Abstract

In this recent era wireless communication industries have focused on the uses of broadband system having high quality functions. Because of this issue new advances with high transmission capability technologies are designed. The broadband wireless access turns into the best approach to satisfy the high business interest for expanding the web connection. WiMAX ("Worldwide Interoperability for Microwave Access") is a broadband wireless technology is developed to meet the growing demand of increased data rate and accessing the internet at high speeds as well as low cost maintenance. It is based on the IEEE 802.16-2004 standard family. In this system allows using an efficient bandwidth in a wide frequency range, and last mile solution for broadband internet access. The jamming and scrambling are two important threats in WiMAX system. This paper presents the simulation of WiMAX system with and without impact of jamming signals. The performance parameter BER of the system is analyzed in all conditions and the result implies the enormously changes with the utilization of distinctive jamming signals. The aim of this paper is to analyze and simulate WIMAX OFDM system in the presence of interference signals. MATLAB Simulink software is used to simulate and analyze
the WIMAX system. The simulation results include the performance analysis based on bit error rate (BER) versus signal to noise rate (Eb/No).

References

6. Rakesh kumar Jha and Dr.Upena Dalal “Performance analysis under the influence of jamming for WiMAX systems”, Published in IEEE- 2011.
7. Payaswin p and Manjaiah D.H “Analysis of Effect of cyclic prefix on Data rates in OFDM Modulation techniques” from Mangalore University October 2012.
8. Vivek kumar Jaiswal, Mr.G.S. Tirupathi “Performance Evaluation of WiMAX based OFDMA System in Multipath Fading Channel” published at IJAREEIE in June 2013

Index Terms

Computer Science Wireless
Keywords

WIMAX, Jamming Signals, OFDM, BER, SNR