

Ethernet LANs

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

OUI's: $2^{24} \approx 16$ million (3 bytes = 24 bits)
 devices per OUI: $2^{24} \approx 16$ million

Exercise 2: Classify each of a hub, learning bridge and switch according to the following: can operate in full-duplex mode, can have independent PHY rates, collisions can happen, can receive from multiple ports simultaneously.

		FD / HD	ind. PHY rate	collision	receive on multiple ports
1	hub	HD	NO	YES	NO
2	learning bridge	F/HD	YES	NO	YES
2	switch	F/HD	YES	NO	YES

