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# What is UMTS(Universal Mobile Telecommunication System)?

Difficulty Level: Hard • Last Updated: 28 Jun, 2022





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UMTS or Universal Mobile Telecommunications Framework, is the 3G successor to the GSM family of measures counting GPRS and EDGE. 3G UMTS employments a completely diverse radio interface based around the utilize of Coordinate Grouping Spread Range as CDMA or Code Division Multiple Access. Although 3G UMTS employments a completely distinctive radio get to standard, the center arrange is the same as that utilized for GPRS and EDGE to carry partitioned circuit exchanged voice and bundle data.



UMTS employments a wideband adaptation of CDMA possessing a 5 MHz wide channel. Being more extensive than its competition CDMA2000 which as it was utilized a 1.25MHz channel, the tweak conspire was known as wideband CDMA or WCDMA/W-CDMA. This title was regularly utilized to allude to the total framework. It could be a frame of media transmission utilized for remote



transmission times between gadgets and servers.

#### **UMTS Applications**

- Streaming / Download (Video, Audio)
- Videoconferences.
- Fast Internet / Intranet.
- Mobile E-Commerce (M-Commerce)
- Remote Login
- Background Class applications
- Multimedia-Messaging, E-Mail
- FTP Access
- Mobile Entertainment (Games)

#### **Features of UMTS**

- UMTS could be a component of IMT-2000 standard of the Universal Broadcast communications Union (ITU), created by 3GPP.
- It employments wideband code division multiple access (W-CDMA) discuss interface.
- It gives transmission of content, digitized voice, video and multimedia.
- It gives tall transmission capacity to portable operators.
- It gives a tall information rate of 2Mbps.
- For High-Speed Downlink Parcel Get to (HSDPA) handsets, the data-rate is as tall as 7.2 Mbps within the downlink connection.
- It is additionally known as Flexibility of Mobile Multimedia Access (FOMA).

## **Advantages of UMTS**

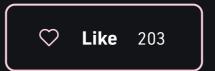
- UMTS could be a successor to 2G based GSM advances counting GPRS and EDGE. Gaining a 3rd title 3GSM since it could be a 3G relocation for GSM
- Support 2Mbit/s information rates.
- Higher Information rates at lower incremental costs.
- Benefits of programmed universal wandering also necessarily security and charging capacities, permitting administrators emigrate from 2G to 3G whereas holding numerous of their existing back-office frameworks
- Gives administrators the adaptability to present unused mixed media administrations to trade clients and buyers
- This not as it were gives client a valuable phone but moreover deciphers higher incomes for the administrator.

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