20TH ANNUAL 3PL ISSUE

THIRD-PARTY LOGISTICS PROVIDERS: THE ORIGIN OF THE SPECIES

NATURAL SELECTION: TOP 100 3PL PROVIDERS • 3PL EXCELLENCE AWARDS

SURVIVAL OF THE FITTEST: MANAGING SUPPLY CHAIN RISK

Got 3PL challenges? Get free expert solutions at inboundlogistics.com/3pl
INSIGHT

8 CHECKING IN WITH THE PUBLISHER
You say you want a co-evolution?

10 CHECKING IN WITH THE EDITOR
Turning back the pages: 20 years of top 100 3PLs.

12 DIALOG
The ongoing conversation.

14 10 TIPS
Overcoming LTL shipping challenges.

44 WORKING WITH THE RIGHT ENTERPRISE LOGISTICS PROVIDER MAKES GOOD COMPANIES SIGNIFICANTLY BETTER
Knowledge Base sponsored by Transportation Insight.

46 CLOUD INSPECTIONS: IMPROVING PRODUCTIVITY, SAFETY, AND REDUCING COSTS
Knowledge Base sponsored by Inspection Data Systems.

48 WHAT ‘DIGITAL BUSINESS’ MEANS FOR YOUR BUSINESS
Thought Leaders sponsored by Amber Road.

52 RISKS AND REWARDS
Six global supply chain challenges to ignore at your own risk.

INPRACTICE

16 READER PROFILE Terri Anderson: Care and Feeding of the WMS
Terri Anderson, production warehouse management systems manager at Houghton Mifflin Harcourt, configures, enhances, and tests the company’s WMS by the book.

209 DC SOLUTIONS Retail Collaboration: It’s All in the Jeans
Jeans company Lucky Brand works with a team of service providers to get a new retail distribution center up and running in only six months.

215 CASEBOOK BaubleBar Makes International Shipping Sparkle
For online jewelry retailer BaubleBar, partnering with DHL to streamline international shipping was a gem of an idea.

219 TOOLKIT NFL Intercepts Challenges, Tackles Data Collection
The NFL couldn’t afford a Hail Mary to improve statistics reporting capabilities. So it kicked off with a well-tested logistics technology to help gather the data that fans demand.

INDEPTH

70 THE SHAPE OF ‘THINGS’ TO COME
What the Internet of Things means for the supply chain—now and in the future.

78 GOING BEYOND THE CALL OF DUTY
When our nation’s heroes transition from active service to the private sector, logistics companies enlist them in long-term, successful careers.

Got 3PL challenges? Get free expert solutions at inboundlogistics.com/3pl
INDEPTH

90 The Evolution of Third-Party Logistics
How past challenges create tomorrow’s solutions.

99 EXCLUSIVE RESEARCH 3PL Perspectives
inbound Logistics’ annual market research report documents how 3PLs are evolving their value proposition as growth enablers.

112 Top 100 3PL Providers
Our annual directory celebrates logistics service providers that are at the top of their game while detailing the broad array of services and solutions these companies provide.

125 READERS’ CHOICE Top 10 3PL Excellence Awards
3PLs have the tools, people, knowledge, and experience to help supply chains run more efficiently. Which 3PLs did our readers vote the best of the best?

134 The Big Chill: 10 Trends in Cold Chain
The heat is on food and pharma companies to keep refrigerated freight frosty.

144 Supply Chain Visibility: Chasing the Big Picture
As technology brings supply chain data into focus, the ability to access and interpret business information moves from nice-to-have to must-have.
FULFILLMENT. INSIDE AND OUTSIDE THE BOX.

At Taylored Services, we look at your business as if we were a box moving through your supply chain in order to provide a comprehensive array of fulfillment services that best fit your business needs. Award-winning retail experts • Strategically located bi-coastal facilities • Extensive experience in both wholesale and retail distribution • Best-in-class systems and technology. We have a full range of services with multiple points of integrated client resource management that include:

- Unit Fulfillment
- Direct to Consumer
- Case Distribution
- Omni-Channel Distribution
- Transload, DC Bypass, Cross Dock
- Value Added Services
- Transportation Management

sales@tpservices.com • www.tayloredservices.com

Got 3PL challenges? Get free expert solutions at inboundlogistics.com/3pl
<table>
<thead>
<tr>
<th>COMPANY</th>
<th>PHONE</th>
<th>WEB ADDRESS</th>
<th>ASSET-OR-MIXED-ASSET BASED</th>
<th>AREAS SERVED</th>
<th>MARKETS SERVED</th>
<th>VERTICAL SPECIALIZATIONS</th>
<th>LOGISTICS SERVICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taylored Services</td>
<td>732-248-7900</td>
<td>tayloredservices.com</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TransGroup Worldwide Logistics</td>
<td>206-314-0330</td>
<td>transgroup.com</td>
<td>N</td>
<td>ASIA/PACIFIC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transplace</td>
<td>866-413-9266</td>
<td>transplace.com</td>
<td>N</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transportation Insight</td>
<td>828-485-5000</td>
<td>transportationinsight.com</td>
<td>N</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tucker Company Worldwide</td>
<td>856-317-9600</td>
<td>tuckercd.com</td>
<td>N</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UniGroup Logistics</td>
<td>636-305-5900</td>
<td>unigrouplogistics.com</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Universal</td>
<td>586-467-1457</td>
<td>goutib.com</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unyon</td>
<td>877-641-4892</td>
<td>unyon.com</td>
<td>N</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UPS Supply Chain Solutions</td>
<td>800-UP-KUPS</td>
<td>ups.com</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vantix Logistics</td>
<td>972-371-5014</td>
<td>vantixlogistics.com</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Verst Group Logistics</td>
<td>859-485-1212</td>
<td>verstgroup.com</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wagner Logistics</td>
<td>816-421-3520</td>
<td>wagnerlogistics.com</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weber Logistics</td>
<td>855-469-3327</td>
<td>weberlogistics.com</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Werner Enterprises</td>
<td>402-895-6640</td>
<td>werner.com</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WSI (Warehouse Specialists, Inc.)</td>
<td>920-831-3700</td>
<td>wsn.com</td>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>XPO Logistics</td>
<td>855-744-7970</td>
<td>xpo.com</td>
<td>N</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yusen Logistics (Americas)</td>
<td>800-414-3895</td>
<td>us.yusen-logistics.com</td>
<td>N</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Got 3PL challenges? Get free expert solutions at inboundlogistics.com/3pl
Retail Collaboration: It’s All in the Jeans

When Lucky Brand Jeans was sold to a private equity firm, and had to separate from the supply chain of former parent company Fifth & Pacific Companies, the apparel business needed to quickly establish its own, standalone distribution center (DC). The company marshalled help from a third-party logistics (3PL) provider, a technology firm, and a warehouse management system (WMS) provider to build its new DC and have it fully operational ahead of schedule.

Founded in 1990, Los Angeles-based Lucky Brand sells its premium denim jeans and other southern California-inspired clothing and accessories – including belts, scarves, handbags, ties, and jewelry – in more than 250 company stores, on its website, and through other retailers such as Nordstrom and Macy’s.

Lucky needed the new DC built and fully operational, including sorter functionality and systems integration, in six months. “The facility also had to service the company’s current retail and wholesale operations, and provide capacity for future growth,” says Courtney Lynch, Lucky Brand’s senior vice president of operations. “In distribution, nothing else matters if you can’t get the product out the door on time, and run a well-controlled operation that delivers consistently.”

The new DC was up and running in fewer than five months as the result of a collaboration between Ontario, Calif.-based 3PL Tailored Services, Los Angeles-based DC systems and technology firm SDI, and Lombard, Ill.-based WMS provider Zethcon Corporation.

In addition, Lucky, Tailored, and SDI agreed to a unique materials handling compensation structure designed
to allow the apparel company to save a percentage of costs over the life of the contract, while giving the service providers additional business.

“We signed the contract on June 26, 2014, and the DC went live on Nov. 3, 2014,” recalls Jim DeVeau, CEO of Taylored, calling the fast pace “unprecedented.” “It took a lot of team work, and a lot of collaboration among three different companies,” he adds.

**Startup Struggles**

The initial goal for the distribution center was the ability to ship 70,000 units daily. During startup, the DC had to struggle to reach that number. By June 2015, the operation shipped 286,000 units on its peak day, although not all units were processed that day.

From startup in November 2014 to mid-June 2015, Lucky had received more than 14 million units at the new DC, and had shipped more than 15 million units.

“With the startup, we’ve been successful in a short time, and we’re continuing to work with our providers to hit our service levels consistently,” says Lynch.

Announced in December 2013 and completed in February 2014, Lucky’s sale to Leonard Green & Partners L.P. for $225 million signaled the arrival of Carlos Alberini as Lucky’s chairman and chief executive officer. The deal also called for Fifth & Pacific to support the business for up to two years through a transitional services agreement while Lucky created standalone operations.

Alberini, former co-CEO of Restoration Hardware, had worked with DeVeau in the past, although not directly with Taylored. When the Lucky opportunity emerged, DeVeau reached out to SDI, a firm he has worked with for 20 years, about designing the DC’s automation solutions. Senior executives engaged in discussions about the feasibility of providing Lucky faster services at a lower cost.

“The project was a fun challenge,” says DeVeau. “Everybody came to the table and everybody’s goals were aligned.”

In addition to warehousing and distribution, Taylored Services offers e-commerce fulfillment, packaging, and transportation management. SDI provides materials handling systems, specializing in apparel sorting and unit handling, engineering and design, and systems and software integration. Zethcon supplies warehouse management systems and 3PL software.

Taylored dedicated 300,000 square feet of its 400,000-square-foot facility in Chino, Calif., to Lucky’s contract logistics program. If necessary, the jeans maker can eventually expand into the remaining 100,000 square feet, now used for public warehousing. The 3PL worked closely with SDI to make sure the center worked for Lucky.

“We designed, built, and implemented the automation and materials handling solutions that Taylored Services uses to fulfill product for Lucky Brand,” says SDI CEO Krish Nathan. “They gave us an empty building, and we designed a system to fulfill Lucky Brand customer orders at the required rate.”

**Meeting by Design**

Working within the existing operations model that Lucky was migrating from its former parent, Taylored and SDI held several design sessions both in the Lucky offices and at the Taylored facility.

“The team visited the then-current Lucky facilities, and held reviews with several IT consultants, surrounding the integration of the WMS with Lucky’s enterprise resource planning system,” says Lynch. “One major enhancement the teams built was the ability to have two sorters — one for retail and one for wholesale — which allowed for increased capacity and functionality.

“We had a few small startup issues, as you would expect with an implementation of this magnitude,” says Lynch. “But through strong collaboration efforts, the teams knocked down the issues as they came up.”

Planning and modeling were critical and Lucky had to make some adjustments from its previous distribution facility, which its former parent operated in-house.

SDI obtained existing distribution

---

An existing Taylored Services distribution center was outfitted with new automation and materials handling solutions to provide Lucky Brand with fast order fulfillment.
equipment from an outside source that it re-engineered and re-purposed for Lucky’s DC, which helped expedite the project. After that, SDI used its manufacturing capabilities to build additional equipment in-house, using multiple teams working additional hours on multiple shifts.

“At the height of the install, 50 to 60 people were working on the project six or seven days a week,” says Nathan. “It was the fastest implementation we’ve done for a project of this size.”

SDI was the single-source provider and integrator for all the materials handling aspects of the project, including electrical wiring, electric supply into the building, shelving, picking carts, software, support, high-speed conveyors, and onsite maintenance.

The new Lucky Brand DC system now includes:

- A high-speed carton sorter.
- Two SDI Bombay-type unit sorters designed to sort 4,000 units per hour per machine. Each machine has 310 destinations, is capable of supporting wholesale and retail sorting algorithms, and has the capacity to handle 60,000 units over two shifts per day.
- Automated print-and-apply machines that process 25 cartons per minute and apply shipping labels to outbound cartons.
- Storage capacity for at least 100,000 cartons or 3.4 million units of inventory.

The entire automated materials handling system is controlled by a DC management system, an SDI software package that interfaces with a host warehouse management system to ensure accurate processing through all automated equipment.

“The center is running smoothly and hasn’t lost any production capacity due to downtime,” says Nathan.

That doesn’t mean everything has gone perfectly, however.

The teams initially decided the DC would go live before Nov. 1, 2014, but not with retail and wholesale at the same time. They wound up having to go live on Nov. 3, with retail and wholesale starting up at the same time. The best implementations are usually phased in, but Lucky Brand had a big bang startup.

As a result, the first 60 days were tough. The DC, which has an average of 120 employees spread over two shifts on a typical day, quickly hit peak numbers.

SDI has an ongoing, 24-hour remote support contract for the facility’s software, as well as on-site technicians to provide support when the DC is operating. “We do everything we can to make sure that the facility runs at optimum capacity, and that system availability is high.” says Nathan.

A Fitting Contract

The fact that Taylored and SDI were willing to be paid piecemeal will result in cost savings for Lucky over the life of the contract. A large part of the providers’ compensation will be paid out on a per-unit basis, with a percentage paid up front. This compensation structure, which was designed to give the clothing company the benefits of scale, is estimated to save Lucky 25 percent on a per-unit basis. It’s the first such contract that Taylored has entered.

In the aftermath of its sale, Lucky Brand continues to transition other aspects of its business. “We picked Taylored Services as our 3PL partner because we could continue to grow with it,” says Lynch. “Within a short startup period, Taylored already meets our receiving, processing, and shipping expectations.”

As a result of their strong partnership, Lucky Brand and its service provider teams will keep finding ways to optimize the distribution pipeline. Their collaboration remains the retailer’s lucky charm.