

ABSTRACT

Information technology has grown rapidly, especially for wireless communication, there is a highly efficient technology that is OFDMA. Orthogonal Frequency Division Multiple Access (OFDMA) is a technology that allows the development of OFDM actually transmit data at high speed because it uses orthogonal frequency.

The continued development of technology, users are also increasing. This sometimes causes a decreased speed and large bandwidth usage. However, OFDMA can improve the efficiency of bandwidth usage for dividing bandwidth by allocating power.

One method of resource allocation is Dynamic Subcarrier Allocation (DSA). This method is used in multi-user communication to maximize the sharing of capacity and meet the needs of the service delay in real time.

Keywords: OFDMA, DSA, multi user