

MAC Protocol In Wireless Communication

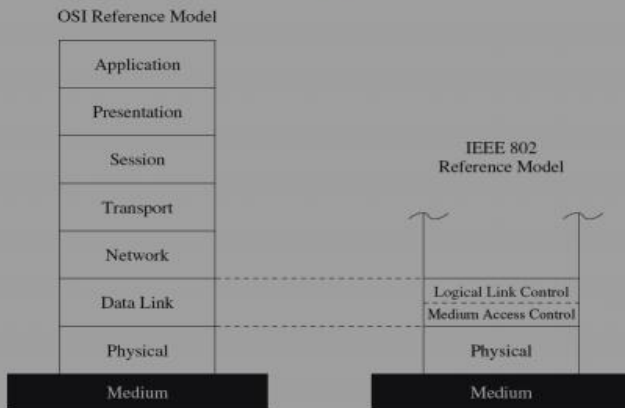
Elementrix Classes

Medium Access Control

- In most networks, multiple nodes **share a communication medium** for transmitting their data packets
- The **medium access control (MAC)** protocol is primarily responsible for regulating access to the shared medium
- The choice of MAC protocol has a direct bearing on the reliability and efficiency of network transmissions
 - due to errors and interferences in wireless communications and to other challenges
- **Energy efficiency** also affects the design of the MAC protocol
 - trade energy efficiency for increased latency or a reduction in throughput or fairness

Overview

- Responsibilities of MAC layer include:
 - decide when a node accesses a shared medium
 - resolve any potential conflicts between competing nodes
 - correct communication errors occurring at the physical layer
 - perform other activities such as framing, addressing, and flow control
- Second layer of the OSI reference model (**data link layer**) or the IEEE 802 reference model (which divides data link layer into **logical link control** and **medium access control** layer)



पढ़िए और पढ़ाइये

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