

# Local Area Networks 802.X

## Local Area Networks and 802

- IEEE formulated 802 standard for LAN.
- ITU (CCITT) adopted 802 as 8802
- Common media types are UTP and Co-axial cable.
- Topologies may be Ring\ Bus\ Star or Wireless.

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## Organisation of 802

- Layered within the Data-link and Physical layers of OSI protocol stack.
- Composed of
  - Physical Medium Dependent (PMD) layer.
  - Medium Access Control (MAC) layer.
  - Logic Link Control (LLC) layer.

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## 802 Standards

- **802.2 LLC (HDLC based)**
- **802.3 CSMA/CD Bus (Ethernet)**
- 802.4 Token Bus
- 802.5 Token Ring
- 802.6 DQDB
- 802.7 Broadband LAN using Coaxial Cable (disbanded)
- 802.8 Fiber Optic TAG (disbanded)
- 802.9 Integrated Services LAN (disbanded)
- 802.10 Interoperable LAN Security (disbanded)
- **802.11 WiFi**
- 802.12 demand priority (disbanded)
- 802.13 Not used (officially)
- 802.13ah Defines "Copper for the first mile" for Metro Area Networks (proposed)
- 802.14 Cable modems (disbanded)
- **802.15 Wireless PAN**
- **802.15.1 (Bluetooth certification)**
- **802.15.4 (ZigBee certification)**
- 802.16 Broadband Wireless Access (WiMAX certification)
- 802.16e (Mobile) Broadband Wireless Access
- 802.16.1 Local Multipoint Distribution Service
- 802.17 Resilient packet ring
- 802.18 Radio Regulatory TAG
- 802.19 Coexistence TAG
- 802.20 Mobile Broadband Wireless Access
- 802.21 Media Independent Handoff
- 802.22 Wireless Regional Area Network

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