

# Network Interface Card and MAC Address

by:

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# Outline

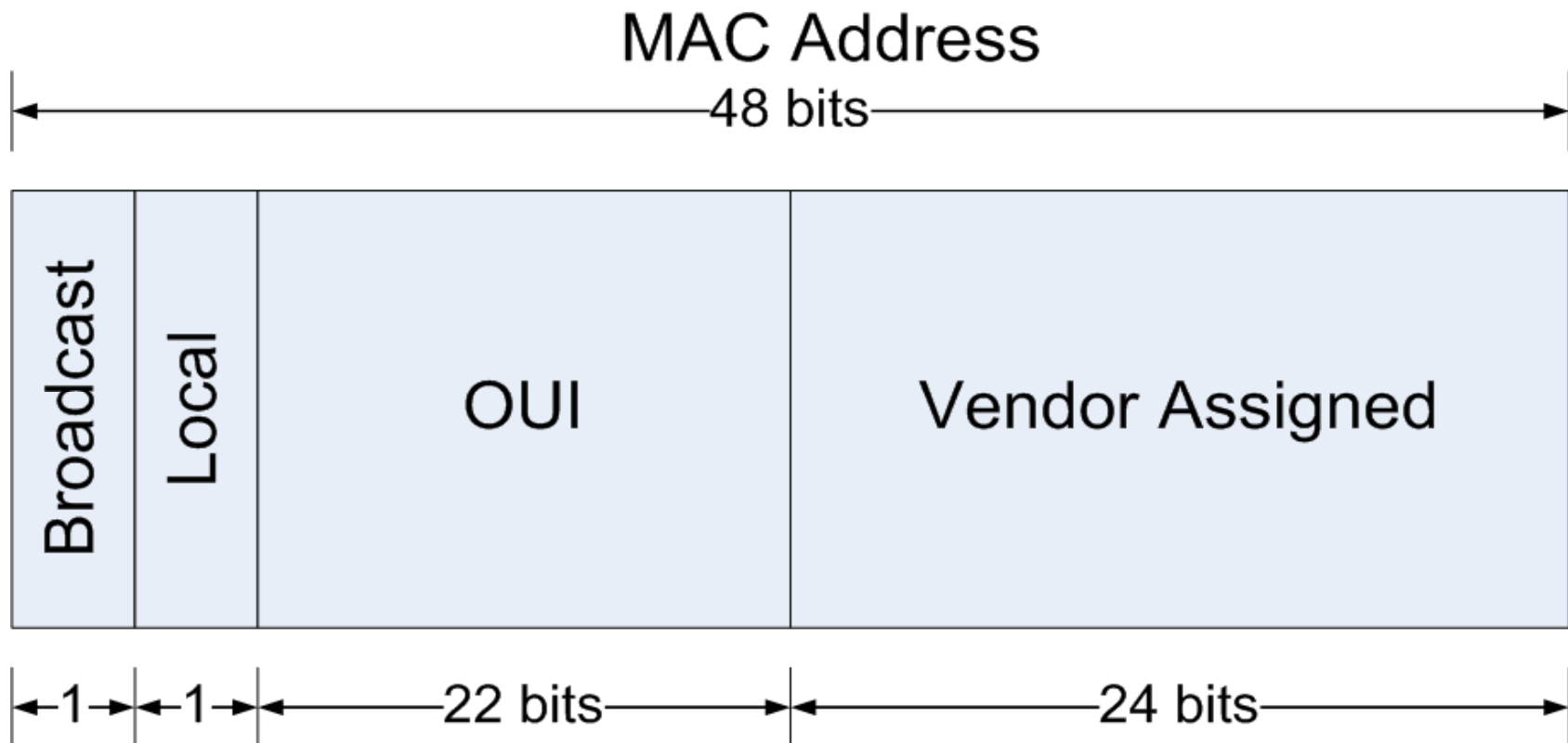
- Overview
- NIC
- Ethernet Addresses
- LAN Communication
- Summary

# Network Interface Card

- This card connects PC to the network
- The data is converted to electronic signals
- We need the card which would match communication standard we use.



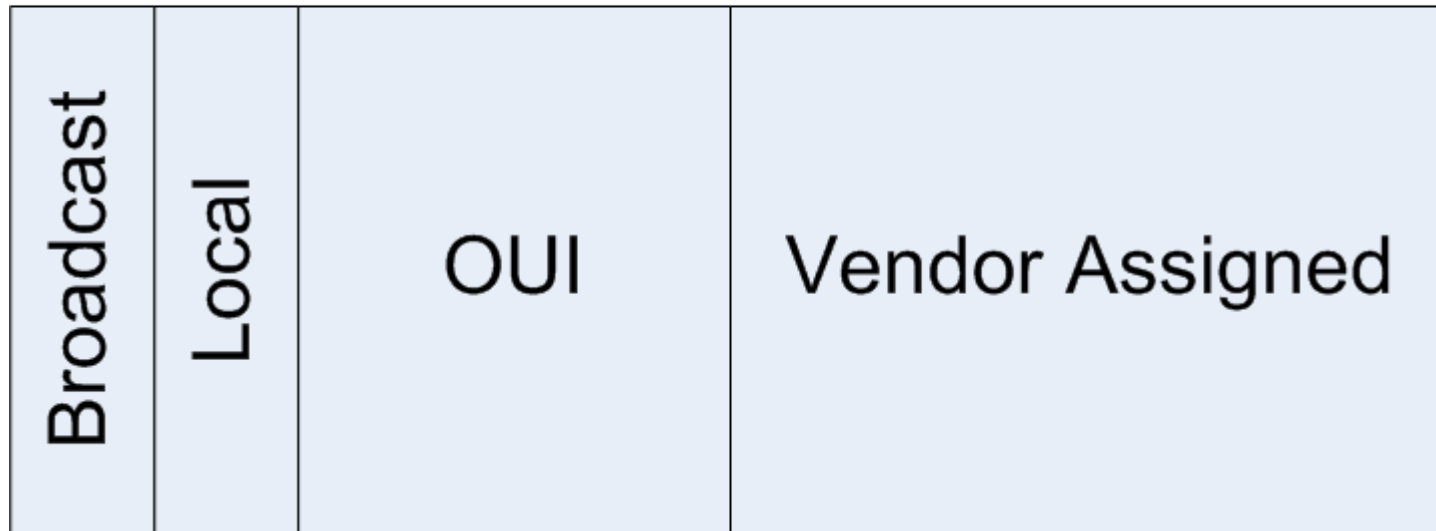
# MAC Address Components



- Organizationally Unique Identifier

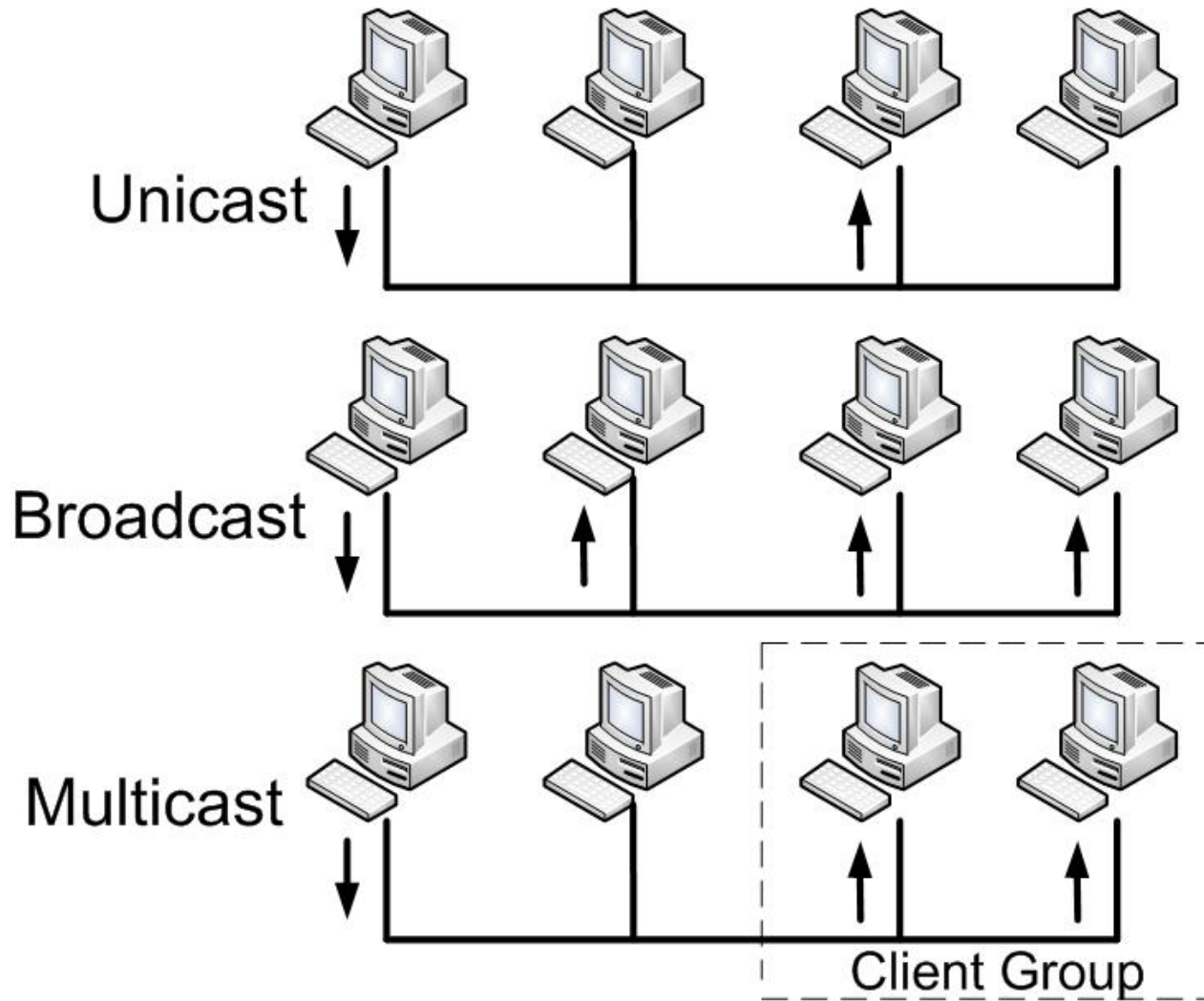
# MAC Address Components

00-14-D4-14-87-8E



- `c\>ipconfig /all` (for Windows Xp)

# LAN Communication



# Summary

- The address used in an Ethernet LAN is the means by which data is directed to the proper receiving location.
- An Ethernet frame consists of fields, including preamble, start-of-frame delimiter, destination address, source address, type/length, data and pad, and frame check sequence.
- The MAC sublayer handles physical addressing issues, and the physical address is a 48-bit number usually represented in hexadecimal format.

