Network-connected devices enrich consumer and business experiences

Digital transformation enabled by Internet of Things (IoT) technology brings value to many industry verticals and use cases, including:



Industrial environmental monitoring



Sports performance management



Smart agriculture



Vehicle telematics

availability of big data analytics, artificial intelligence and machine learning (AI/ML) services, enterprises can unlock more value from the rapidly increasing number of IoT data streams.

Mobile-enabled IoT devices provide deployment flexibility but incur multi-

IoT devices rely on the cloud to capture, store and analyze sensor data. The cloud also supports intelligent control and monitoring of devices. With the

hop network latency when communicating with the cloud.







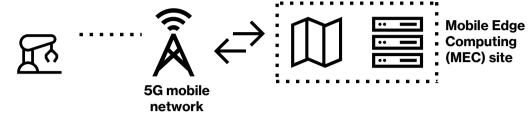
network





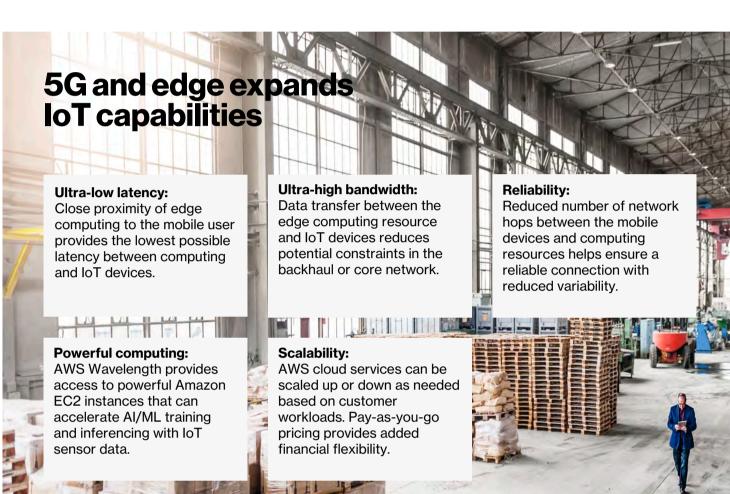
Regiona

5G and the mobile edge enable innovative low-latency IoT applications by reducing end-to-end delays and packet loss rates.



- autonomous IoT devices across many industry use cases.
 Minimal network hops to MEC site provides low-latency communication
- with powerful computing resources, including AI/ML services

Near real-time observability, rapid analysis and decisioning supports



Healthcare is being reshaped by IoT. Sensor-enabled Internet of Medical Things (IoMT) has been used to monitor patients for many years. Implanted

Internet of Medical Things example

devices and wearables deliver critical information on patient health.

5G and edge computing can improve IoMT device mobility, security and enable new capabilities by reducing access latency to powerful compute and

AI/ML services. Applying AI/ML to IoMT data can bring unprecedented insight, improving the quality and timeliness of healthcare decisions.

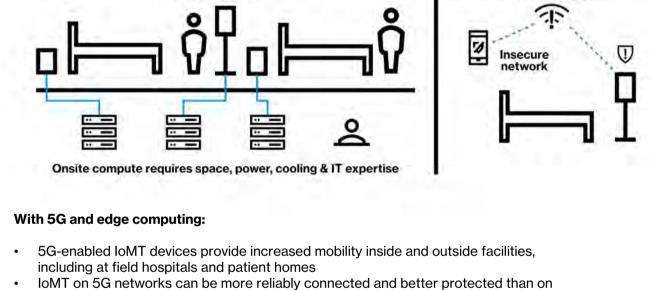
Without 5G and edge computing:

Costly and expensive-to-maintain computing equipment onsite or in private data centers

Relying on public cloud for IoMT applications involves delays that prevent real-time use cases such as vital sign monitoring Limited mobility of IoMT devices — either wired, or WiFi restricts them to in-facility use

- IoMT devices that follow patients home are subject to insecure home WiFi networks with spotty network performance
- 45

Limited mobility



Inconsistent WiFi

performance

Reliable and secure 5G connection in-home and everywhere Low latency MEC access allows

insecure home WiFi networks 5G and MEC enable low-latency near real-time IoMT use cases like monitoring patient vitals

- Use of MEC computing facilities reduces need for onsite compute, increasing the number of facilities that can benefit from low-latency IoMT
- Increased IoMT device mobility inside and

outside of healthcare facilities



AWS Wavelength is located with Verizon's 5G Verizon 5G Edge is protected from direct

loT applications can use Verizon Edge Discovery

Service (EDS) in real-time to find the closest

mobile core, providing the lowest latency and

most reliable access to cloud computing for data



processing and storage.

AWS Wavelength instance.

Full-access to rich computing resources enables rapid analysis of IoT data for quick decisioning and near real-time controls.

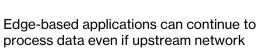


security.

to powerful EC2 instances for AI/ML training or inferencing using IoT data.

internet access and relies on secure mobile

identity management, providing increased



connections are down, improving network resiliency and IoT application availability.



Getstarted.

Verizon 5G Edge with AWS Wavelength delivers low-latency IoT with a smaller

onsite footprint, a lower starting cost, pay-as-you-go pricing, and comes with

a large ecosystem of developer and professional services support.

verizon.com/5gedgeawswavelength



Learn more

