

5G - A Business Perspective

5G is generating a lot of discussion as the successor to 4G LTE. This primer looks carefully at 5G and provides a well-reasoned view of the technology and its potential. It brings a practical clarity to the question 'What is 5G?', defining 5G and covering important 5G terms and concepts. It helps participants explain why not all 5G is created equal, and explores the inherent flexibility built into the 5G specification. It also provides a perspective on the applications and monetization potential for this new technology.

Intended Audience

Those in business roles who need to speak accurately and confidently about 5G and its applications.

Objectives

After completing this course, the student will be able to:

- Concisely define 5G
- Describe three areas of flexibility designed into 5G
- Explain the benefits and challenges of deploying 5G in millimeter-wave and low-band spectrum
- Describe different approaches that operators will take in deploying 5G
- List and defend several key applications of 5G
- Describe the 5G landscape in terms of the ecosystem and major players

What You Can Expect

- Expert-Led Live Duration: 4 HOUR

Outline

1. 5G in a Nutshell

- 1.1 5G: What and why
- 1.2 5G performance targets
- 1.3 5G flexibility: three key applications
- 1.4 The 5G roadmap
- 1.5 5G New Radio (NR)

2. 5G: The Radio Side

- 2.1 5G, spectrum implications and millimeter wave spectrum
- 2.2 Massive MIMO and beamforming
- 2.3 5G: How fast?
- 2.4 Low latency: How low, and who cares?
- 2.5 Edge Computing and Multi-Access Edge Computing (MEC)
- 2.6 What does ultra-reliable mean in 5G?
- 2.7 5G: Separating hype from reality

3. 5G: The Network Side

- 3.1 5G Non-Standalone (NSA) New Radio
- 3.2 5G Standalone (SA) New Radio
- 3.3 The virtualized core
- 3.4 Network slicing

4. 5G Deployment Approaches

- 4.1 5G for coverage
- 4.2 5G for speed
- 4.3 5G for fixed access

5. Monetizing 5G

- 5.1 Applications enabled by 5G
- 5.2 5G business models
- 5.3 5G for fixed wireless
- 5.4 5G for the enterprise
- 5.5 5G and IoT