

SUCCESS STORY —

GRUPO LA DESPENSA

Grupo La Despensa optimizes its warehouse management by implementing a voice picking system through Wi-Fi 6 connectivity.

The La despensa logo, which includes the text "La despensa" in a blue, sans-serif font, with a small graphic of three colored squares (blue, yellow, and red) to the right of the word "despensa".

La despensa

Grupo La Despensa

Grupo La Despensa is a 100% Castilian-Manchego family-owned company with 180 retail locations spread across the provinces of Toledo, Cuenca, Ciudad Real, Albacete, Guadalajara, Madrid, and Ávila.

The recent years have been marked by the significant growth of the company, providing employment to more than 2,000 people and launching its online store.

Grupo La Despensa has a central warehouse located in Mora (Toledo) with over 12,000 square meters, from which they daily supply all of their establishments.



The challenge

Grupo La Despensa has a distribution platform of 12,000 square meters, consisting of a warehouse dedicated to dry groceries and household products, and a warehouse designated for perishable goods.

In order to optimize order picking processes and enhance overall warehouse management efficiency, Supermercados La Despensa wanted to evolve from a manual picking system to a voice picking solution that would provide greater flexibility, speed, and accuracy in the tasks performed by the workers.

To accommodate the new picking system, it was necessary to provide the warehouses with the appropriate wireless coverage so that the workers could use voice recognition mobile devices, ensuring performance, quality, and voice traffic security.

"The starting point was one of the worst, with continuous incidents and service outages in a system that, based on cost savings, fell far short of the desired results. Our professional WiFi implementation project with Instel has successfully optimized the wireless communications of our logistics platform, ensuring the quality and continuity of our processes. Throughout the project, we have received close and professional support, which has been crucial for its timely and successful completion. Without a doubt, our decision to work with Instel has been a resounding success."

Jaime Navarro
Systems Director at Grupo La Despensa

The solution

Once the technical requirements of the project were identified, Instel supplied and implemented a Wi-Fi 6 wireless connectivity solution in the group's warehouses to ensure maximum efficiency in voice picking.

Why Wi-Fi 6?

In a scenario of growth and a variety of applications, as well as the increasing number of IoT devices, network performance becomes a critical requirement. This situation has prompted wireless standards to evolve to adapt to the new reality, providing a more efficient way to manage voice, video, and data traffic while ensuring performance and security.

With the goal of providing Supermercados La Despensa with voice traffic that meets the highest standards for its picking process, the implementation of a Wi-Fi 6 network has allowed them to have access points that simultaneously handle large data packets with maximum performance, avoiding latency issues and securing voice traffic.

The solution

The supplied and implemented elements include:

- **Aruba AP-505 Indoor Access Points:** These are Wi-Fi 6 access points that provide high-performance connectivity with real-time data speeds of 1.5 Gbps (HE80/HE20). They feature dual radios and incorporate a third radio for working with wireless IoT solutions. They have two omnidirectional antennas, a virtual controller, and Ethernet PoE ports.
- **Aruba AP-565 Access Points for the refrigerated storage area:** These Wi-Fi 6 access points are designed to withstand harsh environmental conditions. They are compatible with both wired and wireless connectivity in a single device and offer a maximum wireless speed of 1.5 Gbps.
- **Aruba Client Match RF Management:** All access points include Client Match technology, which enhances WLAN performance through radio frequency optimization, grouping multiple devices to ensure everyone enjoys the fastest connection at all times.
- **Aruba Central Licenses for unified network infrastructure management:** Aruba Central is a cloud-based centralized management console that provides information through artificial intelligence for quicker issue resolution and continuous network optimization.

Benefits

Corporation

- Next-generation wireless connectivity. It features a high-performance wireless network capable of managing traffic and bandwidth requirements.
- Improved user experience through agile and seamless connectivity.
- Lower energy consumption. Device connectivity through POE (Power over Ethernet) enables energy savings by powering down devices when they are inactive.
- Increased productivity associated with simpler, faster, and more comfortable picking processes.

IT Department

- Smooth and latency-free voice traffic.
- High-quality and secure voice traffic with the latest WPA3 security protocols.
- A robust and seamless Wi-Fi network, enabling faster and extended-range connections.
- Traffic optimization through simultaneous device management.
- Facilitates IT/IoT convergence for real-time decision-making.
- Scalability: A solution capable of adapting to the organization's future needs.



www.instel.es



Galileu, 288. 08028 Barcelona
934099191 - instel@instel.es