Honeywell Flexible Wireless Computer Flexibility Improves Productivity for Dayco

About the Company
Dayco is a leading manufacturer of timing belts, tensioners, hoses and related parts, and also serves as the aftermarket distribution arm for its parent company, Mark IV Automotive. Dayco’s customers are the who’s who of the automotive aftermarket, including Advance Auto Parts, AutoZone, Pep Boys and other leading retailers. About 90 percent of shipments to North American customers flows through Dayco’s distribution center in Fayetteville, NC, which prepares approximately 300 to 400 small parcel shipments, 50 to 60 less-than-load (LTL) shipments, and five to six full truckloads daily.

Business Challenge
When Dayco Products, a leading aftermarket auto parts supplier was celebrating its 100th anniversary, its wireless computer system for distribution center operations was in its eighth year of service. The company’s anniversary was cause for celebration, but the wireless system was cause for concern. It’s limitations threatened customer responsiveness and placed a burden on distribution center workers. Dayco now serves its customers more efficiently than ever with a new wireless computing system from LXE, Cisco Systems and Peak-Ryzex that increased efficiency more than 10 percent and put the company on a strong technological foundation for the future.

“We have to make sure that our customers don’t have any interruptions to their supply chains,” said Jim Richter, distribution center manager. “We had so much equipment failure that it impacted our ability to ship orders to meet our customer commitments. We were always able to meet our customers’ requested ship dates, but we had to jump through hoops and run up a lot of overtime to do it.” Each instance of overtime typically costs Dayco $10,000 to $15,000.

Solution
Dayco upgraded its proprietary mobile devices and wireless LAN in Fayetteville to Honeywell’s innovative mobile computers running on a Cisco 802.11-standard wireless network integrated by Peak-Ryzex. The new system fit seamlessly with Dayco’s legacy warehouse management systems and business operations, with virtually no business disruption or software redevelopment. Essentially, the only things that changed were the mobile computers and wireless network. But the change was powerful: Dayco reports total productivity in the DC, including picking, putaway, cycle counts, inventory management and shipping operations, is up between 10 and 15 percent since the Honeywell and Cisco equipment was installed.

Reduced time spent managing label information by 50 percent
Improved label-printing process security by eliminating access to label templates
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—Jim Richter, Distribution Center Manager, Dayco

Peak-Ryzex worked with Dayco to design a wireless infrastructure and to evaluate equipment that would best suit the company's requirements. After years of monitoring mobile developments and months of systematically narrowing its choices, Richter quickly made up his mind after a site visit to another Peak-Ryzex customer.

“The site visit was what really sold us on Honeywell. When we saw how easy the units were to work with, and how they could be used in so many different ways, it was clear that they were the best mobile computers for us.”

“The improvements we've made are solely because our mobile computing and networking equipment is better,” said Richter. “We haven’t changed our legacy software yet, but we’ve still increased our throughput. That’s a testament to the power of the Honeywell units. We didn’t change our processes either. When we make those changes, our productivity should be even better.” Richter

had monitored mobile computing developments and evaluated potential replacement units for several years. Legacy factors made a transition difficult. Dayco runs a home-grown warehouse management system from an AS/400, and was using full-screen mobile computers with a proprietary operating system. The company didn’t want to redevelop its legacy systems to be compatible with the 1/4 VGA screen, Microsoft Windows-based mobile devices that currently dominate the market. Because of excellent performance at other company facilities, Dayco wanted a Cisco wireless backbone, making strong Cisco support in the mobile computers a requirement.
Additional Key Benefits

“We wanted a system that would enable us to increase our throughput and productivity. We wanted something that was more robust, in terms of durability and strength. The new system needed the ability to grow with us because our customers are always asking us to provide new capabilities.”

—Jim Richter, Distribution Center Manager, Dayco

The innovative Honeywell design meant Dayco could use one model for all its picking, putaway and inventory management applications. More than 40 Honeywell computers are in simultaneous use throughout the DC. Other potential vendors proposed a mix of products to meet Dayco’s application needs, which would have resulted in increased training and support costs. Peak-Ryzex teamed with Honeywell and Cisco to provide an easily deployed, low-risk solution that lead to improved efficiency with little or no disruption to the day-to-day operations of the distribution center.

“Our associates love the new devices because they’re so much faster. When they scan a U.P.C. number, they get instant confirmation,” said Richter. “They also love the fact that if they’re walking around and get a low battery alert, they can just switch batteries with someone who’s working on a vehicle, which has a plug-in power source for the computers. Workers don’t have to walk all the way through the distribution center to the office to get a new battery anymore.” Because legacy applications were ported to the Honeywell computers, and business processes didn’t change, the new system implementation went smoothly and operators quickly accepted the new computers.

Benefits and Results

It helped that we only had to train our users on one device,” said Richter. “That really helped keep our implementation costs down and was a big factor in us completing the project eight days ahead of schedule. We will eventually revise our legacy applications to take better advantage of the Honeywell devices. When we do, we’ll save even more money, because we’ll only have to do software development for one device.”

A smooth transition was crucial to project success. Because Dayco already had a wireless computing system in place, it wasn’t counting on major new cost savings or productivity gains to offset the cost of the new system. “The upgrade was considered a quality initiative intended to improve customer service. Work slowdowns caused by integration problems would have severely undermined the effort,” said Richter. “When our president saw how the new system could help us meet our customer commitments, he approved the project pretty quickly.”