

Using NetCloud Edge Connector for easy integration with Azure IoT Central

Simplified Way to Reap the Benefits of Cloud-Based LTE Connectivity and IoT Management and Analytics

Challenge

IoT use cases are permeating virtually every industry and are increasingly having a greater impact on business outcomes — from monitoring crop health in agriculture to monitoring mission-critical environmental conditions in industrial applications.

Today's businesses depend on data to make smart decisions about their business. The confluence of sensor data, predictable connectivity, and analytics are factors that drive increased operational efficiency, improved customer satisfaction, and/or reduced CAPEX/OPEX.

In reality, end-to-end IoT deployments are typically complex, requiring specialized expertise, and costly, due to dedicated overlay networks. As a result, more than 60% of IoT initiatives never make it to production, impacting the organization's time-to-market and bottom line.

Solution

Cradlepoint and Microsoft Azure IoT Central deliver a framework that enables IoT deployments easily, securely, and at scale. NetCloud Edge Connector — a new feature within Cradlepoint's NetCloud Service — enables easy integration of a large number of distributed connected sensors with Azure IoT Central. Now, Cradlepoint or Microsoft partners can confidently build, deploy, and securely host IoT applications for their customers, who benefit from an end-to-end IoT solution driving IT/OT convergence and optimized business outcomes.

System Architecture

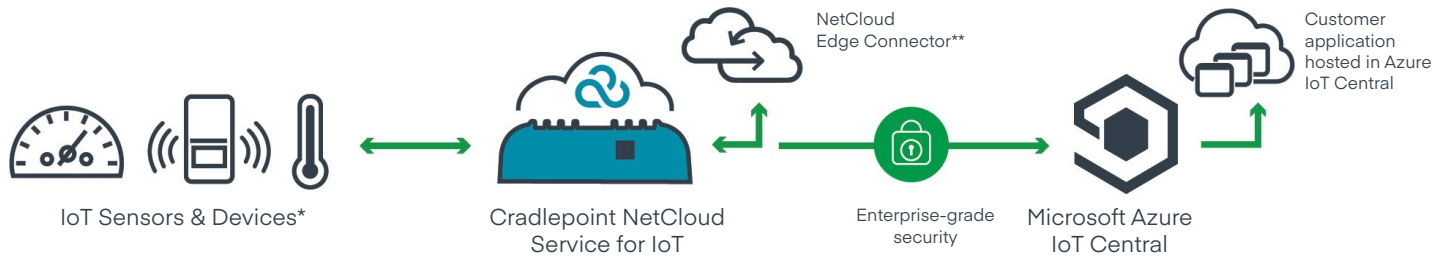
Business intelligence from IoT sensors depends on reliable and secure connectivity to aggregate data from multiple sources, and then to derive visibility, management and actionable insights through analytics. The following system diagram provides an example of an end-to-end IoT solution delivering edge-to-cloud connectivity with security.



The Cradlepoint/Microsoft Azure IoT Central solution has given us a plug-and-play secure network that delivers the business-critical field reporting we need to lower our costs and deliver a superior customer experience.

Harry Eschel

Senior Vice President, Product Development



Example Use Cases

With the flexibility and simplicity of this joint solution, several use cases are possible across the Cradlepoint portfolio of LTE edge connectivity solutions. In addition, NetCloud Edge Connector enables customers to easily deploy IoT applications at scale in a matter of minutes.



IoT

- Mission-critical environmental monitoring for industrial plants
- Smart video surveillance
- Autonomous irrigation systems for indoor plant walls



Branch

- Cold storage temperature monitoring of perishable goods in restaurants
- Inventory tracking and insights in retail



Mobile

- Remote monitoring of patients' vital statistics while they are being transported to the hospital in ambulance
- Connected sensors for emergency first responders

Learn more at cradlepoint.com/netcloud-edge-connector

*IoT sensors & devices can connect to Cradlepoint endpoints via wired or wireless interfaces. Cradlepoint does not manufacture IoT sensors or devices.

**NetCloud Edge Connector requires Advanced plan