

WiMAX - SUMMARY

http://www.tutorialspoint.com/wimax/wimax_summary.htm

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This tutorial teaches you most of the basics of WiMAX. This tutorial should be your starting point and you have lot of things to refer to become a master in WiMAX. So, please check WiMAX Useful Resources chapter of this tutorial for more information on WiMAX.

I am summarizing few points related to WiMAX:

- WiMAX is based on a very flexible and robust air interface defined by the IEEE 802.16 group.
- WiMAX is similar to the wireless standard known as Wi-Fi, but on a much larger scale and at faster speeds.
- The WiMAX physical layer is based on OFDM, which is an elegant and effective technique for overcoming multipath distortion.
- The physical layer supports several advanced techniques for increasing the reliability of the link layer. These techniques include powerful error correction coding, including turbo coding and LDPC, hybrid-ARQ, and antenna arrays.
- WiMAX supports a number of advanced signal-processing techniques to improve overall system capacity. These techniques include adaptive modulation and coding, spatial multiplexing, and multiuser diversity.
- WiMAX has a very flexible MAC layer that can accommodate a variety of traffic types, including voice, video, and multimedia, and provide strong QoS.
- Robust security functions, such as strong encryption and mutual authentication, are built into the WiMAX standard.
- WiMAX defines a flexible all-IP-based network architecture that allows for the exploitation of all the benefits of IP.
- WiMAX offers very high spectral efficiency, particularly when using higher-order MIMO solutions.

WiMAX Forum™ is an industry-led, non-profit corporation formed to promote and certify compatibility and interoperability of broadband wireless products.

WiMAX Forum Certified™ products will be based upon a single global standard IEEE 802.16 enabling complete interoperability worldwide.

What is Next?

IEEE 802.16 products are in the final phases of commercial development with initial trial deployments already underway. So be ready for a new wireless revolutionary phase.

You might be interested to know more about WiMAX. So please check [WiMAX Useful Resources](#).

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Thanks.