the link layer

Ethernet, Wi-Fi, Bluetooth, DOCSIS (cable modems), …

allows send/recv messages to machines on "same" network
segment
    typically: wireless range+channel or connected to a single switch/router
    could be larger (if *bridging* multiple network segments)
    could be smaller (switch/router uses "virtual LANs")

typically: source+destination specified with MAC addresses
    MAC = media access control
    usually manufacturer assigned / hard-coded into device
    unique address per port/wifi transmitter/etc.

can specify destination of "anyone" (called *broadcast*)

link layer quality of service

if message gets...

event	on Ethernet	on WiFi
collides with another	detected + may resend	resend
not received	lose silently	resent
header corrupted	usually discard silently	usually resend
data corrupted	usually discard silently	usually resend
too long	not allowed to send	not allowed to send