

USING RUCKUS[®] EQUIPMENT, AZ ARMATUREN ELIMINATES CONNECTION PROBLEMS AND CONNECTS TO IoT



25,000 m² of the factory with Wi-Fi



more than 200 employees connected



5 lathes with IoT

Manufacturer of special valves for 60 years, AZ Armaturen is a company of German origin and one of the most respected companies in their segment worldwide. Their products are used in critical processes in the chemical, petrochemical, steel, oil and gas, and mining industries, among other areas. In addition to their subsidiary in Brazil (located in Itatiba, in the interior of São Paulo, image below), AZ Armaturen has manufacturing units in China and South Africa, as well as service centers throughout Europe.

Willing to efficiently and reliably connect the approximately 200 employees of the Brazilian unit (which is responsible for serving all the Latin America market and which has a modern industrial park of 25,000 square meters), in addition to providing internet access to equipment in its factory, the company hired Maminfo. Using RUCKUS solutions, the integrator solved the previous wireless connectivity problems faced by AZ Armaturen.



The journey

Maminfo implemented the new equipment and configured the network accordingly. Thus, AZ Armaturen employees no longer complain about the wireless network, it was possible to adopt a VoIP telephony solution,

reducing costs, and they were able to configure their CNC lathes to connect and work via Wi-Fi[®].

CNC lathes are machines used in the AZ Armaturen factory for machining parts. Since these devices were previously connected to an unstable

wireless network, most of the time operators were forced to carry on a USB stick the program with the parameters used in the lathes to produce each piece. Thus, they could transfer this information to the machines to continue the operation.

Now, the company can take advantage of the internet of things (IoT). “After the deployment of a stable wireless network, it’s possible to obtain the program directly from the network, increasing productivity and reducing the time spent on this process, which is carried out several times a day”, highlights the CEO of AZ Armaturen. The executive points out that the solution adopted is also suitable for the factory expansion project, since it will be able to meet the increase in demand and also the larger coverage area.

“The Wi-Fi solution we had previously did not meet our needs. The signal fluctuated a lot, the connection loss was frequent. We needed a robust solution that could withstand the demands and challenges of the manufacturing environment. With the new equipment, employees no longer complain about the wireless network, it was possible to adopt a VoIP telephony solution, reducing costs, and we connected our CNC lathes to Wi-Fi.”

Alexander Schmidt,
CEO of AZ Armaturen

The solution

Seven RUCKUS T310C access (APs—equipment for outdoor environments such as stadiums, schools and smart cities)—were used in the project, as well as four R320 APs, indoor units that incorporate RUCKUS patented technology and provide high performance even in environments with high levels of interference.

In this project, the proposal of RUCKUS to the market and its customers is clear, which is to provide a simple, robust, reliable Wi-Fi solution with the best productivity and experience for users, whether they are people or machines (as is the case with the IoT).

“Our biggest challenge in this project was dealing with a stressful environment for the equipment, in which you have to work with factors such as temperature variation, presence of dust and humidity, among others. The analysis of the environment identified problems such as the lack of centralized management, low density, limited signal range and frequent loss of connectivity, due to the large number of accesses, a volume that the previously used APs did not support. All of these issues have been resolved with the new design and use of RUCKUS’ Networks solutions.”

Adriano Marcelo, CEO of Maminfo.

Products



Access points RUCKUS T310C



AP indoor RUCKUS R320

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

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