Future of 4G Technologies

This report defines 4G and provides an overview of the trends and drivers behind the shift towards the new technologies. It explains how regulatory factors and industry actions are shaping the deployment and adoption of the technology. It examines different 4G technology candidates and identifies the threats and opportunities for ICT players. Finally, it examines how leading ICT players are exploiting 4G.

Features and Benefits

- Review the current technologies, regulatory factors and industry support impacting the adoption of 4G technologies.
- Identify key changes in consumer usage behavior that drive the need for the greater speed and spectral efficiency afforded by 4G.
- Review the current technologies, regulatory factors and industry support impacting the adoption of 4G technologies.
- Identify the technology family best suited to a chosen 4G strategy based on each technology's characteristics and individual corporate circumstances.
- Identify the various initiatives in support of each technology candidate in order to revise considered.

Highlights

Consumers are generating increasingly high volumes of mobile data traffic, which is leading to congestion and network performance issues. 2G still accounts for most mobile connections worldwide but increasingly high pockets of data traffic in some markets, combined with changing user needs, are rendering current mobile technologies inadequate.

Industry and consumers have a strong interest in pre-4G technologies such as Mobile WiMAX and LTE that can increase data rates and capacity dramatically. Both technologies are marketed as 4G despite not meeting the IMT Advanced requirements. While Mobile WiMAX is already available in places, deployment of LTE is only just starting.

A number of established network operators, handset manufacturers and infrastructure providers have opted for a flexible 4G strategy tailored to their different markets. Real 4G is still at least 2-3 years away from full commercial deployment but when it hits full swing 4G will have a lasting impact on the ICT environment.

Your key questions answered

- What are the major trends and drivers behind the adoption of 4G, what are the main 4G protocols and what is their appeal?
- What technologies, products and services will influence the rollout of 4G, who are the key players and how do they position themselves?
- What are the main threats posed by the deployment of 4G and how can companies protect themselves?
- How can ICT vendors and consumer electronics companies exploit the opportunities afforded by 4G?
- How will 4G impact the ICT market in the next 3-5 years?

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