Abstract

People all over the world want to stay connected by audio as well as video services. 3G provide this facility. WLAN provides better data speeds at lower rates. In a wireless network various multiple access technologies such as wireless LAN and UMTS are used because cellular networks like UMTS provide various voice and data services and WLAN provides high speed. Integration of these two allows operators to deploy low cost and high speed WLAN to cover hotspot. Furthermore the architecture of WLAN and UMTS integration allows mobile nodes to continue data connection (ps) through WLAN and voice connection (cs) in parallel. In this paper WLAN and UMTS architecture along with its advantages and handover scheme is being proposed.

References

Renewed Approach of Integration WLAN & UMTS and Handover

- Matthew Gast, 802.11 Wireless Networks – The Definitive Guide, O'Reilly, 2002
- Aziz, A.; Saad, N. M.; Samir, B. B.; Dept. of Elect. & Electro Eng, Univ. Teknol. Petronas, Tronoh, Malaysia; A comparative analysis of integration schemes for UMTS and WLAN networks &quot;Circuits and Systems (APCCAS), 2010 IEEE Asia Pacific Conference on 6-9 Dec. 2010
- A Comparative Analysis of Integration Schemes for UMTS and WLAN Networks Safdar Rizvi, Asif Aziz, N. M. Saad, Brahim Belhaouari Samir, Department of Electrical and Electronic Engineering, University Technology Petrona 31750 Tronoh, Perak, Malaysia, 978-1-4244-7456-1/10, 2010 IEEE
- M. A. Amara, "Performance of WLAN and UMTS integration at the hot spot location using opnet", 2003-2006
- An Architecture for Integrating UMTS and 802.11 WLAN Networks, Muhammad Jaseemuddin Dept. of Electrical & Computer Engineering, Ryerson University, 2009
- Zhi Ren, Guangyu Wang, Qianbin Chen, Hongbin Li "Modeling and simulation of Rayleigh fading, path loss, and shadowing fading for wireless mobile networks", Simulation Modeling Practice and Theory 19 (2011)
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