

5G Edge with AWS Outposts

Solution brief

Dedicated on-premises edge compute infrastructure delivers low latency, high security and a seamless hybrid cloud experience.

Mobile edge computing (MEC) puts processing power and storage where it's most needed: at the edge of the network, close to where data is generated. As part of a cloud computing solution, MEC helps organizations reduce latency and – particularly when coupled with 5G – can make the use of remote services more efficient.

Cloud computing and MEC are powerful tools for digital transformation and appropriate for many public-facing applications. However, private MEC may be the answer if you need the lowest available edge latency and enhanced security and data sovereignty for applications such as telemedicine, automated guided vehicles (AGVs), intelligent logistics, augmented and virtual reality (AR/VR), robotics or factory automation.

Private MEC allows you to deploy an end-to-end solution with a fully managed on-premises cloud computing platform, tightly integrated with a private On Site 5G radio access network (RAN). For added flexibility and utility, a software-defined wide area network (SD WAN) can be integrated to securely connect to other locations or your existing data center.

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Verizon 5G Edge with AWS Outposts, a Verizon-managed private MEC solution, provides a completely dedicated edge-compute infrastructure on premises. When combined with Verizon On Site 5G connectivity, it enables low latency, high levels of security and deep customization.

The solutions together deliver dedicated On Site 5G connectivity and a seamless extension of AWS infrastructure services, application programming interfaces (APIs) and tools to virtually any data center, colocation space, school campus or on-premises facility.

That means you can manage workloads and storage between the on-premises MEC and the public cloud to maximize flexibility and control costs, while gaining the performance and security needed to support transformative business processes or customer experiences.

When it's necessary to connect with remote data centers or other locations, Verizon makes it happen over a secure SD WAN connection, so you maintain control over your data and the overall infrastructure.

Possible applications for 5G Edge with AWS Outposts

There are many use cases where low latency, high bandwidth and enhanced security are critical. Following are just a few of them.



Logistics quality

Computer vision and machine learning (ML) ensure the accuracy of item picking.



Predictive maintenance

Data from IoT sensors and cameras combined with data analytics improve machine utilization.



QA automation

Low-latency-enabled computer vision combined with ML catches production defects before they reach customers.



AGVs

Monitor and direct plant-floor AGVs in near real time to improve operational efficiency, enhance safety and reduce collisions.



Airport ground operations

Track, monitor and analyze activity around aircraft and integrate ground and flight operations, fleet planning, passenger reservations and aircraft maintenance.



Critical infrastructure monitoring

Improve management, reduce inspection costs, monitor safety in near real time and manage the physical condition of assets.

Learn more:

To learn more about 5G Edge with AWS Outposts, contact your Verizon Business Account Manager.