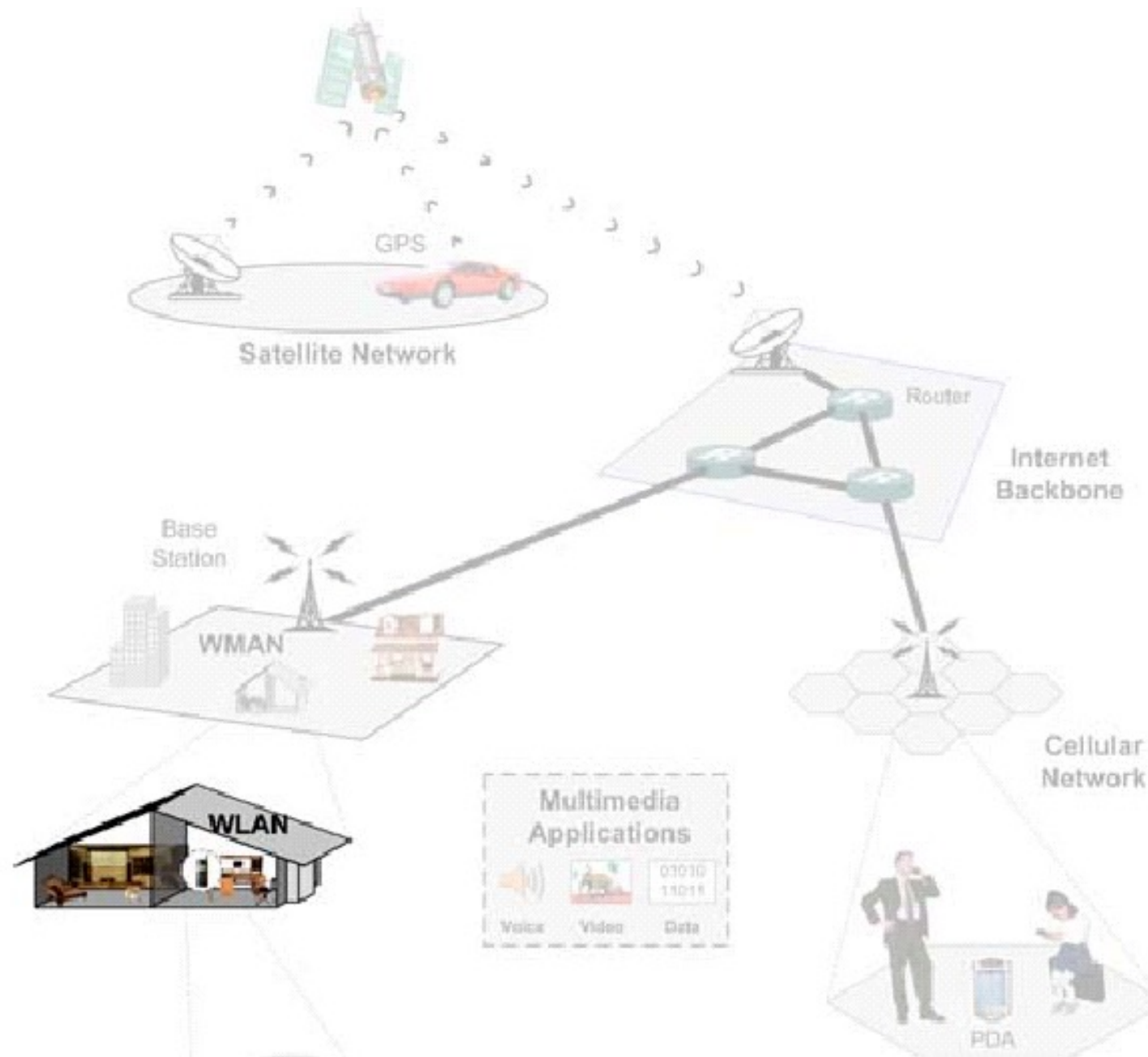
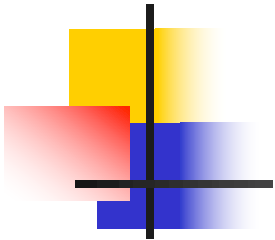




Wireless Local Area Networks (WLANs)

鄭瑞光

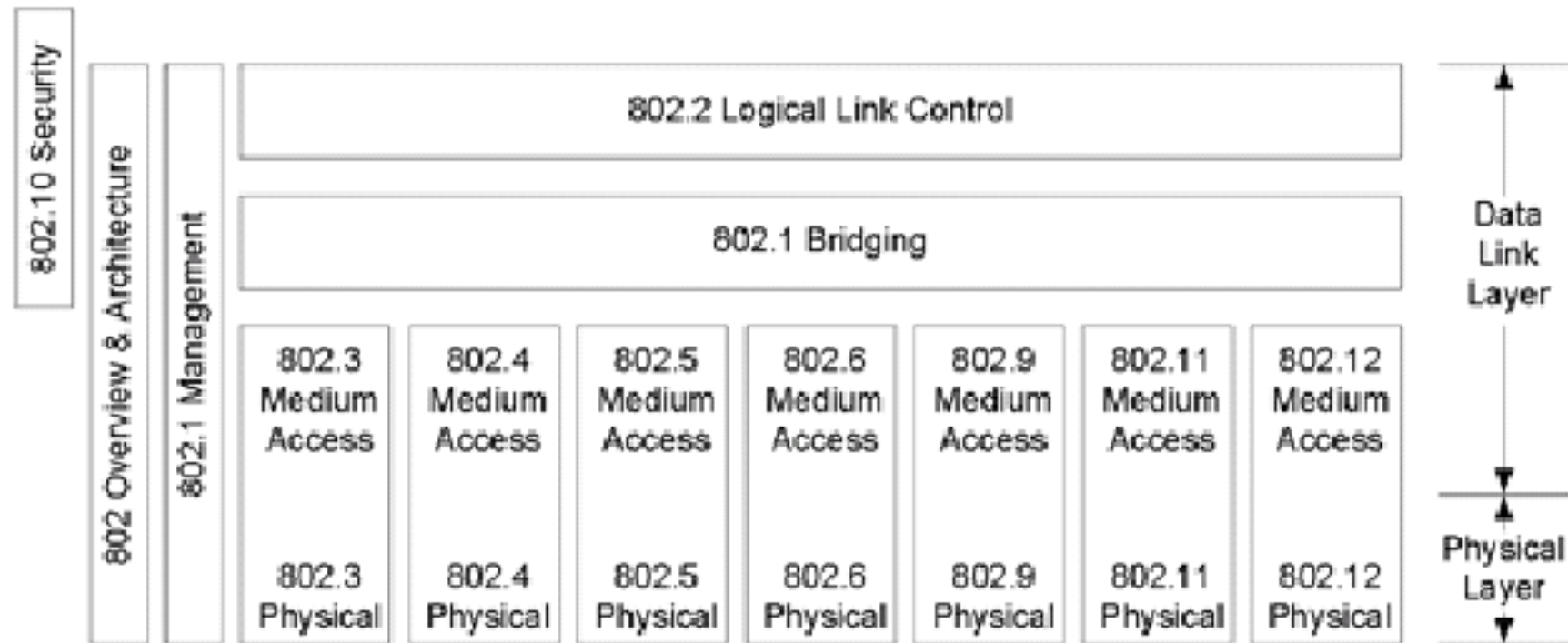
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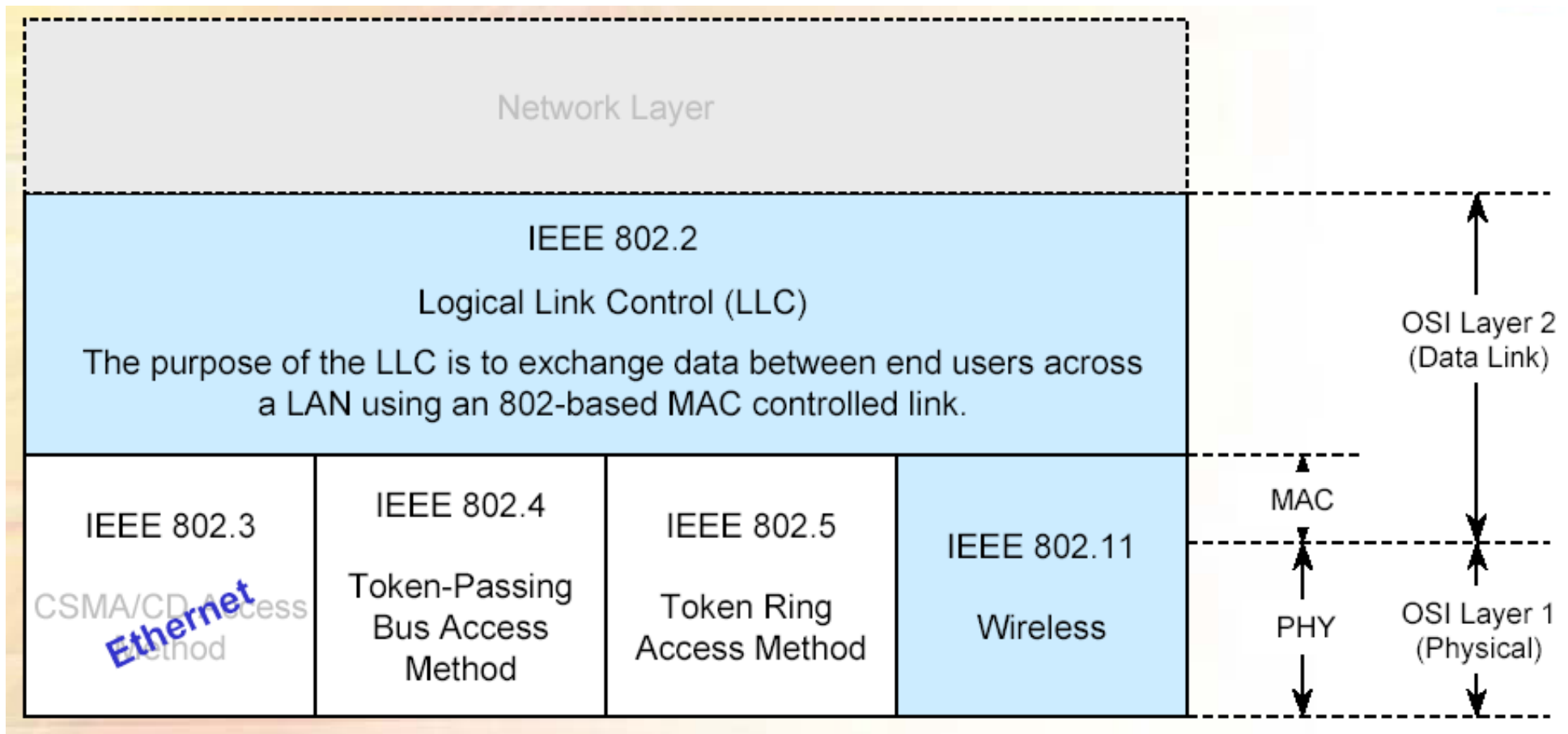




Outlines

- Chapter 4. IEEE 802.11
 - IEEE 802.11
 - IEEE 802.11e (QoS Extension)
- Chapter 5. HiperLAN
- Chapter 6. HomeRF







- Wireless media differs from the wired media in the following aspects:
 - No clear physical boundaries in which users can transmit and receive data.
 - Users can sometimes be covered by multiple WLANs.
 - a resolution mechanism is required
 - Users are susceptible to radio interferences
 - wireless media to be significantly less reliable than the wired media



- Users are mobile
 - it causes a dynamic network topology
 - a user can be temporarily hidden from some other network members.
- The power limitation
 - a limited range for the effective geographical coverage
 - installation of overlapping wireless LANs is required to cover an area.
- Many, if not most, of the wireless devices are battery powered
 - power saving is essential
 - user will be temporarily without service



WLAN

- Overview of 802.11 Networks
- 802.11 MAC
- An Overview of 802.11e

本章節使用通訊教育改進計畫交大簡榮宏教授之教材



Reference

- Matthew Gast, “802.11 Wireless Networks: The Definitive Guide,” O'Reilly, April 2002, ISBN : 0-596-00183-5