

EVOLUTION OF MOBILE COMMUNICATION NETWORK : FROM 1G TO 4G

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Abstract

The demand of mobile and internet is increasing day by day, they are becoming the preferred means of personal and professional communication, giving a new dimension to the telecom industry. To meet up the users demand more and more advancement is being done in the field of communication. This paper gives an overview of the evolution of wireless network technologies from 1G to 4G commonly known as first generation (1G), second generation (2G), third generation (3G) and the fourth generation (4G), the emerging technologies in the field of communication. The first generation mobile communication provided the basic voice communication facility, whereas the second generation supports both the voice and data services. Then the third generation came into existence which gave a boom to the telecommunication industry as it offers subscribers a wide range of data services, such as mobile Internet access, video conferencing and multimedia applications. But as the demand increased the communication industry moved towards a new generation known as fourth generation with much more advanced features in addition to the usual voice and other services of 3G. The 4G provides mobile ultra-broadband Internet access and provides users with much faster data transmission rates. Priorities for this standard include better reception, with less dropped data, IP interoperability for seamless mobile internet, faster information exchanges and much more.