

## ABSTRACT

Internet technology based on Wi-Fi is made and developed by a group of USA engineer who work at Institute of Electrical and Electronics Engineers (IEEE) according to hardware technical standard no 802.11b, 802.11a dan 802.11g. Wi-Fi equipment not only capable to work in a WLAN, but also in a Wireless Metropolitan Area Network (WMAN).

The user quantity increasement based on Wi-Fi technology is becoming a global symptom around the world, has pushed Internet service providers (ISP) to create hotspot in big cities of the world. *Hotspot is a place where there is provided a network connection for users to access an intranet or internet without depending on physical networks such as PDA, Handphone, Laptop or a notebook computer.*

Planning of hotspot *Wi-Fi* at Savoy Homann Bidakara Hotel consist of determination of network topology, estimation number of *access point* and its position to gain an optimum coverage area with *Attenuation Factor* and *Soft Partition Model*.

Planning result shows that Wi-Fi network use infrastructure topology with consist of 2 access point include 1 access point at Lobby and 1 access point at Savoy Meeting Room with throughput actual each user 2.6915 Mbps at Lobby and 3.2605 Mbps at Savoy Meeting Room.