

DEPLOY: DISTRIBUTED CLOUD

UTILIZING PRIVATE 5G TO TRANSFORM BUSINESS PRACTICES

THE CHALLENGE

An auto manufacturer wants to modernize operations for increased efficiency and quicker response to changing customer needs, using abilities such as data linking or product tracking on the assembly line.

To that end, it is digitizing its entire operation, from production through to direct sales orders from customers. It is also shifting to an EV skateboard production model that depends on complex software tools and interactions between the software application teams and production teams as they learn and adjust systems.

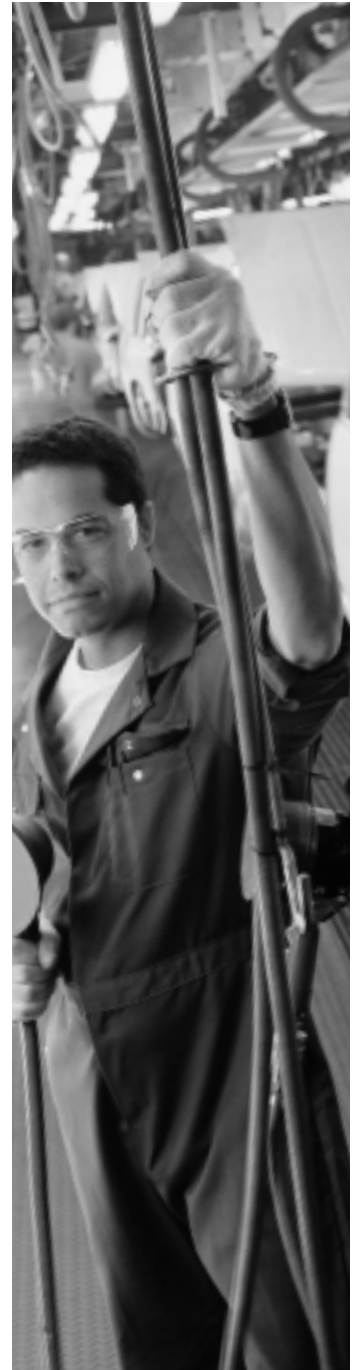
An ultra-low-latency private 5G network that allows teams to connect into their development and deployment needs (OTA, for example) is essential. To take full advantage of 5G and the potential of Industry 4.0 machines and systems, the company will need to equip the factory with several 5G small-cell indoor antennae and a central 5G hub. This presents a challenge because, to meet new market conditions and compress production rates, it must also be able to learn and adapt by reconfiguring its campus, changing components, re-tasking robotic systems, and more.

THE SOLUTION

Wind River® Studio, which is used by leading Tier 1 telecommunications operators, is architected to meet the requirements of 5G Open RAN and provides Day 2 features for ease of operations, reducing total cost of ownership. It is proven to enable flexibility and orchestration capabilities for robotics equipment on the campus and will also connect directly into the development and deployment platforms to significantly increase the speed of learning and deploying adjustments.

THE RESULTS

To enable private 5G connectivity, the manufacturer can choose to use traditional equipment or a disaggregated approach. **By selecting an open and disaggregated path, the manufacturer has more flexibility to adjust its network as needed, now and in the future.**



RELATED USE CASES

Speed Testing to
Get True CI/CD in
Embedded >>

Test Multiple Hardware
Versions at Scale >>

Utilizing the Power of the
Cloud for Collaboration >>

Using Established Best
Practices to Move Toward
Open Innovation >>