

Transforming Food & Beverage Logistics

with SAP TM & SAP Business Network for Logistics (BN4L)

Building a connected, intelligent and collaborative transportation ecosystem for the future.



End-to-End
Visibility



Lower
Logistics Costs



Stronger Carrier
Collaboration



Smarter
Decisions



Compliance &
Traceability



Sustainable
Operations

Transforming Food & Beverage Logistics with SAP TM and SAP Business Network for Logistics (BN4L)

The Food & Beverage (F&B) industry is under increasing pressure to deliver products faster, fresher, and more cost-effectively while ensuring compliance, traceability, and sustainability. From temperature-sensitive transportation and fluctuating demand to rising freight costs and real-time visibility expectations, logistics operations in the F&B sector have become significantly more complex.

To address these challenges, organizations are increasingly adopting SAP Transportation Management integrated with SAP Business Network for Logistics (BN4L) to build intelligent, connected, and resilient transportation ecosystems.

As one of the leading SAP logistics implementation partners, PrimeS4 helps F&B enterprises modernize supply chain and transportation operations with SAP TM and BN4L solutions aligning industry best practices while catering to customer specific requirements.

Logistics Challenges in the Food & Beverage Industry

Food & Beverage supply chains are among the most demanding due to:

- Perishable and temperature-sensitive products
- Tight delivery timelines and shelf-life constraints
- High transportation and fuel costs
- Complex retailer and distributor networks
- Regulatory and compliance requirements
- Demand volatility and seasonal spikes
- Limited end-to-end shipment visibility
- Increasing sustainability expectations

Industry studies highlight that poor supply chain visibility, manual processes, and inefficient freight collaboration continue to impact operational efficiency in the F&B sector.

Traditional transportation systems often operate in silos, making it difficult to coordinate with internal departments for efficient freight planning and collaborating with external partners like carriers, suppliers, warehouses, and distributors in real time. This leads to delayed deliveries, reduced customer satisfaction, inventory losses, freight disputes, and increased operational costs.

1 LOGISTICS CHALLENGES IN FOOD & BEVERAGE INDUSTRY

Food & Beverage supply chains are complex and time-sensitive. Organizations face multiple challenges that impact efficiency, cost, quality, and customer satisfaction.



Overcoming these challenges requires an intelligent, connected, and collaborative transportation management solution.



Why SAP TM and BN4L

SAP Transportation Management along with Business Network for Logistics creates a strong and connected logistics platform enabling organizations manage efficient transportation planning, optimization, seamless carrier collaboration, freight settlement and invoicing, real-time freight tracking, tracing, and analytics with a unified ecosystem.

2 SAP TM + BN4L SOLUTION OVERVIEW

SAP TM integrated with SAP Business Network for Logistics (BN4L) creates a connected logistics ecosystem that enables real-time collaboration, visibility and smarter transportation management.



INTEGRATED | INTELLIGENT | REAL-TIME | COLLABORATIVE
A unified platform to connect people, processes and partners across the Food & Beverage logistics network.



Key Takeaway: SAP TM provides the intelligence to plan and execute transportation efficiently, while BN4L connects your extended network for real-time collaboration and visibility.



Better Decisions.
Lower Costs.
Higher Service Levels.

Key Capabilities

1. Intelligent Freight Planning and Optimization

SAP Transportation Management helps optimize:

- Order integration and consolidation
- Route planning
- Carrier selection
- Load planning, consolidation and de-consolidation
- Multi-modal transportation

Handling large-scale distribution networks, SAP TM significantly improves transportation utilization while reducing empty miles and optimizing resource capacity

2. Efficient management of Transportation Rates

SAP Transportation Management provides robust freight cost management:

- Freight Agreement and Contract Management
- Transportation Charges Management
- Freight Charge Calculation
- Freight Cost Distribution

Negotiating rates and handling transportation charges is of utmost importance to manage freight spend efficiently. SAP TM significantly improves management of transportation charges with agreements, calculation sheets, and rate tables as master data

3. Seamless Carrier Collaboration

SAP TM and BN4L simplify collaboration between shippers, carriers, freight forwarders, and logistics providers through a digital business network, key capabilities include:

- Freight Tendering, RFQs and carrier responses
- Freight order collaboration and award
- Freight bookings management
- Digital document and attachment exchange

Carriers and logistics service providers rely on fragmented systems to collaborate with shippers. SAP TM and BN4L help unify fragmented processes on a single digital platform for partners to collaborate efficiently.

4. Robust Freight Execution and End-to-End Transportation Visibility

SAP TM enables efficient delivery management with tight integration between cross functional modules like warehouse and yard management. SAP BN4L enables real-time tracking, tracing and monitoring events and milestones across the logistics network. Shippers gain visibility into:

- Advanced Shipping and Receiving (one-stop shop for warehouse and transportation operations)
- Pallets and package building
- Handling unit management (Pallets, cartons and packages)
- Shipment execution statuses (Goods issue, goods receipt)
- Delivery milestones (Departure, Arrival and Proof of delivery)
- Delays and exceptions (Truck breakdown, route deviation, temperature excursions)
- Carrier performance (on-time arrival, delays)
- Temperature-sensitive movement tracking (Cold chain, refrigerated or ambient)

Cross functional integration with other functions like delivery management, warehouse, global trade, customs declaration, environment, and health safety are improved. Over the road temperature monitoring is critical for refrigerated and perishable goods where delays directly impact product quality and customer satisfaction.

5. Freight Settlement and Invoice Accuracy

Freight cost leakage is a major concern for transportation-intensive industries like Food & Beverage. SAP TM with BN4L provides robust freight settlement and carrier invoicing features:

- Freight settlement and accruals
- Carrier invoicing and variances management
- Carrier invoice reconciliation
- Management of last minute or unplanned charges
- Dispute Management and multi-level approval workflow

SAP TM with BN4L significantly improves freight audit, invoicing, and governance processes by reducing invoice discrepancies and handling disputes efficiently.

6. Modern Compliance, Traceability, and Sustainability

Food & Beverage supply chains require strict adherence to regulatory standards and product traceability requirements. SAP TM and BN4L solutions help organizations achieve:

- Batch and handling unit level traceability
- Compliance monitoring
- Sustainability tracking
- Carbon footprint visibility
- Audit-ready transportation records

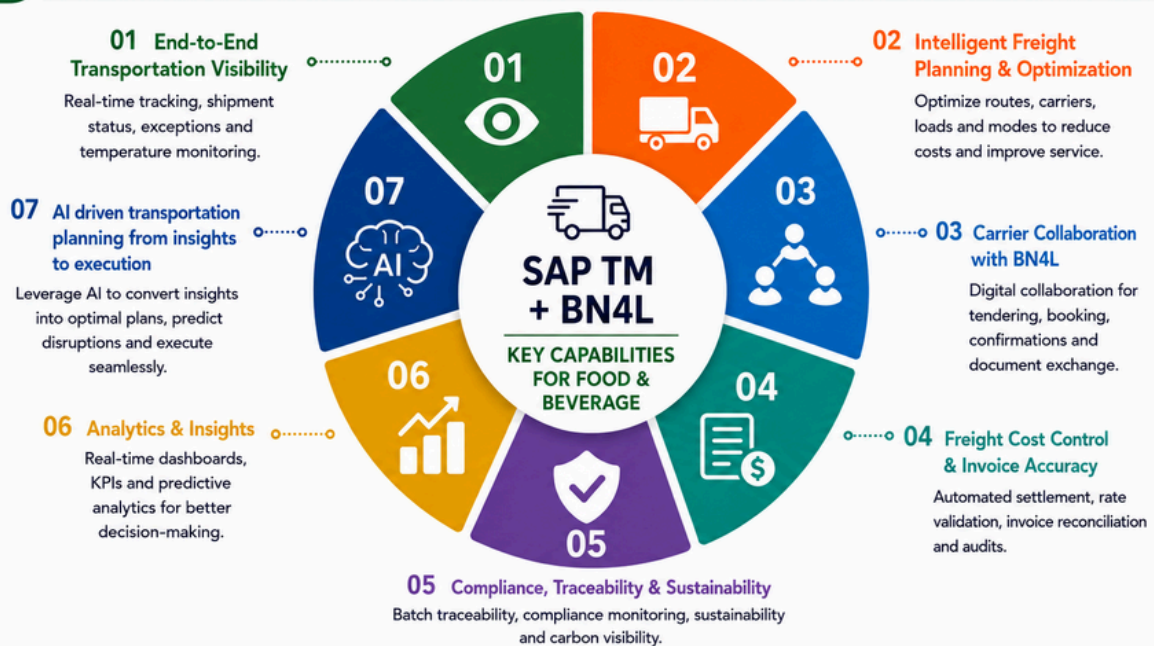
SAP TM with BN4L provides digital traceability and transparency that are essential across modern food supply chains.

7. Artificial Intelligence in SAP for logistics

SAP's Joule copilot is redefining how businesses benefit from modern AI-led technologies. SAP's Business AI platform harmonizes business network and relevant application-to-application functions by forming an AI powerhouse that enables companies to build no-code or low-code AI agents on the fly. Such AI agents help users gain insights in numerous use cases, viz.

- Conversational planning to plan shipments and optimize vehicle space
- Freight rate calculation based on historical data, seasonality and current market trends
- Carrier selection based on carrier performance metrics
- Provide actionable insights and key performance indicators
- Identify high-volume lanes and cost saving opportunities

3 KEY CAPABILITIES OF SAP TM AND BN4L FOR FOOD & BEVERAGE



These capabilities help Food & Beverage organizations build a resilient, efficient and transparent logistics network that delivers quality products to customers – on time, every time.











Business Benefits for Food & Beverage Organizations


By implementing SAP TM and BN4L, F&B companies can achieve improvements across:

4

BUSINESS BENEFITS AT A GLANCE


SAP TM and BN4L deliver measurable value across the Food & Beverage supply chain.

<div style="text-align: center; margin-bottom: 10px;">  <p>TRANSPORTATION PLANNING</p> </div> <ul style="list-style-type: none"> Optimized routes and load utilization Reduced freight spend and empty miles 	<div style="text-align: center; margin-bottom: 10px;">  <p>CARRIER COLLABORATION</p> </div> <ul style="list-style-type: none"> Faster communication with carriers Reduced manual effort and errors 	<div style="text-align: center; margin-bottom: 10px;">  <p>SHIPMENT VISIBILITY</p> </div> <ul style="list-style-type: none"> Real-time tracking and monitoring Proactive exception alerts and resolution 	<div style="text-align: center; margin-bottom: 10px;">  <p>FREIGHT SETTLEMENT</p> </div> <ul style="list-style-type: none"> Improved invoice accuracy and rate compliance Reduced disputes and leakage
<div style="text-align: center; margin-bottom: 10px;">  <p>INVENTORY MOVEMENT</p> </div> <ul style="list-style-type: none"> Better coordination across warehouses Efficient distribution to retailers and distributors 	<div style="text-align: center; margin-bottom: 10px;">  <p>CUSTOMER SERVICE</p> </div> <ul style="list-style-type: none"> Improved OTIF (On-Time In-Full) Higher customer satisfaction 	<div style="text-align: center; margin-bottom: 10px;">  <p>COMPLIANCE</p> </div> <ul style="list-style-type: none"> Enhanced traceability and audit readiness Alignment with food safety and regulatory standards 	<div style="text-align: center; margin-bottom: 10px;">  <p>SUSTAINABILITY</p> </div> <ul style="list-style-type: none"> Reduced transportation emissions Lower waste and more sustainable operations



STRONGER OPERATIONS. LOWER COSTS. HAPPIER CUSTOMERS. SUSTAINABLE GROWTH.

SAP TM and BN4L empower Food & Beverage organizations to run a smarter, more agile and connected logistics network.



- Transportation Planning: Optimized routes and load utilization; reduced freight spend and empty miles
- Carrier Collaboration: Faster communication with carriers; reduced manual effort and errors
- Shipment Visibility: Real-time tracking and monitoring; proactive exception alerts and resolution
- Freight Settlement: Improved invoice accuracy and rate compliance; reduced disputes and leakage
- Inventory Movement: Better coordination across warehouses; efficient distribution to retailers and distributors
- Customer Service: Improved OTIF (On-Time In-Full); higher customer satisfaction
- Compliance: Enhanced traceability and audit readiness; alignment with food safety and regulatory standards
- Sustainability: Reduced transportation emissions; lower waste and more sustainable operations

The Future of Food & Beverage Logistics

The future of Food & Beverage logistics will be driven by:

- Real-time supply chain visibility
- AI-driven transportation planning
- Digital freight collaboration
- Predictive analytics
- Sustainable logistics operations
- Intelligent automation

SAP TM and BN4L together provide the digital foundation needed for F&B organizations to build agile, resilient, and customer-centric transportation operations.

Companies that invest in intelligent logistics platforms today will be better positioned to manage disruption, control transportation costs, improve delivery performance, and meet evolving customer expectations.

THE FUTURE OF FOOD & BEVERAGE LOGISTICS

Smart. Connected. Sustainable. Resilient.

Technology and innovation are shaping the future of Food & Beverage logistics, enabling smarter decisions, seamless collaboration and sustainable growth.

01 REAL-TIME SUPPLY CHAIN VISIBILITY
End-to-end visibility across shipments, assets and locations for proactive decision-making.

02 AI-DRIVEN TRANSPORTATION PLANNING
AI and machine learning enable optimize routes, predict demand and reduce transportation costs.

03 DIGITAL FREIGHT COLLABORATION
Connected platforms enable seamless collaboration with carriers, suppliers and logistics partners.

04 PREDICTIVE ANALYTICS
Leverage predictive insights to anticipate disruptions, improve performance and boost reliability.

05 SUSTAINABLE LOGISTICS OPERATIONS
Drive sustainability with lower emissions, optimized resources and eco-friendly transportation.

06 INTELLIGENT AUTOMATION
Automate processes, reduce manual effort and accelerate operational efficiency.

SMARTER LOGISTICS STRONGER FUTURE

Building a smarter, connected and sustainable future for Food & Beverage logistics.

More Visibility | Smarter Decisions | Lower Costs | Better Service | Sustainable Growth

PrimeS4: Your SAP TM and BN4L Transformation Partner

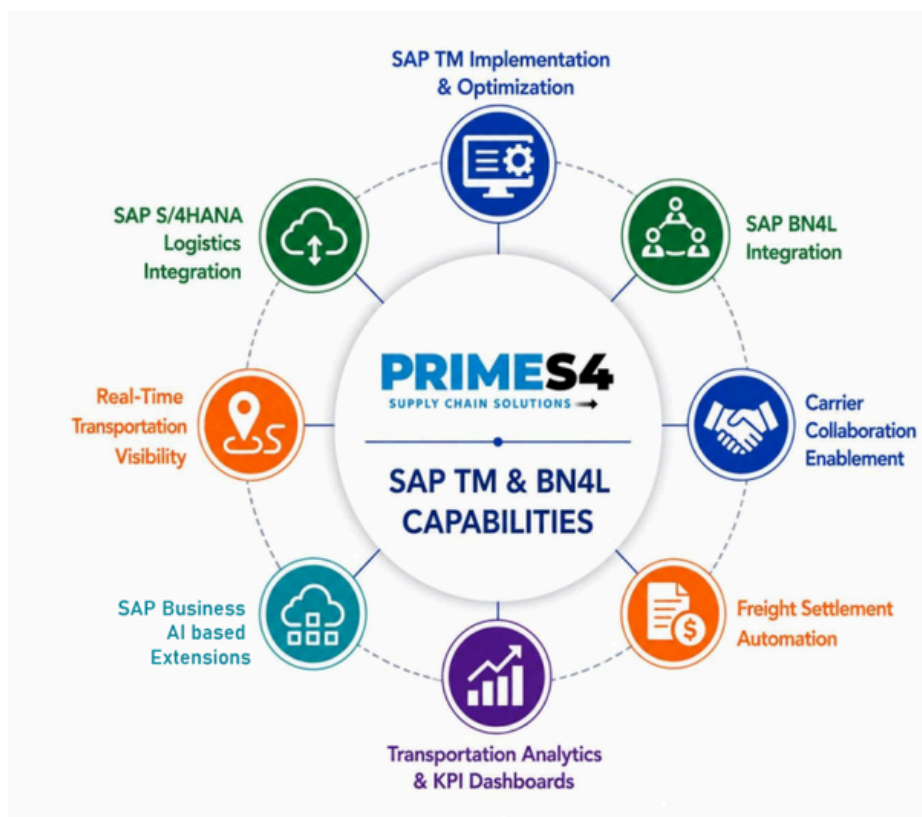
PrimeS4 is a trusted leader in SAP logistics transformation with deep expertise in implementing SAP TM and SAP Business Network for Logistics solutions across various industries, including Food & Beverage.

Our approach goes beyond standard implementation. We help customers design and tailor SAP TM and BN4L solutions that align with their unique operational models, transportation networks, compliance requirements, and business objectives.

PrimeS4 Capabilities Include

- SAP TM Implementation and Optimization
- SAP BN4L Integration
- Carrier Collaboration Enablement
- Freight Settlement Automation
- Real-Time Transportation Visibility
- SAP S/4HANA Logistics Integration
- Industry-Specific Transportation Design
- Custom Enhancements and Workflow Automation
- Transportation Analytics and KPI Dashboards
- SAP Business AI based Extensions

With multiple engagements in the Food & Beverage industry, PrimeS4 understands the operational realities and logistics complexities faced by modern F&B enterprises. Our consulting-led implementation methodology ensures that SAP TM and BN4L are implemented to deliver measurable business outcomes.





Summary

The Food & Beverage industry requires a logistics ecosystem that is intelligent, connected, scalable, and responsive. SAP TM integrated with SAP Business Network for Logistics enables organizations to transform transportation management from a reactive operational function into a strategic business advantage.

With proven expertise in SAP logistics transformation, PrimeS4 helps organizations implement and tailor SAP TM and BN4L solutions that improve visibility, optimize freight operations, enhance collaboration, and support long-term business growth.

As transportation networks become increasingly complex, partnering with an experienced SAP implementation leader like PrimeS4 can accelerate digital transformation and unlock measurable supply chain value for Food & Beverage enterprises.