TMS+ Transportation Management System

Kinaxis solution guide. Benefits, Capabilities, and Differentiators.

Multi-service transportation management

A digital-first business strategy is your best defense against risk and uncertainty. Supply chain stakeholders turn to Kinaxis' smart, scalable, and agile transportation management system to boost operational efficiencies, improve visibility, and better manage costs.
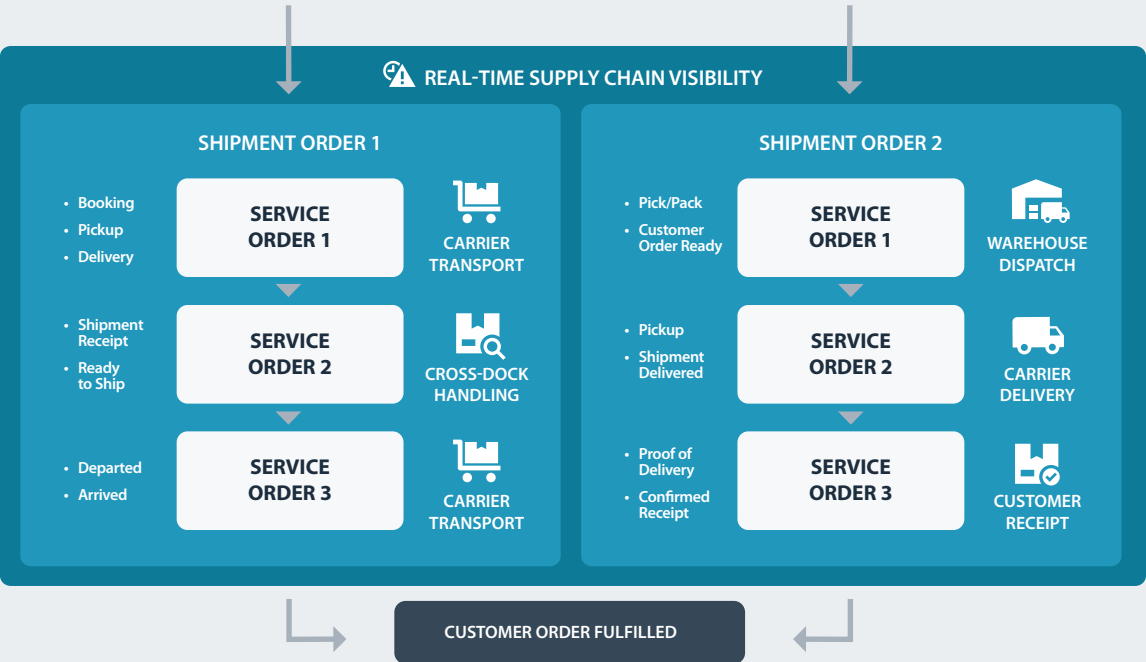
The Kinaxis supply chain orchestration approach helps streamline domestic and international multi-modal supply chains with automation to optimize all inbound, interplant, outbound, omnichannel and reverse order flows – from planning to execution. Businesses gain flexibility to dynamically collaborate with their extensive forwarder/3PL/carrier networks and manage exceptions in real-time. The platform also seamlessly connects to a

vast service provider and carrier network, providing visibility and collaboration across all transport modes (ocean, air, truck, rail, and parcel) and geographies - all on one platform - enabling our customers to accelerate their ROI.

Below, you can see an example of the multi-service transportation management functionality. Customer orders can be decomposed into one or many shipments. The execution of each individual shipment order is optimized through its own dedicated micro supply chain. The orders can then be consolidated before OTIF delivery to the customer. Moreover, any vital resource constraints in the supply chain can also be taken into account during any stage of the planning process.

Customer Orders

Sales / Purchase / Return /Transfer / eCommerce Order

Within seconds, the system evaluates the various flow paths and available parties, services, and costs, and then allocates the respective orders and bookings based on that intelligence

REAL-TIME SUPPLY CHAIN VISIBILITY

SHIPMENT ORDER 1

- Booking
- Pickup
- Delivery

SERVICE ORDER 1

CARRIER TRANSPORT

- Shipment Receipt
- Ready to Ship

SERVICE ORDER 2

CROSS-DOCK HANDLING

- Departed
- Arrived

SERVICE ORDER 3

CARRIER TRANSPORT

SHIPMENT ORDER 2

- Pick/Pack
- Customer Order Ready

SERVICE ORDER 1

WAREHOUSE DISPATCH

- Pickup
- Shipment Delivered

SERVICE ORDER 2

CARRIER DELIVERY

- Proof of Delivery
- Confirmed Receipt

SERVICE ORDER 3

CUSTOMER RECEIPT

CUSTOMER ORDER FULFILLED

Rich and configurable capabilities

The TMS+ enables regional and international brands and LSPs to reduce lead times and operational costs and better serve their market with a consistently flawless customer experience. The flexible platform also allows businesses to grow their brands, expand their service portfolios, and go to market with speed, ease, and minimal disruption.

Built on a single data model, the TMS+ is designed from the ground up to truly eliminate functional and organizational silos. The platform spans a company's entire multi-party network (including suppliers, contract manufacturers, VMI specialists, 3PLs, and warehouses), provides true end-to-end visibility and in-app control over all order types (purchase, sales), and converges all inbound and outbound process flows.

Support for key customer business initiatives

Improve direct customer and end consumer experiences by delivering products and services efficiently

Minimize total landed costs to improve margins

Implement new service offerings quickly and easily

Build resilience with timely exceptions management and AI-driven risk management during planning and execution

With multi-currency cost management and carrier selection capabilities, businesses can manage highly complex and diverse supply chains in multiple countries worldwide. This includes overseeing remote deliveries, and consistently an cost-effectively carrying out both regular and rush orders under strict time windows. With order management capabilities, the TMS+ focuses on individual order requirements, so businesses gain unparalleled opportunities for optimization through order consolidation, pooling strategies, automated re-planning, and much more. For instance, shipments can be "decomposed" or broken up into various legs to isolate and optimize expedites, as well as control and monitor progress on more granular levels via milestones.

Key TMS+ capabilities

The TMS+ enables Visibility and Control electronically or via portals with carriers, suppliers, partners, and customers; seamless exceptions management with in-app problem resolutions; and end-to-end flow optimization by balancing service levels and logistics costs.

ANALYTICS	ORDERS	PLANNING	EXECUTION	FINANCE
PARTNER SCORECARDS	OUTBOUND ORDERS	MULTI-MODAL RATING	BOOKING & TENDERING	SERVICE / RATE AGREEMENTS
PREDICTIVE ANALYTICS	INBOUND ORDERS	CONTINUOUS OPTIMIZATION	EXCEPTIONS MANAGEMENT	FREIGHT AUDIT
REAL-TIME, DASHBOARDS	INTERCOMPANY ORDERS	DYNAMIC CARRIER SELECTION	VISIBILITY & CONTROL TOWER	CUSTOMER INVOICING
FINANCIAL PERFORMANCE	RETURN ORDERS	ADVANCED PLANNING	PORTALS & MOBILITY	CARRIER INVOICING

Why Kinaxis? A brief case story

Technology leader Flex manages 16,000 worldwide suppliers and manufactures 12,500 unique end products. Most of its customers have highly complex supply chains and, when they partner with Flex, gain access to the global organization's network. Wanting to make more strategic, rather than reactionary decisions and improve collaboration across geographically dispersed teams, Flex chose Kinaxis for its TMS+. According to David O'Brien, Flex senior director, business development: "Kinaxis ticked all the boxes that were on our list for current and future needs."

Referring to the platform's ability for continuous optimization on every order, "it enables us to draw a relationship between customer orders, final shipments, and all service actions" says O'Brien, who also appreciates the platform's flexibility and how it configures extremely complex business rules. "Customers come to us with a lot of challenging projects that they were handling manually or using spreadsheets. Our system can be configured to deal with many complex situations (e.g., enrichment to orders before they're transmitted to the carriers). A lot of big players control the freight, and our customers can't always aggregate their orders and optimize their businesses," says O'Brien. For instance, if one component (i.e., a lithium ion battery) of a larger item is subject to "dangerous goods" regulations - and need to be separated and shipped via a different mode - Flex has those parameters configured and automated in the TMS+. "It's seamless in that it examines the order, applies all the rules , and then releases the final shipments."

Flex's global teams can also collaborate to anticipate potential risks and required services for every order and leg of the journey to meet very tight deadlines. "We can share information in real-time with our customers, sites, partners, and supply base," says O'Brien.

Transportation management system, making the case

As a multi-party, multi-mode , multi-region business network technology that provides embedded intelligence and deep learning capabilities, the TMS+ positions supply chain stakeholders to adeptly handle supply chain complexity, growing customer demands, and an uncertain and disruptive environment.

Because the Kinaxis Transportation Management System spans inventory, orders, and transportation, businesses can:

Reduce excess in-transit inventory and improve service levels by providing visibility to the flow of goods.

Reduce operational costs using smart, precise rating, planning and pro-active issue resolutions. The platform further empowers users to minimize 3rd party fees, detention penalties, and demurrage fees with visibility and alerts to critical milestones that you can act on immediately from directly within the application.

Consistently Make Perfect Orders via continuous flow optimization across the supply chain that ensures the best-in-class customer service with on-time deliveries, at the lowest feasible cost - for each and every order.

Meet sustainability goals by tracking and monitoring real-time analytics on CO_2 emissions on all orders and planning and executing all order flows against the lowest carbon footprint.

Accelerate the ROI of your platform investment by accessing real-time visibility across all modes and geographies with the world's largest network of carriers.

Top customer value drivers

5%
HIGHER OTIF

For a mid-size company, for example this could generate as much as $30 million additional revenue.

12%
TRANSPORT COST REDUCTION

Automated and optimized flows with ideal carrier selection and timely exceptions management.

7%
REDUCED OPERATING COSTS

With unparalleled flexibility and dynamic partnering, our customers see vast efficiency improvements.

VP Supply Chain

- **Improve service levels** with real-time visibility

- **Reduce costs** with cost control and optimization at every touch point

- **Connect warehouse and transport networks** into a single, streamlined operation via smart planning with warehouse operations

- **Improve returns management** with optimized reverse logistics capabilities

Logistics/Transportation Director / Manager

- **Gain supply chain visibility** via a single source view across warehouse, order, transport, ERPs, and financial systems

- **Save time and improve efficiency** by automating optimized and compliant processes

- **Improve OTIF Delivery** via timely milestone, alerts, and in-app exceptions management

VP Finance / CFO

- **Fast ROI** on projects and continuous value creation

- **Significant savings** via accurate cost calculations for each move, rate compliance and cost-to-serve spanning all logistics spend beyond freight

- **Obtain a future-proof investment** with options to unlock OMS, Returns Management, and e-fulfillment on one platform

About Kinaxis

Everyday volatility and uncertainty demand quick action. Kinaxis® delivers the agility to make fast, confident decisions across end-to-end planning and execution. People can plan better, live better and change the world. Trusted by innovative brands, we combine human intelligence with AI and concurrent planning and execution to help companies plan for any future, monitor risks, seize opportunities, and respond at the pace of change. Powered by an extensible, cloud-based platform, Kinaxis delivers industry-proven applications so everyone can know sooner, act faster and remove waste. Don't believe us? Ask us to prove it. Learn more at **Kinaxis.com**.

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