

# THE RUCKUS® SOLUTIONS IN CONNECTION WITH MAHOU SAN MIGUEL

**Mahou San Miguel** is a 100% Spanish family-owned company producing beer, other beverages, and services. It is a leader in the Spanish beer sector, with more than 135 years of history. It has 11 brewing centers (eight in Spain and three in the United States), four water springs, and a team of more than 4,100 professionals. Mahou San Miguel plays a crucial role in international markets, producing around 70% of the Spanish beer consumed abroad, and its presence extends to more than 70 countries.

With a long history of innovation and a commitment to quality, the company has implemented an advanced infrastructure to support the entire set of operations technologies (OT) across all its factories and water springs in Spain. This infrastructure is key to maintaining efficiency and quality in its production processes.



Customer  
 Mahou San Miguel

Location  
 11 brewing centers (eight in Spain and three in the United States)

## REQUIREMENTS

- Stable and secure connectivity
- Fast and flexible deployment
- Operational efficiency
- Centralized management
- Cost reduction
- Capacity for growth
- Innovation
- Sustainability

## SOLUTION

- RUCKUS access points (APs):
  - Indoor: R350
  - Outdoor: T350
- RUCKUS® Virtual SmartZone™ Controller
- RUCKUS AI™

## BENEFITS

- Continuous and fault-free operation
- Network visibility
- Focus on value-added activities
- Process optimization and product traceability
- Error reduction
- Cost-effective solution
- Future-ready technology
- Improved user experience



## A safe bet

Advancements in network infrastructure technology have opened up significant opportunities to enhance production processes, with direct benefits in areas such as management, traceability, quality control, and operational cost optimization.

Mahou San Miguel remains committed to adopting industry best practices and fostering innovation across all operational stages. As part of this commitment, the company undertook a renewal of its Wi-Fi® network using RUCKUS technology.

The deployment began in the autonomous vehicle (LGV) area, chosen for its strategic importance. Automated transport systems rely on robust, high-performance connectivity to function seamlessly, making this zone a critical starting point for the network upgrade. From design through to implementation and commissioning, the focus was on ensuring reliable wireless infrastructure to support uninterrupted operations.

This first phase served as a test of the reliability and robustness of the solution in a highly demanding environment.

After the initial success, the project moved on to the rest of Mahou San Miguel's facilities nationwide. The RUCKUS wireless network has been deployed in factories such as Alovera, Burgos, Cordoba, Granada, Malaga, and Tenerife, among other locations. Each phase of the deployment was carefully planned to try to interfere as little as possible in the daily operations—enabling Wi-Fi coverage that is secure, stable and built for the future.

## A robust network infrastructure for continued leadership

In the world of brewing, maintaining leadership depends not only on product quality, but also on the efficiency and reliability of business operations.

A solid network infrastructure is essential in order for every aspect of production and logistics to run smoothly. This is where RUCKUS wireless solutions play a crucial role in providing robust and stable communication where conditions can be challenging due to the presence of heavy machinery, metal structures and large coverage areas.

RUCKUS APs are the ideal solution for Mahou San Miguel's logistics plants and warehouses, where signals can often experience interference.

Its BeamFlex+® technology optimizes signal direction to bypass obstacles and maximize coverage. This enables mobile devices—including handheld scanners, barcode scanners and IoT sensors—to maintain a consistent, high-quality connection.

ChannelFly® AP technology allows optimal performance and minimizes connectivity disruptions by automatically switching to uncongested channels, mitigating interference in congested radio frequency (RF) environments due to the presence of multiple wireless devices.

RUCKUS SmartMesh™ technology is ideal for expanding coverage in their plants and warehouses without incurring significant infrastructure costs, as it allows the creation of wireless mesh networks that connect different areas without the need for additional cables.



During peak activity, such as shift changes or intensive production processes, access points are able to allow critical devices to maintain a high-quality connection by managing the access of new devices. This is crucial to maintaining operational and helping critical company processes remain uninterrupted.

The implementation of RUCKUS Virtual SmartZone (vSZ) controllers has been a key factor in Mahou San Miguel's infrastructure renewal/expansion project—enabling centralized management through a single control panel from which its multiple locations are supervised and monitored with complete visibility of network operations. This allows network administrators to identify and resolve issues quickly essential because downtime can affect production. It also reduces their workload by automating routine tasks such as firmware upgrades and network configurations, allowing the OT team to focus on more strategic, value-adding activities.

The controller facilitates the management of converged networks that integrate Wi-Fi, IoT and other technologies, enabling all systems used in plants and warehouses work together efficiently and securely by including access and authentication policies to protect the network against unauthorized access and maintain data integrity.

The technical team also benefits from RUCKUS AI, which provides robust service assurance and business intelligence. This helps them get the most out of the enterprise network. This cloud service utilizes AI and machine learning (ML) algorithms to streamline operations by automatically categorizing service incidents based on severity, identifying root causes, and proposing resolutions. RUCKUS AI enables Mahou San Miguel to define and monitor its key performance indicators (KPIs), leading to enhanced business results.

## Product traceability and process control

The implementation of the new network has enabled Mahou San Miguel's operations to evolve—facilitating the traceability of the entire production chain using portable readers as a fundamental component. Furthermore, staff members have been equipped with tablets to control industrial processes, facilitating automation and the implementation of lean manufacturing practices.

In its most advanced factories, Mahou San Miguel uses autonomous forklifts that rely on the Wi-Fi network for their operation. This modernization not only improves efficiency, but also reduces human error and increases safety in its facilities.

**“A reliable wireless network makes it easier for employees to eliminate paper at the workplace, allowing them to focus on more value-added activities such as process monitoring, continuous improvement and innovation. This not only fosters a more enriching work environment, but also enhances employees’ professional development—allowing them to contribute more meaningfully to the company’s success,”** says Germán García, OT technician at Mahou San Miguel, who has led the RUCKUS technology deployment projects.

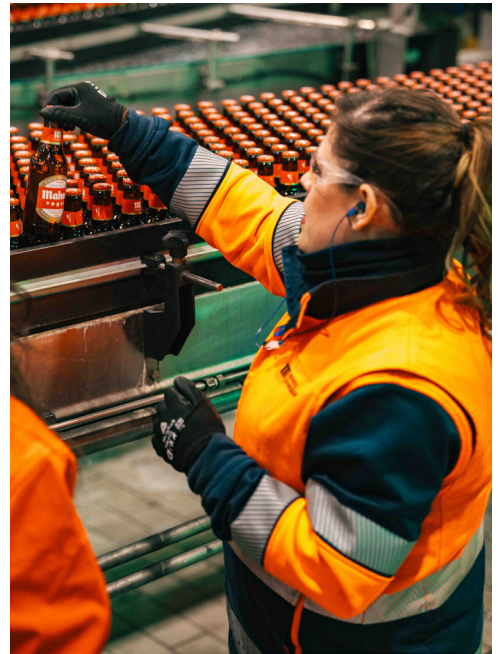
## A “five-star” brand experience

The implementation of a RUCKUS wireless network has taken Mahou San Miguel's connectivity to another level, optimizing its operations and providing a robust and flexible infrastructure.

- **Speed and flexibility:** The new network facilitates agile deployment and efficient segmentation, allowing it to adapt to the evolving needs of operations.
- **Resilience and redundancy:** The virtualized infrastructure (VM) facilitates continuous and faultless operation, providing high availability and resilience.

- **Advanced configuration capability:** The network supports complex configurations such as fast roaming on automated guided vehicles (AGVs), improving operational efficiency and enabling seamless mobility.

**“The collaboration between Mahou San Miguel and RUCKUS Networks has been instrumental in optimizing their operations and improving the quality of their products. The implementation of a robust and advanced Wi-Fi network has enabled them to overcome connectivity challenges, improve traceability and process control, and delivers continuous and efficient operation. With RUCKUS solutions ready to address future challenges, Mahou San Miguel is poised to grow and continue to lead the brewing industry in Spain,”** concludes Germán García.



## About RUCKUS Networks

RUCKUS Networks builds and delivers purpose-driven networks that perform in the demanding environments of the industries we serve. Together with our network of trusted go-to-market partners, we empower our customers to deliver exceptional experiences to the guests, students, residents, citizens and employees who count on them.

[www.ruckusnetworks.com](http://www.ruckusnetworks.com)

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