

Lecture 15 - Ethernet LANs

Exercise 1: How many possible OUI's are there? How many devices can be manufactured for each OUI?

3 bytes for OUI = 24 bits

but M.S. 2 bits must be zero (reserved for broadcast & multicast addresses)

∴ 22 bits can be used

$$2^{22} = 2^2 \times 2^{20} \approx 4 \text{ million}$$