



IoT Segment

Manufacturing

Capgemini is a global leader in partnering with companies to transform and manage their business by harnessing the power of technology. The Group is guided everyday by its purpose of unleashing human energy through technology for an inclusive and sustainable future. It is a responsible and diverse organization of over 350,000 team members in more than 50 countries. With its strong 55-year heritage and deep industry expertise, Capgemini is trusted by its clients to address the entire breadth of their business needs, from strategy and design to operations, fueled by the fast evolving and innovative world of cloud, data, AI, connectivity, software, digital engineering and platforms.

Business Challenge

From avionics and automotive to steel manufacturing and shipping, large crane hoisting plays a critical role in supply chain and manufacturing operations, where heavy materials and goods are lifted and transported over what can be hundreds of meters. These cranes are designed to operate in challenging industrial environments under extreme temperatures and weather conditions around the world.

Solution

Capgemini has worked closely with Schneider Electric to design an optimized end-to-end 5G solution for Schneider Electric's crane hoisting application. As a systems integrator Capgemini designed products using the latest Qualcomm® technologies marrying Schneider Electric's expertise in industrial automation, with Capgemini's hands-on experience of network build out, deployment and IT/OT integration to provide remote access, reduce maintenance time and equipment failures for hoisting customers.

Impact

Replaces wired and other wireless connections for several critical PLC control flows and time sensitive video to enable remote operation of multiple cranes

Large positive impact seen in sustainability (34% reduction in carbon); Maintenance (40% reduction in failures) and 3X increase in number of cranes remotely operated



Client

Schneider Electric

Schneider Electric SE is a French multinational company that specializes in digital automation and energy management. It addresses homes, buildings, data centers, infrastructure and industries, by combining energy technologies, real-time automation, software, and services.

“Digital transformation is helping Schneider Electric customers generate step-change advancements in productivity, efficiency, and sustainability, but no one company can do it alone. Schneider Electric has always been a proponent of collaboration and the innovation that comes with it. This breakthrough end-to-end 5G private network hoisting solution is a perfect example of the power of working together as we pilot it at end user sites this year.”

Marc Lafont

Vice President, Innovation and Upstream Marketing
Schneider Electric