U.S. Enterprise Edge Computing Spending Forecast, 2018-2023

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 New Radio, NFV/SDN, C-RAN, etc. In fact, EC is quite likely to help realize the promise of 5G particularly since the new 5G system architecture is designed to capitalize on virtualization.

In this report, *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 private LTE networks (primarily based on CBRS) get deployed and more 4G/5G-based IoT devices are brought to market.

In this report, *iG*R forecasts enterprise spending on EC-based solutions for the U.S. market.

Key questions addressed in this market study include:

- What is EC?
- How does EC work?
- How does EC relate to other edge computing initiatives, such as OpenFog, CORD Project, Open Edge Computing (OEC), Open Compute, and EdgeX Foundry?
- What can be done with EC?
- What are some of the perceived benefits and issues related to EC?
- What are some of the perceived negatives and issues related to indoor small cells?
- What are the key drivers for implementing EC?
- How many commercial buildings will have EC deployed?
- 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.