

Global 5G Core Network Spending Forecast, 2018-2028: It's a Marathon

Market Study
First Quarter, 2019





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A Market Study

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Abstract

5G networks are the next step forward in mobile/cellular networks. They are characterized by very high downlink (and uplink) speeds, low latency, a flat network architecture with split control and user planes, and a services-oriented focus.

This report:

- Provides a high-level overview of the 5G core network and system architecture
- Shows how the various pieces work together without getting too bogged down in the details
- Shows how an operator can migrate from their current LTE network to a 5G New Radio network complete with a 5G Core
- Provides a ten-year forecast of mobile operator spending on 5G Core Network-based solutions in North America, Europe and Asia-Pacific.

Key questions addressed in this market study include:

- What is 5G? What are the basic use cases associated with 5G?
- What is the 5G Core Network? How does it differ from the LTE core network?
- What is different about the 5G RAN as compared to the LTE RAN?
- What are the different options for migrating from the LTE core network to the 5G core network?
- What are the likely migration paths for mobile operators in the U.S. currently operating LTE networks?
- What option might a greenfield 5G network operator choose?
- How much are mobile operators in North America, Europe and Asia Pacific likely to spend on 5G Core Network-based solutions?

Who should read this report?

- Mobile operators
- Infrastructure OEMs
- Computing infrastructure OEMs

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- Small cell product and solution vendors
- Backhaul service providers and equipment OEMs
- Financial analysts and investors.

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