

Wireless LAN (Jaringan Nirkabel)

**Seminar Wireless LAN
STMIK Amikom Yogyakarta
28 Juni 2005**

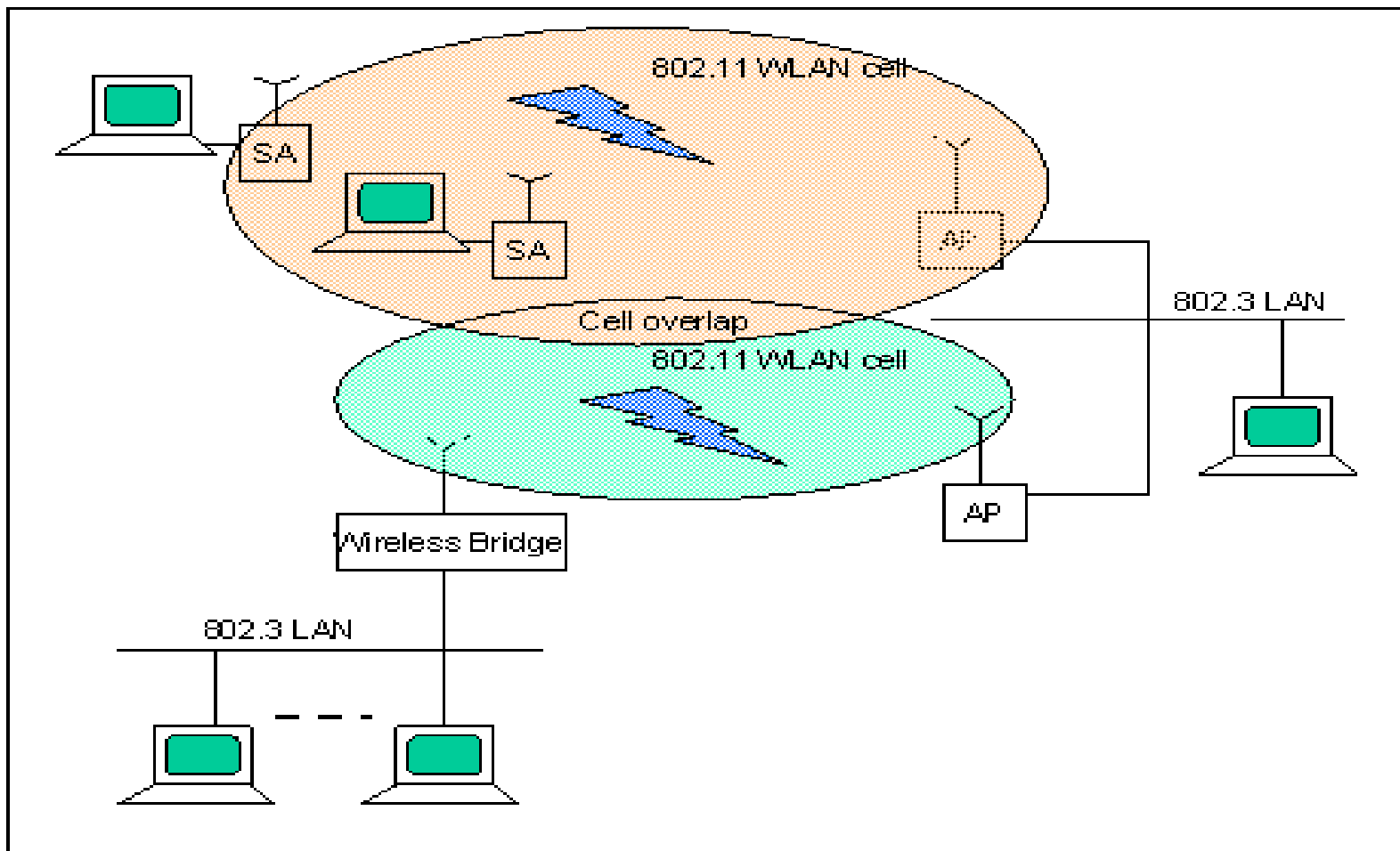
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josh at gadjahmada edu**

Perkenalan Wireless LAN

- Definisi
- Wireless LAN disingkat WLAN ~ Wi-Fi (Wireless Fidelity)
- System arsitektur seluler dibagi menjadi sel-sel
- Tiap sel yang disebut BSS (Base Service Set) dikendalikan oleh Base Station (Access Point disingkat AP)

Perkenalan Wireless LAN

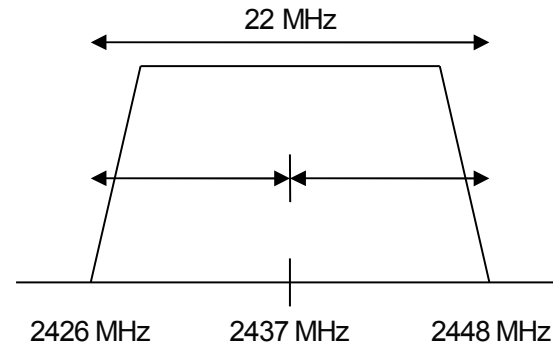
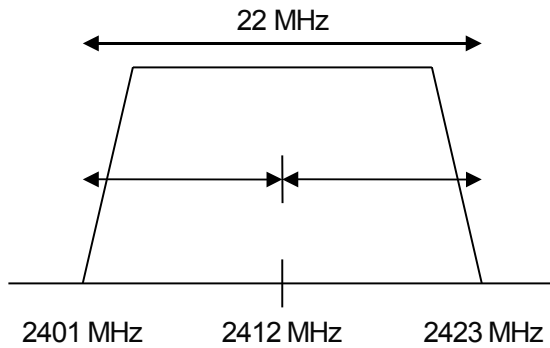
- Tujuan
Fleksibilitas dan Mobilitas
- Wireless LAN Standart IEEE 802.11
- IEEE 802.11 mencakup:
 - 802.11a, frek. 5Ghz, Max 54Mbps, OFDM
 - 802.11b, frek. 2.4Ghz, Max 11Mbps, DSSS
 - 802.11g, frek. 2.4Ghz, Max 54 Mbps, OFDM dan DSSS



- Tabel kanal Frekuensi IEEE 802.11b/g

Channel	Frekuensi	Channel	Frekuensi
1	2412 MHz	8	2447 MHz
2	2417 MHz	9	2452 MHz
3	2422 MHz	10	2457 MHz
4	2427 MHz	11	2462 MHz
5	2432 MHz	12	2467 MHz
6	2437 MHz	13	2472 MHz
7	2442 MHz	14	2484 MHz

- Penggunaan channel 1 dan channel 6



Komponen Wireless LAN

- AP (Access Point)
- *Wireless Network Interface Card* (WNIC) : USB, PCMCIA, PCI/PLX
- Mobile/Desktop PC : Laptop Centrino, PDA wireless.
- Antena

Topologi Wireless LAN

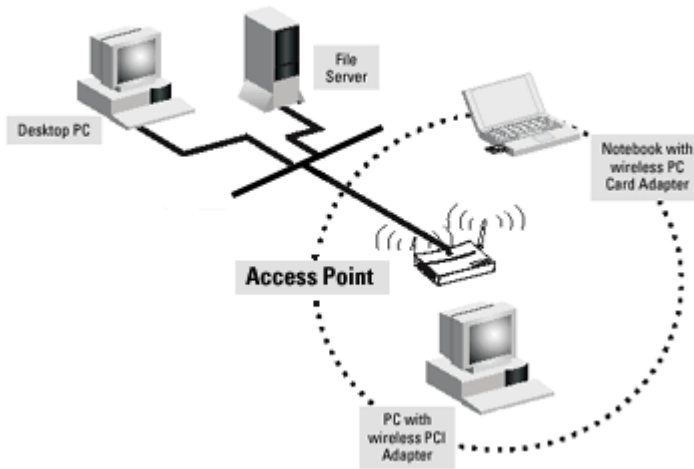
- Ad-hoc atau *Independent Basic Service Set (IBSS)*



Topologi Wireless LAN

- Infrastruktur atau *Basic Service Set* (BSS)

a)



b)

