



CASE STUDY

The superpower of Nikrans' boosters:
**Groupe Champion's network
issues slayed with one solution**

An industrial company that specializes in the distribution of construction tools and steel products enhanced connectivity across the designated areas with the help of Nikrans' repeaters.

Explore how our new client combated persistent connection problems, establishing seamless connectivity in two of its most important branches and elevating employee and customer satisfaction rates through our amplifying solutions.



The client of Nikrans—Groupe Champion—is a distributor of tools, supplies, and steel products for industrial, public, and construction sectors. Being over a century in the market, the company operates in over 32 operational units across diverse locations in France and Switzerland. With a portfolio of over 62,000 customers, this industry giant has always been mindful of its reputation and the high quality of its service. But one day, its reputation in the Champion Vendargues and Champion Bonneville locations was at stake—all because of unexpected and mission-critical network issues.



Problem

An industrial supply store with an enormous warehouse in Champion Vendargues and a production site focused on steel reinforcement fabrication in Champion Bonneville are key operational units, generating nearly one third of the client's yearly revenue. As technology advanced, Groupe Champion's existing connectivity systems in those areas became obsolete and, therefore, ineffective, causing the following difficulties:

- **Dead zones with no Internet coverage**, making it complicated for staff to complete critical duties like scanning items and updating records for incoming and outgoing goods.
- **Insufficient support for IoT devices**, which hampered the automation of workflows, real-time process monitoring, predictive maintenance, and the stable operation of security systems.
- **An increased number of workplace accidents and emergencies** that could have been, but weren't, addressed promptly because of sluggish connections, putting employee safety at risk.
- **Limited connectivity in hard-to-reach warehouse zones** like long aisles and closed storage sections, which complicated navigation as well as the accuracy and speed of warehouse operations, such as checking stock levels.

In addition, all of these problems were **exacerbated by numerous metal structures**, creating a Faraday cage and obstructing mobile and Wi-Fi signals across the store, warehouse, and factory.

The Stock and Supply Manager in Champion Vendargues, Élodie Moreau, recalls one warehouse accident occurring because of substandard signal strength:

"One morning, a forklift operator was moving a bunch of heavy pallets to a far and remote corner of the warehouse in Champion Vendargues. Once in the corner, the forklift lost connection, blocking the aisle for the operator who was unloading the pallets. He could neither move nor call for help as no one would hear him. After nearly three hours, the operator was eventually found by his colleague who had arrived to unload other inventory. Although the employee didn't sustain any injuries, company management started to seriously muse on the possibility of overhauling existing network systems for more modern and smarter solutions. That's how we finally decided to create a healthy network ecosystem."

While searching for a trustworthy provider of working network solutions, Groupe Champion discovered Nikrans. Impressed by the **rich portfolio and client testimonials** presented during the first point of contact, the company confidently enlisted Nikrans expertise for their project. A promising collaboration for both sides has gone live.

Solution

Initially, the focus was on the client's challenges and technical requirements for the three specific locations. Based on the results of the investigation, the Nikrans' specialists deduced that the **NS-2000-Smart+5G** model would be best suited to enhance mobile connectivity across the store, warehouse, and production site. However, we also concluded that three separate boosters had to be backed up with **trunk amplifiers** to deliver the desired performance throughout the client's large and metal-dense areas. The combination of three NS-2000-Smart+5G boosters and trunk amplifiers with several antennas helped us not only establish but also effectively maintain stable coverage across multiple floors, remote corners, aisles, and storage zones in all the designated locations.

Nikrans NS-2000-Smart+5G

Coverage: 2000 m²

Up-link freq: 703-733, 832-862, 880-915, 1710-1785, 1920-1980, 2500-2570MHz

Down-link freq: 758-788, 791-821, 925-960, 1805-1880, 2110-2170, 2620-2690MHz

Up-link Gain: 65 dB

Down-link Gain: 70 dB

Power Output: 20 dBm

Working t °C: -25/+55 B°C

Humidity: 5 - 95%

IP-Code: IP40

Size: 150×210×36mm

Booster Weight: 2.5 kg

Power supply: Input AC90-264V, output 12V/5A

Energy Consumption: 0.012 kW/h

Model Year: 2023



Result

The sophisticated solution offered by our team resulted in several important outcomes for the client:

- **Up to 40% increase in productivity**—employees have started completing work tasks like inventory management and access to databases faster and more effectively due to uninterrupted automation.
- **Refined IoT device performance**—seamless communication of all systems, sensors, data, and gadgets across all existing departments has been established.
- **Fewer workplace accidents**—the number of work accidents has decreased significantly thanks to continuous connections.
- **The incorporation of mobile apps and payment systems**—Groupe Champion's customers are now able to conduct online payments without a single hitch, which boosts their satisfaction and loyalty on a daily basis.
- **Increased overall annual revenue**—as a result of fewer disruptions, faster and smarter operations, and better customer experiences, the client saw a 15% revenue growth within one year after our solution was implemented.

Revenue growth within one year after our solution was implemented

↑ 15%

With just one booster model and the trunk amplifier technology, Nikrans addressed all the challenges for its renowned client. The representative of Nikrans, Julia Dav, shared her thoughts on collaboration with Groupe Champion:

"Helping Groupe Champion, the established player in the construction and industrial market, was an honor for the Nikrans team. We're proud to have ideated a custom solution that was delivered as quickly as can be. The management of the company sent us an appreciation letter, underscoring our dedication, creative approach, and perseverance in finding solutions to the most complex and uncommon problems. We're committed to ensuring that every business, no matter the size, has seamless connections for prosperity, growth, and sustainable cash flow."

Nikrans' connectivity solutions: time to try the best for your business

With 10+ years in the amplifying solutions sector, Nikrans easily grasps your individual needs and technical requirements. We offer versatile systems that are perfectly suited to the specifics of your business. Do you feel the solution we created for Groupe Champion is a perfect fit for your current challenges? Our expert team will easily adapt it to your demands and settings, including production facilities, stockrooms, and retail environments. Experience our next-gen repeaters that not only redefine connections but also transform the trajectory of your business—towards satisfied employees and customers, as well as measurable income.




Multi band boosters allow amplifying signals in 2-3-4-5-6 frequency ranges at a time, making it possible to improve GSM+4G, 4G+5G+GSM or other combination of bands.

Total Products Available: **95**

Working Frequencies: **800, 900, 1800, 2100, 2600 MHz**

Available Coverages: **Vehicle/Marine, 300, 500, 800, 1000, 1200, 2000, 3000 m²**

-  Partners in 12 countries
-  4 partner factories
-  Warehouses in EU and UK
-  Languages spoken:
English, Italian, Spanish, French, Polish, German
-  Local presence:
Hong Kong, Cyprus, Poland, Gibraltar

 +[33]423500250
 contact@nikrans.com
 www.nikrans.com

