions and communications. This ensures accountability and transparency throughout the transportation planning process, making it easier to trace decisions and actions taken.

Electronically communicate transport plans

Transport plans can be electronically shared with partners, ensuring all stakeholders are informed and aligned; not only improving coordination but also reducing the risk of miscommunication between the company and its transport partners.

Automatically populate downstream processes

Once transport plans are finalized, they automatically populate downstream transportation execution and compliance processes, streamlining operations and ensuring that all necessary compliance and execution steps are completed accurately and efficiently.

Automated transportation planning for enhanced efficiency and cost savings

The solution automates various transport planning tasks, reducing the need for manual intervention, increasing efficiency by speeding up the planning process, and reduces costs by minimizing errors and optimizing resource use.

World-class optimization for agile supply chain planning

Leveraging advanced optimization techniques, the solution enables agile and flexible supply chain planning that helps businesses quickly adapt to changing market conditions, demand fluctuations, and supply chain disruptions.

Benefits

Bridged and automated processes
Bridges and automates order management, packing, and shipping processes to ensure seamless operations from order placement to delivery, reducing manual effort and errors.

Multi-party collaboration
Supports multi-party submission and approval processes for vendor bookings for enhanced collaboration and coordination among different stakeholders, improving overall supply chain efficiency.

Maximized utilization
Maximizes equipment utilization and measures allocation and carrier commitments ensuring that resources are used most effectively, leading to cost savings and improved service reliability.

Optimal consolidation
Ensures optimal consolidation of shipments and rationalization of service levels and modes, reducing transportation costs by maximizing load utilization and selecting the most efficient service levels and modes.

Balanced performance metrics
Measures optimal spend against on-time delivery, ensuring balanced performance metrics and providing a comprehensive view of performance, allowing businesses to balance cost efficiency with service quality.

By integrating these advanced capabilities, the Infor Nexus Transportation Planning & Optimization solution not only enhances operational efficiency but also fortifies supply chain resilience against modern disruptions, ensuring businesses remain agile, cost-effective, and ahead of the curve.

About Infor Nexus

Infor Nexus™ (formerly GT Nexus) is the leading global supply chain management platform that helps organizations disrupt supply chain inefficiency. It connects over 85,000 brands, retailers, manufacturers, suppliers, logistics providers and banks on a single, digital supply chain network to seamlessly orchestrate global processes from source to delivery and payment. With Infor Nexus, companies streamline their operations to eliminate inefficiencies and waste while gaining data-driven insights and optimizing flow of capital for an improved agile, sustainable, and resilient supply chain.

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Enhance supply chain resilience with Infor Nexus

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