

5G Wireless: Technology Evolution & Service Provider Strategies

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Although many operators are still ramping their 4G LTE deployments, 5G has become a major topic of conversation and planning for cellular operators, with a broad expectation of initial standards and product availability in the 2020 timeframe. As 5G standardization progresses, initial 5G definitions have centered on use cases and market requirements that [5G networks](#) will support. Unlike previous wireless technology generations that focused largely on delivering more data, 5G requirements include: low latencies, energy efficiency, spectrum flexibility, high reliability and massive user scale. The market adoption for 5G services is being driven by various industry associations having focus on specific regions along with increasing collaboration amongst telcos and vendors.

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Key Findings

- While 5G is garnering much interest as the next major generation of cellular wireless technology, 5G's differentiation from previous wireless technologies is a focus on diverse capabilities beyond higher bandwidths. These new capabilities promise to help operators address diverse new business targets (enterprise and vertical industries).
- Evolutions of 4G LTE air interfaces are only one way in which LTE technologies will support and be integrated into 5G. Carrier aggregation, cell density improvements and virtualization are all being applied to LTE and should help operators bridge the gap between 4G and 5G service capabilities.
- Standards and global regulatory efforts suggest 5G commercialization in the 2020 timeframe, but industry groups and key global events are driving for pre-commercial trials and launches before that – around 2018 or earlier.
- As operators and vendors plan for 5G, LTE evolutions will be compelling investments. Driven by a handful of vendors, so-called 4.5G technologies will help to execute on 5G use cases before 5G is



technically available

- Among the capabilities at the forefront of 5G visions are: spectrum flexibility (including the use of unlicensed and high-frequency spectrum), energy efficiency, low-latency, high-reliability, higher data rates, high-speed mobility and the ability to support massive user scale (many more devices than supported today).

Synopsis

'5G Wireless: Technology Evolution & Service Provider Strategies' a Telecom Thematic Report by Pyramid Research, describes the state of 5G technologies and standards, analyse the market drivers and detail a number of industry and service provider initiatives that highlight how 5G is moving towards commercialization. Where 5G standards are still being developed and defined, we position potential 5G use cases in terms of proposed technology candidates, tying standardization, regulatory and carrier momentum into an explanation of when 5G networks are likely to get deployed and commercialized. We conclude by outlining what operators, vendors and regulators must do to execute on the promise of 5G.

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The report is organized as follows:

- 5G – What It Is and Why It's Needed: This section highlights the current state of mobile data market and the evolution of various wireless technology generations.
- 5G Foundations – Use Cases, Technologies, and Standards: This section includes an overview of various potential use cases of 5G, as well as an analysis of new spectrum usage and air interfaces and RAN and core architecture supporting/facilitating the evolution to 5G.
- 5G Operator Case Studies and Industry Initiatives: This section examines the initiatives for the commercialization of 5G including their focus areas by various industry associations, details of major operator-vendor partnerships alongwith three case studies highlighting 5G deployments and initiatives.
- What's Next for 5G: This section provides an outlook on timelines for spectrum allocation and standardization as well as deployments of 5G services and examines positioning and marketing strategies for 5G.
- Key findings and recommendations: This section provides main conclusions as well as Pyramid Research's recommendations for regulators, network operators and vendors.

Reasons To Buy

- Provides insights on the state of 5G technologies and standards and the market drivers and industry and service provider initiatives that highlight how and when 5G is moving towards commercialization.
- Facilitates the operators and technology vendors identify potential 5G use cases in terms of proposed technology candidates.
- Gain an understanding of what operators, vendors and regulators must do to execute on the promise of 5G.
- Examine the development of 5G through a set of three case studies, highlighting 5G deployments and commercialization initiatives across Europe, Japan and USA.
- Delivered in high presentation quality, which enables it to be turned into presentable material immediately, for an executive-level audience.

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