



Solution Brief

Beamup Fulfillment: Mastering 100% OTIF



Eliminating Friction in Pick, Pack, and Ship Operations

In the world of modern commerce, **OTIF (On-Time and Full)** is the only metric that truly matters to the end customer. Yet, hitting that 100% mark is an uphill battle against labor shortages, inventory discrepancies, and process bottlenecks. **Beamup AI** provides the “Integrity Layer” your fulfillment center needs by turning siloed data into a proactive defense against order failure.

The screenshot displays the Beamup AI interface. On the left, a sidebar menu includes 'Agents', 'Insights', 'Reports', and 'Data Center'. The main area shows a list of insights, with the selected one expanded to show details.

Insight: Kerritech Private Label products experiencing 22% stockout rate across regional DCs despite sufficient overall inventory

Reasoning Trace:

- Inventory M across regional DCs**
 - Supplier #4573 (Kerritech) Private Label products tracked across all regional DCs [View source](#)
 - 22% average stockout rate observed at DCs #234, #641, and #211
 - Stockouts occurring despite sufficient overall company inventory levels
 - Total SKU count: 47 Kerritech Private Label products
- Supplier lead time analysis shows Kerritech maintaining consistent delivery performance**
 - Average lead time from Supplier #4573: 12 days (within expected range) [View source](#)
 - On-time delivery rate: 94% over last 6 months
 - Lead time variance: ±1.5 days (acceptable)
 - No correlation found between lead time issues and stockouts
- Purchase order policy and Minimum Order Quantities reviewed with no issues identified**
 - MOQ levels appropriate for demand volumes [View source](#)
 - Purchase order frequency aligned with consumption rates
 - Economic order quantities within optimal range

Actions:

- Conduct stock balancing recommendations across DCs to redistribute existing Kerritech inventory [Create task](#)
- Update Master Data for Kerritech Private Label SKUs to increase safety stock levels by 12% in DCs #234, #641 and #211 to improve OTIF % [Create task](#)

The Three Missions of Fulfillment Excellence

Beamup applies three distinct intelligence missions to your fulfillment floor to ensure every order is processed accurately and leaves the dock on schedule.

Guard Alerts: Real-Time OTIF Protection

MISSION

Monitor every active fulfillment order against its Promise Date.

HOW IT WORKS

Beamup evaluates if each fulfillment milestone (pick, pack, stage) is on track; if a scan gap occurs, recovery protocols fire immediately to prevent a missed shipment.

FULFILLMENT FOCUS

Detecting **Shipping Cutoff Time Risks** at the sort or pack station before the carrier truck departs.

Detective Insights: Systemic Performance Analysis

MISSION

Surface systemic weaknesses across your fulfillment operations.

HOW IT WORKS

By continuously analyzing resolved fulfillment issues, Beamup identifies which stations, shifts, or carriers consistently underperform or cause "Short Ship" errors.

FULFILLMENT FOCUS

Identifying recurring **Loss or Damage Patterns** tied to specific package dimensions or packing stations.

Predictive Alerts: Proactive Floor Management

MISSION

Intervene before risks reach the fulfillment floor or impact the customer.

HOW IT WORKS

By spotting upstream delays, you can adjust labor or reroute order volume to a more capable node in your network.

FULFILLMENT FOCUS

Flagging Inbound **ASN (Advanced Shipping Notice)** delays early, allowing you to "push" today's orders to the next best node to keep the OTIF promise.

Key Use Case Scenarios

| CATEGORY | ROOT CAUSE / SCENARIO | BEAMUP CAPABILITY | SUCCESS OUTCOME |
|--------------------------|--|---|--|
| On-Time Risk | CPT Pressure: Orders stalled at the pack station as the shipping cutoff approaches. | Guard: Real-time detection of scan gaps; fires immediate recovery alerts to prioritize late orders. | 100% adherence to scheduled departure windows and reduced "left-behind" parcels. |
| "Full" Order Risk | Systemic Picking Errors: Specific stations or shifts consistently miss items in multi-box orders. | Detective: Analyzes historical patterns to identify underperforming stations or systemic picking friction. | Higher "Full" order completion rates and lower customer concession costs. |
| Node Resiliency | Inbound Bottlenecks: Delayed inventory arrival prevents the start of the fulfillment wave. | Predictive: Flags inbound ASN delays early and suggests rerouting orders to an alternate facility. | Maintenance of the delivery promise despite local inventory shortages. |

We protect customer loyalty **at scale.**

Beamup uses purpose-built AI agents to diagnose the supply chain failures that erode customer loyalty, then with your approval, run the fix automatically the next time the same failure mode appears. So delivery promises hold, NPS climbs, and repeat customers stay.



Total Signal Fusion

We unify your core systems, **OMS, IMS, TMS, and WMS**, with real-time floor scans and labor metrics to create a single, undeniable source of truth.



Human-in-the-Loop

Risk signals are prioritized for your Floor Managers or Loss Prevention teams, ensuring they spend their time solving problems, not finding them.



Scalable Integrity

Whether you operate one flagship DC or a sprawling micro-fulfillment network, Beamup ensures the same high standard of integrity across every node.

Schedule a Custom Demo: sales@beamup.ai