

1. NODES

End nodes (End devices).

Intermediary nodes.



END NODES(DEVICES)

Computers

Network Printers

VoIP Phones

Telepresence endpoint

Security cameras

Mobile handheld devices (Smart phones, tablets, PDAs, Wireless debit/credit card reader, barcode scanner)



INTERMEDIARY NODES

Switches

Wireless Access Point

Routers

Security Devices (Firewall)

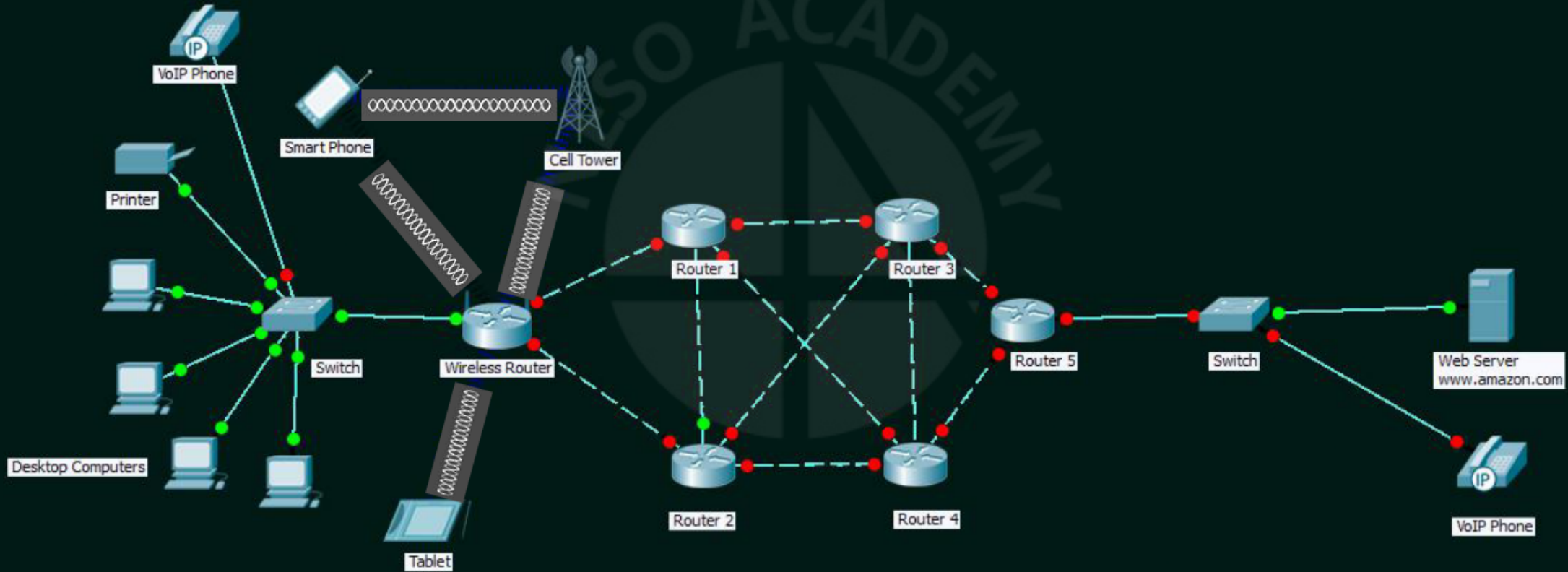
Bridges

Hubs

Repeaters

Cell Tower

COMPONENTS – NODES, MEDIA AND SERVICES



2. MEDIA

Wired Medium (Guided Medium)

Wireless Medium (Unguided Medium)



WIRED MEDIA

Ethernet straight-through cable

Ethernet crossover cable

Fiber Optic cable

Coaxial cable

USB cable



WIRED MEDIA

Ethernet straight-through cable

Ethernet crossover cable

Fiber Optic cable

Coaxial cable

USB cable



WIRED MEDIA

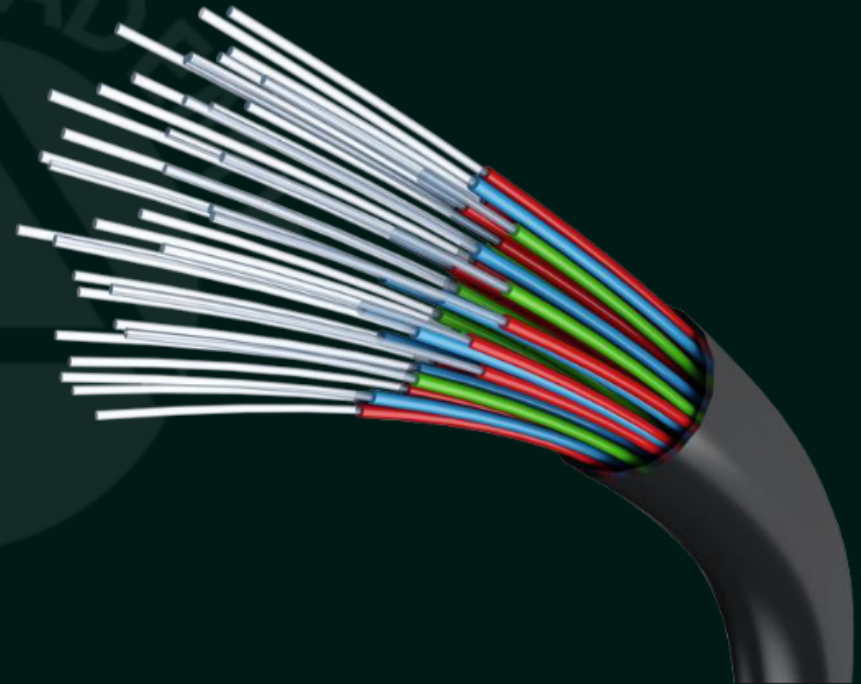
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WIRED MEDIA

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WIRELESS MEDIA

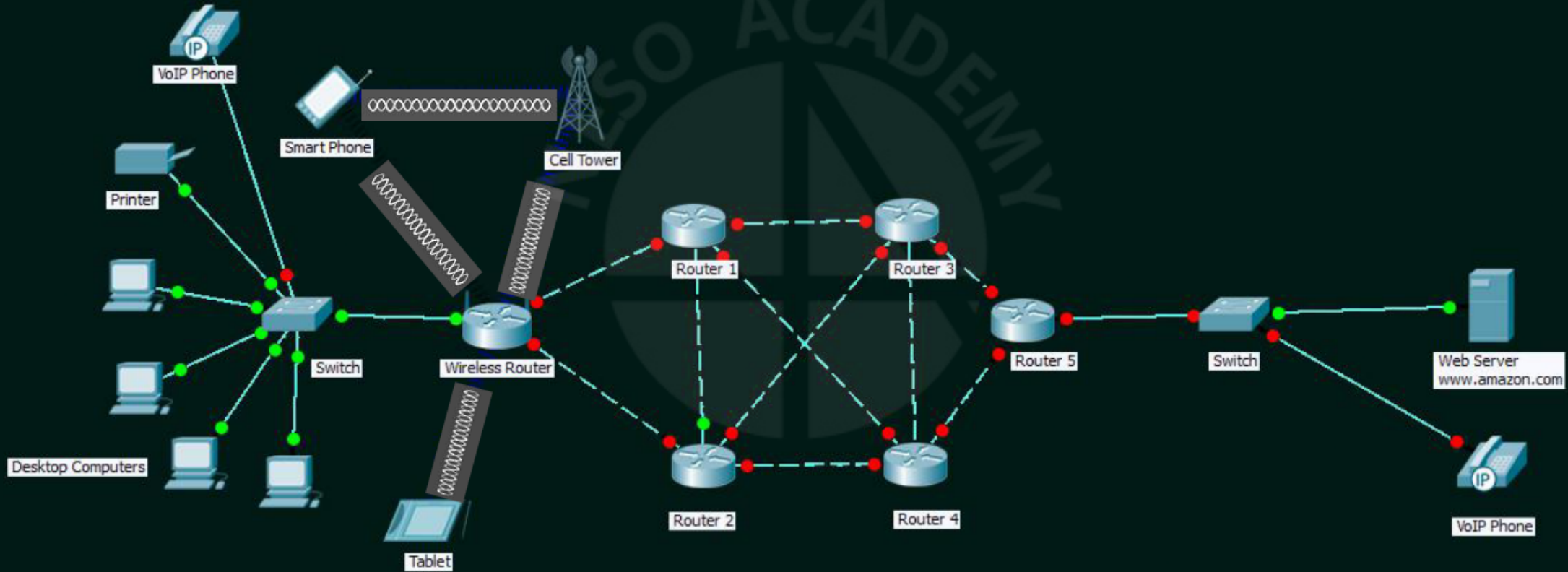
Infrared (Example: short range communication – TV remote control)

Radio (Example: Bluetooth, Wi-Fi)

Microwaves (Example: Cellular System)

Satellite (Example: Long range communication – GPS)

COMPONENTS – NODES, MEDIA AND SERVICES



3. SERVICES

e-Mail

Storage services

File sharing

Instant messaging

Online game

Voice over IP

Video telephony

World Wide Web

COMPONENTS – NODES, MEDIA AND SERVICES

