



CU3

Single Pipe to the Desktop

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Single Pipe to the Desktop?

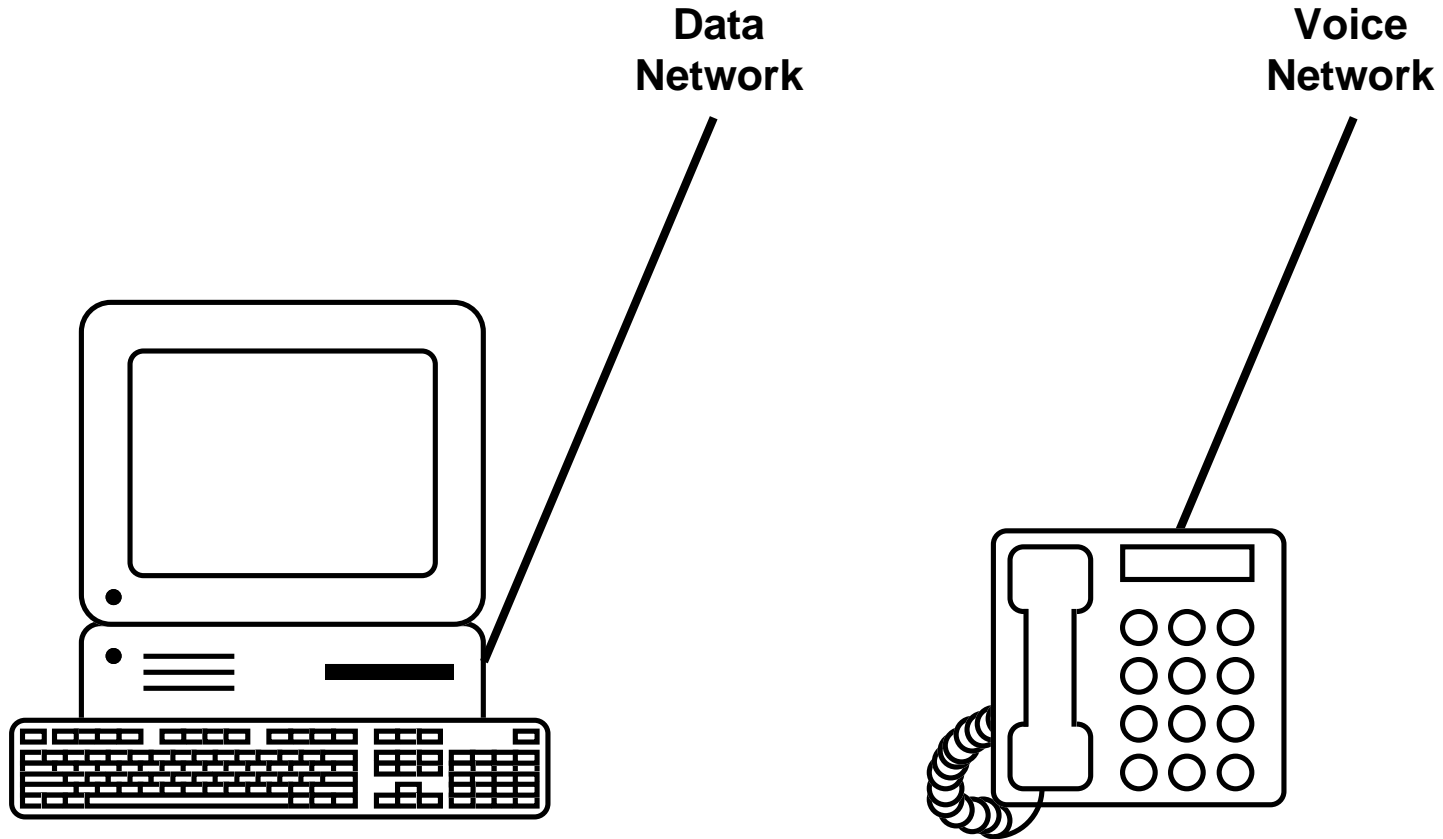


■ Not if,

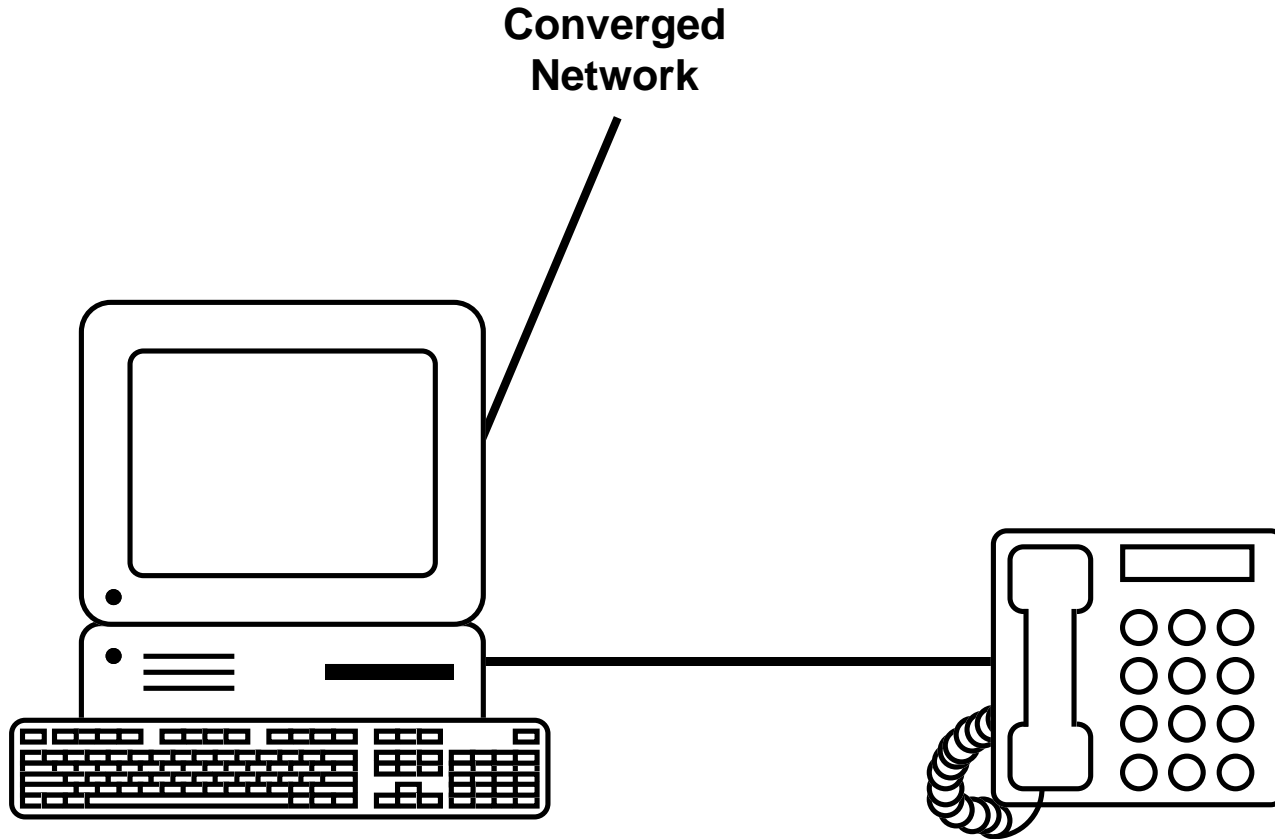
■ But:

- What?
- Why?
- When?
- How?

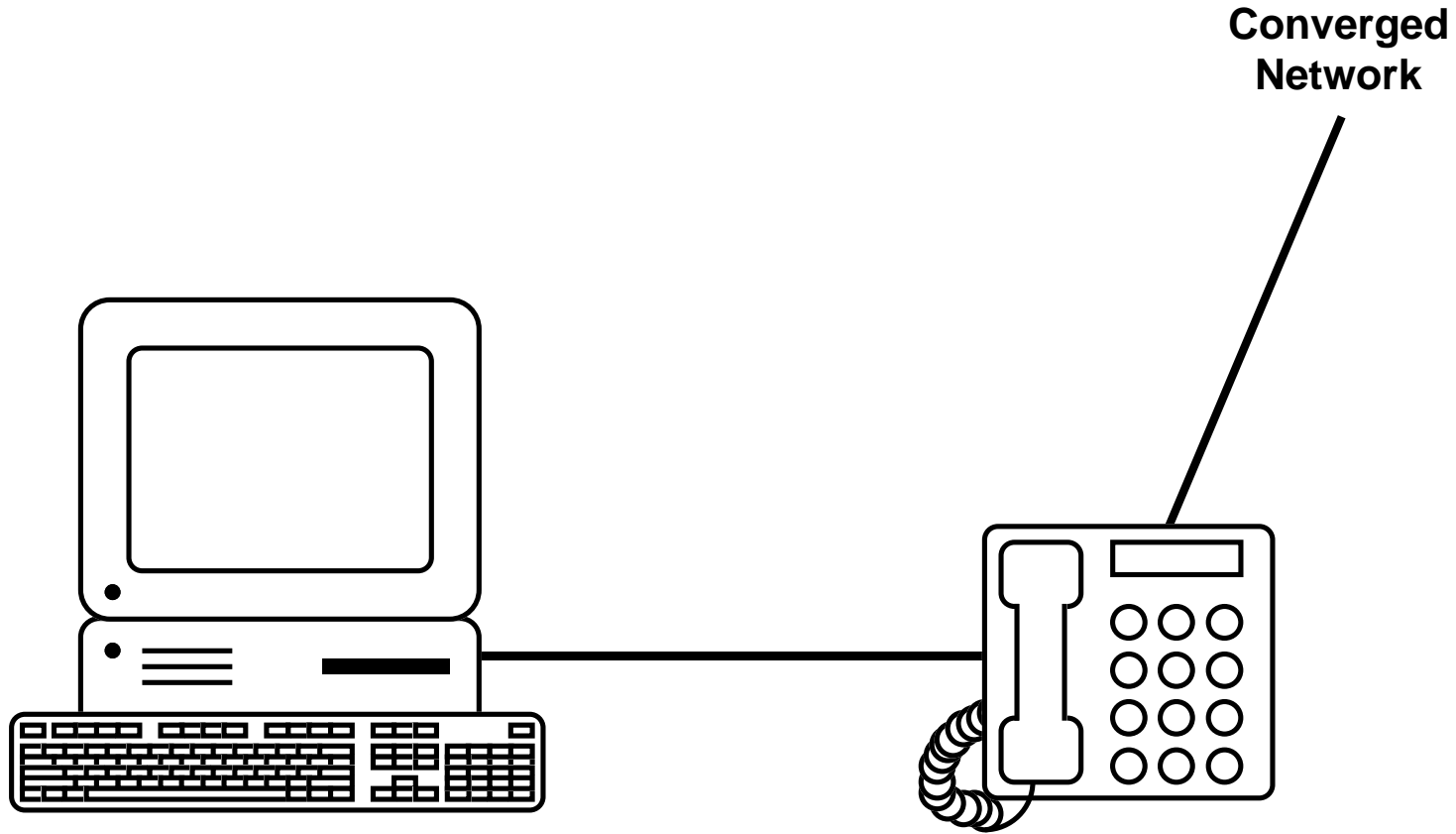
Traditional Approach: Separate Voice and Data “Pipes”



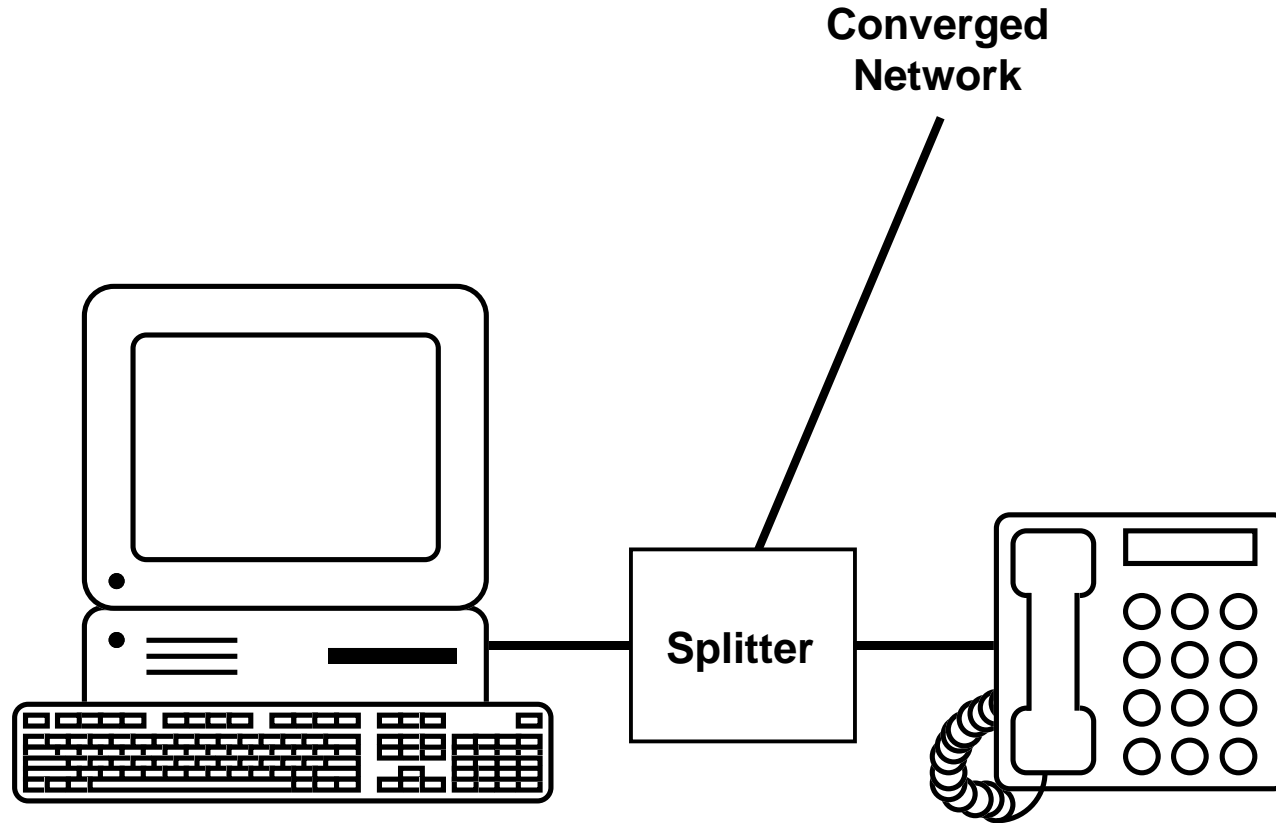
Approach #1: Phone as PC Peripheral



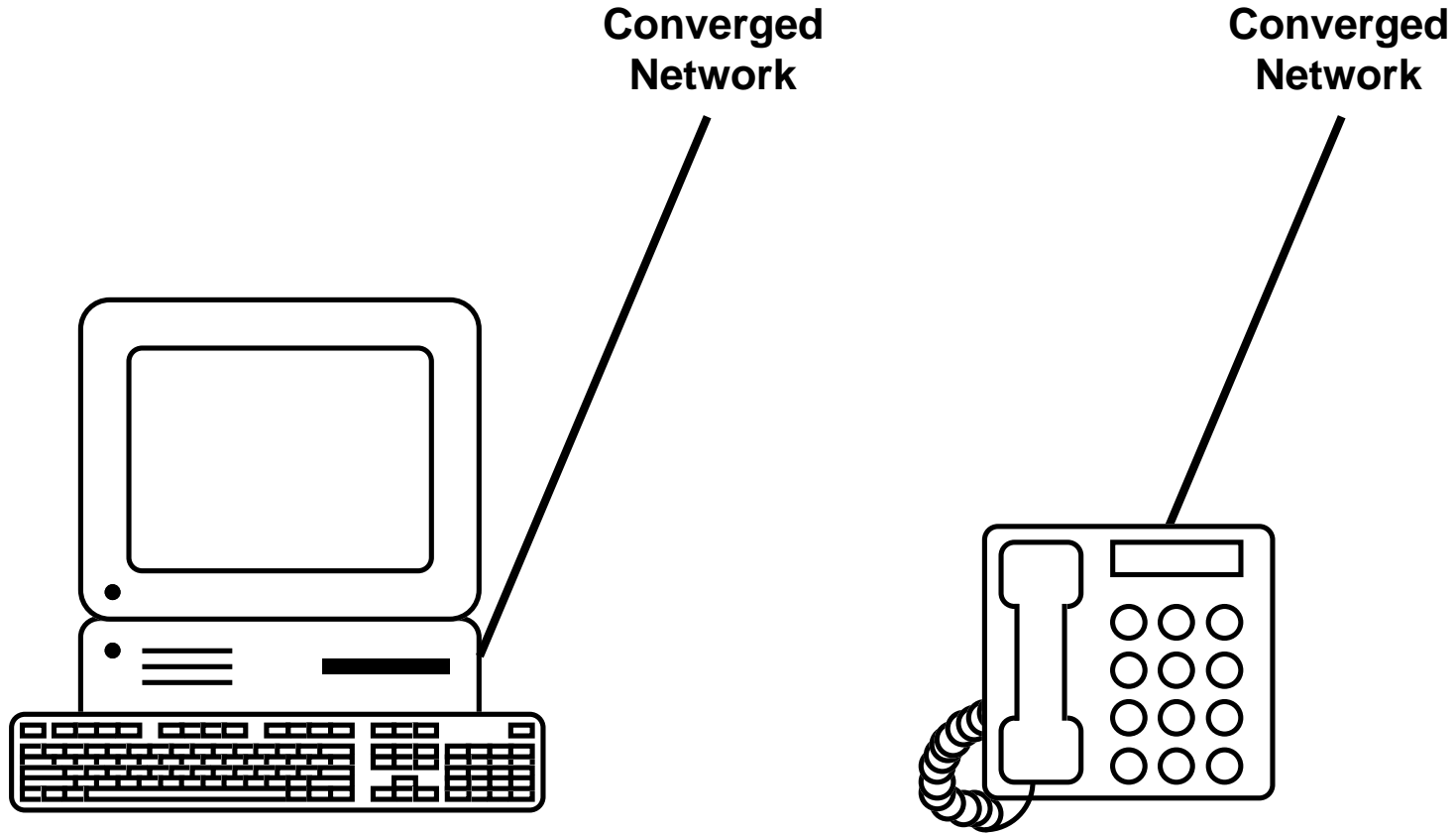
Approach #2: Phone as Hub



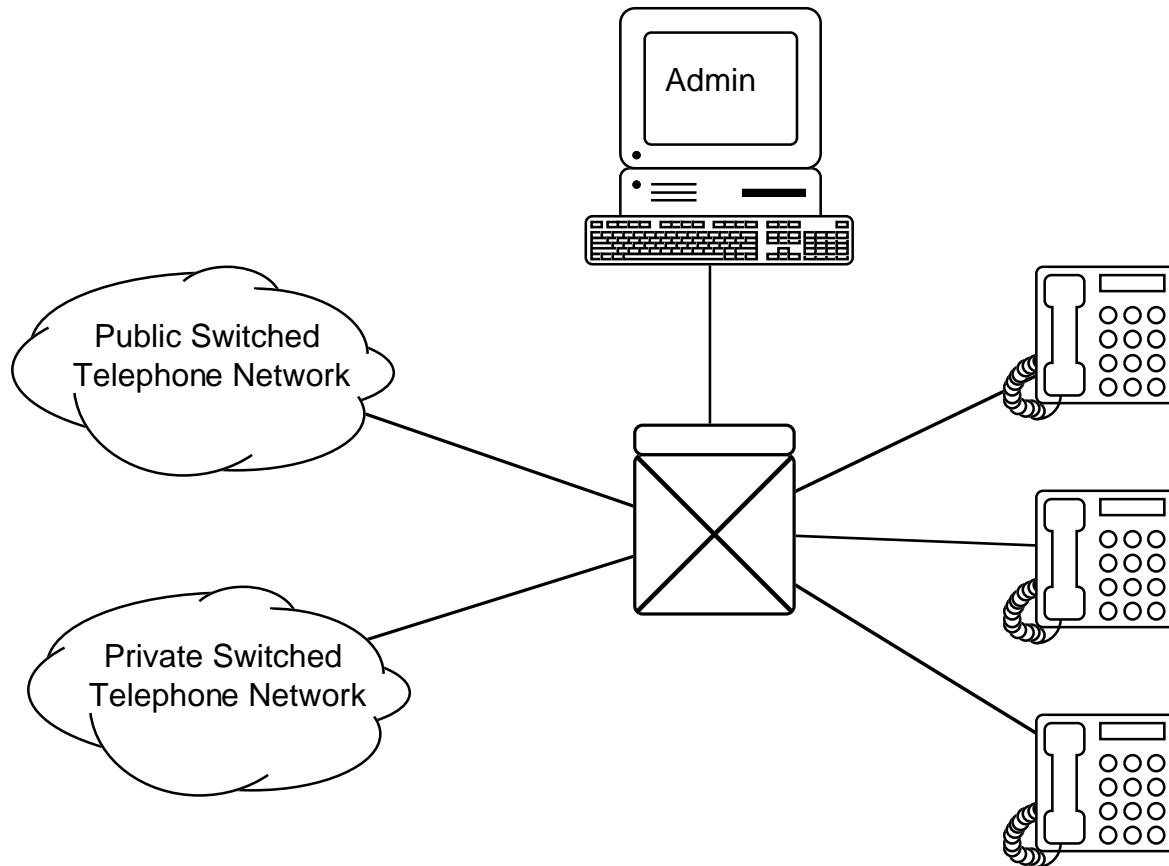
Approach #3: PC and Phone via a Splitter



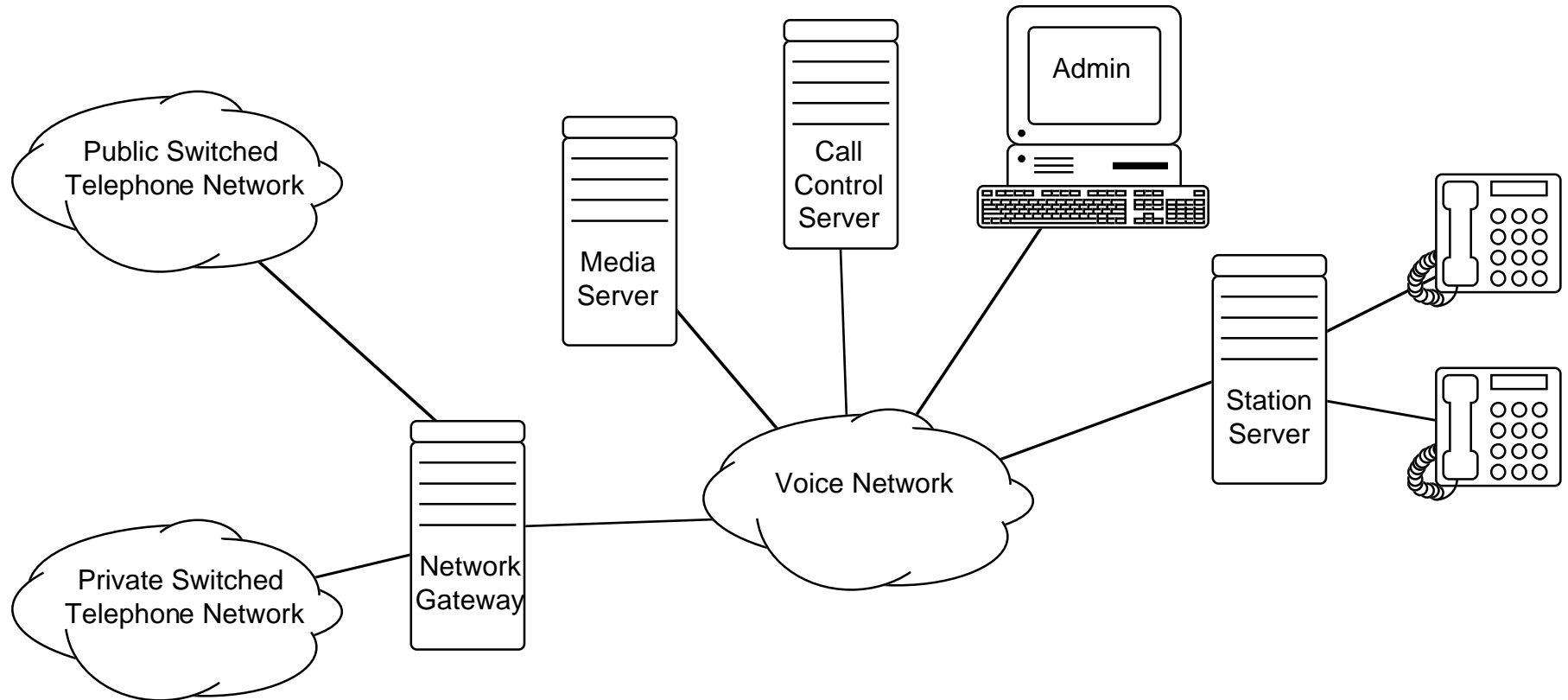
Approach #4: PC and Phone as Network Peers



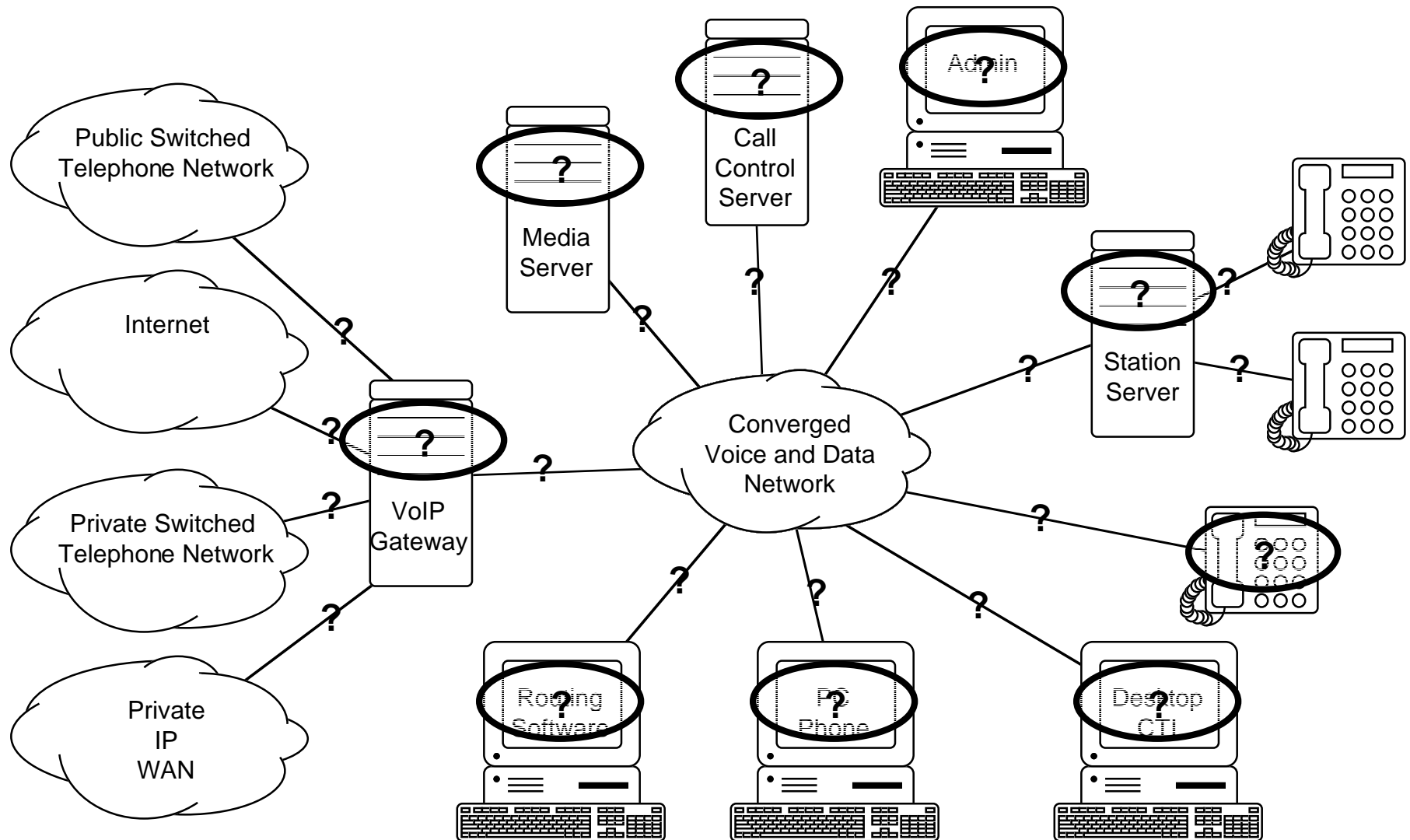
Telephone System Implementation



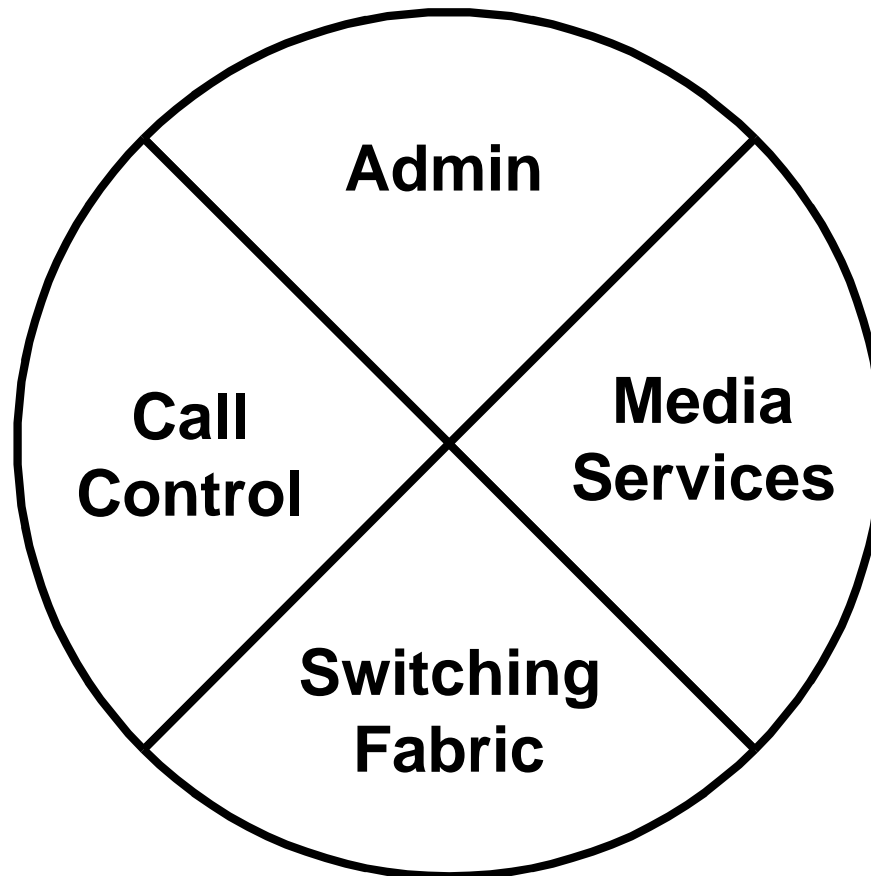
Distributed PBX Architecture



Telephone System Implementation



Telephone System Technologies



Switching Fabric



- Establishes media stream channels between endpoints and conveys signaling information
- Traditional Switching Fabric
 - TDM bus backplanes connecting line cards
 - Analog (POTS) and digital (T-1, ISDN, proprietary) telephony circuits
- IP Telephony Switching Fabric
 - Packetized voice over conventional IP networking infrastructure
 - Typically based on off-the-shelf computer technology
- Other Alternatives

Motivation for Single Network



■ Engineering

- Because we can?
- More elegant?

■ Economics

- Cheaper to Install?
- Cheaper to Maintain?

■ Applications

- New capabilities?
- New flexibility?