U.S. Enterprise Edge Computing Spending Forecast, 2019-2024

Market Study
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A Market Study

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Abstract

Edge computing (EC) – and there are several different versions/approaches – emerged on the wireless industry stage several years ago. It has the potential to be as disruptive a technology as anything that is being discussed today – 5G, NFV/SDN, Open RAN, etc. In fact, edge computing is quite likely to help realize the promise of 5G particularly since the new 5G system architecture is designed to capitalize on virtualization.

*iG*R defines an edge computing hardware platform as a secure, virtualized platform which can be "opened up" to third parties – content providers, application developers, etc. That platform might incorporate an LTE radio (including the CBRS band), Wi-Fi, 5G NR or some combination of them. Today, most edge compute implementations use Ethernet and/or Wi-Fi and not cellular. Over time, *iG*R believes that will change as more private LTE networks (primarily based on CBRS) get deployed and more 4G/5G-based IoT devices are brought to market.

In this market study, *iG*R discusses edge computing, especially how it relates to the mobile industry, provides in depth case studies of successful edge computing deployments, and forecasts enterprise spending on EC-based solutions for the U.S. market from 2019 to 2024.

Key questions addressed in this market study include:

- What is edge computing and how does it work?
- What is the ETSI Multi-access Edge Computing (MEC) initiative?
- What are the focuses of other edge computing consortiums and initiatives, such as Open Networking Foundation (ONF), CORD Project, Open Edge Computing (OEC), Open Compute, EdgeX Foundry, 5G Future Forum and Telco Edge Cloud?
- How does edge computing relate to the public cloud, especially when a mobile operator (MNO) deploys at the edge? What are some recent MNO / public cloud partnerships?
- To date, where and how have edge computing solutions been successfully deployed?
- What are some of the perceived benefits and issues related to edge computing?
- Which vendors have products and services to support edge computing?

- What are the edge computing strategies / initiatives / partnerships of the major U.S. mobile operators?
- What is the total addressable market for edge computing in the U.S?
- How many commercial buildings, manufacturing buildings and agricultural sites (farms) will likely deploy edge computing in the U.S. over the next five years??
- How much enterprise spending is likely to occur on EC-based solutions?

Who should read this report?

- Data center OEMs and operators
- Mobile operators
- Infrastructure OEMs
- Computing infrastructure OEMs
- Small cell product and solution vendors
- Backhaul service providers and equipment OEMs
- Financial analysts and investors.