Abstract

In recent times, wireless network is extensively accessed technology to connect remote user terminal with its primary network. QoS is the vital parameter that can be treated wisely when data is transferred between terminal users and network administrators. In WiMax, QoS is determined accurately at MAC layer but bandwidth allocation scheduling algorithm which defines QoS is not clearly defined in IEEE 802.16 network architecture. This paper evaluates and compare various existing algorithms and enlighten different issues in designing of these algorithms, furthermore a new bandwidth allocation scheduling algorithm is proposed for IEEE 802.16 WiMax protocol in order to improve Quality of Service (QoS).

References

Bandwidth Allocation Scheduling Algorithms for IEEE 802.16 WiMax Protocol to Improve QoS: A Survey

- Ayman Khalil and Adlen Ksentini, 2005, Classification of The Uplink Scheduling Algorithm in IEEE 802.16, IRISA/ Université de Rennes 1 Campus Universitaire de Beaulieu 35402 Rennes Cedex.
- Mitko Bogdanoski, Pero Latkoski, Aleksandar Risteski, Borislav Popovski, 2008, IEEE 802.16 Security Issues: A Survey, Faculty of Electrical Engg. & Information Technology, SS. Cyril and Methodius University, Macedonia, 16th TELFOR.
- Sonia Nazari, Hamid Beigy, 2010, Department of Information Technology Kish Campus, Sharif University of Technology Kish Island, Iran, A New Distributed Uplink Packet Scheduling Algorithm in WiMax Network, IEEE, 978-1-4244-5824-0.
- Seungwoon Kim and Ikjun Yeom, 2010, TCP-Aware Uplink Scheduling for IEEE802.16, IEEE Communication Letters, ISSN:XX, VOL. X
- Akashdeep, Karanjeet S. Kahlon, Harish Kumar, 2014, Survey of Scheduling Algorithm

**Index Terms**

Computer Science  
Algorithms

**Keywords**

WiMax  
Schedule  
QoS  
Bandwidth Allocation Scheduling  
IEEE 802.16