

## Network Overview

- Network Components
- LANs
- WANs
- Layered Models and OSI
- Overview of the Internet

Amjad Umar

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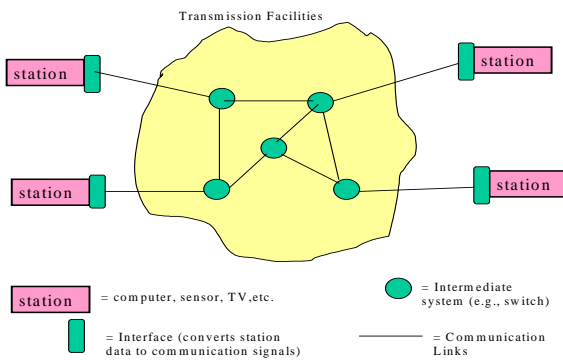
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## Network components



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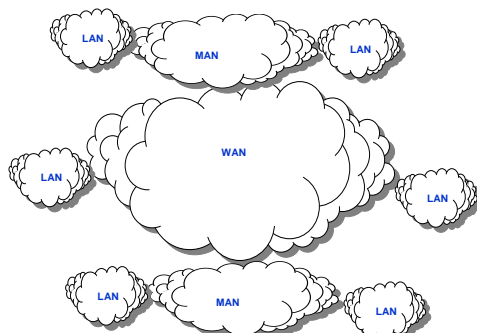
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## Network Categories



- \* wide area network (WAN): common carrier, long distance, typically 56 kbps
- \* local area networks (LAN): no common carrier, short distance, upto 100 mbps
- \* metropolitan area networks (MAN): LAN of a city

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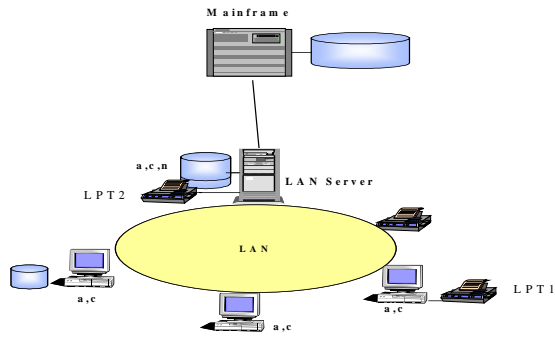
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## LAN example



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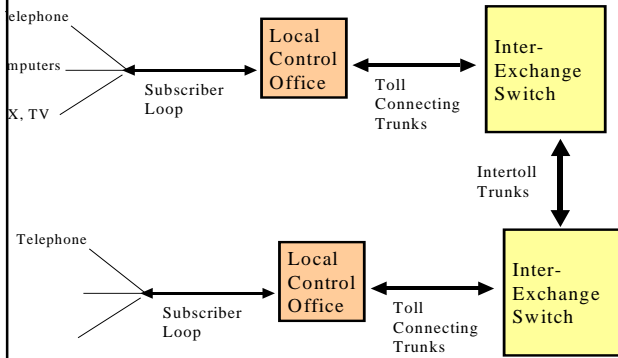
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## Wide Areat Networks



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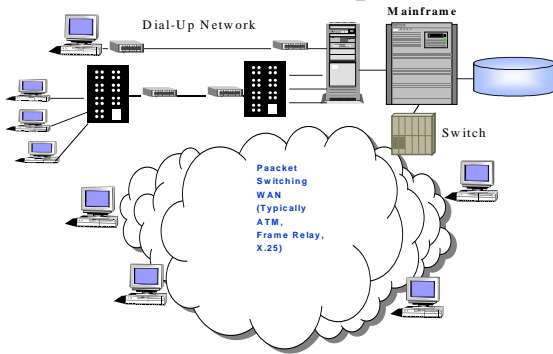
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## WAN example



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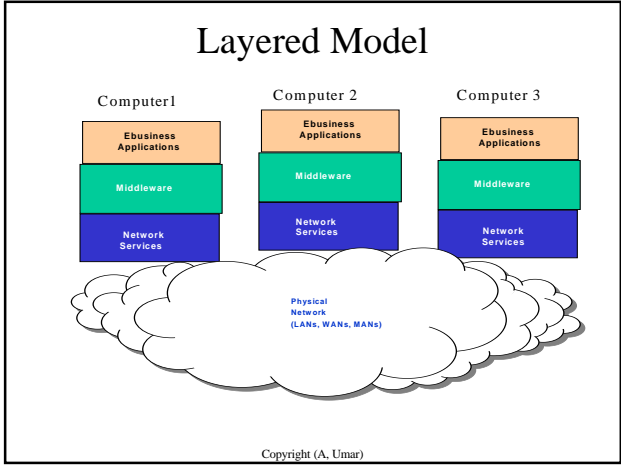
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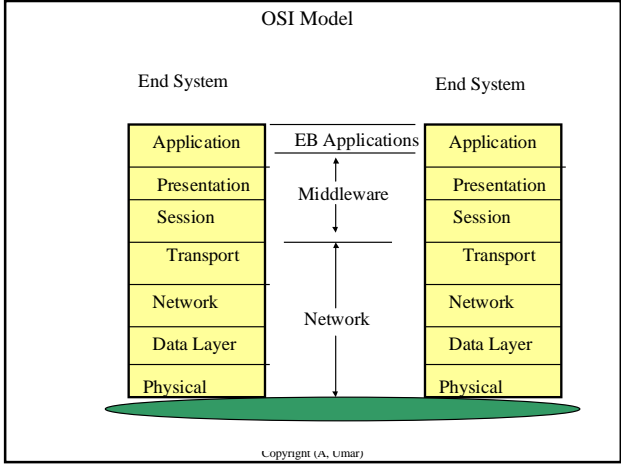
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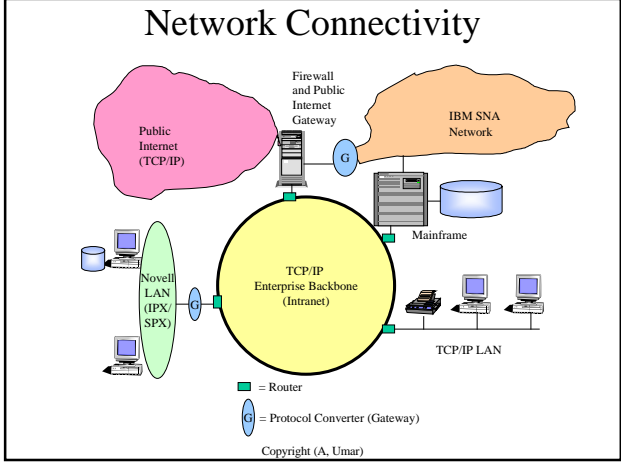
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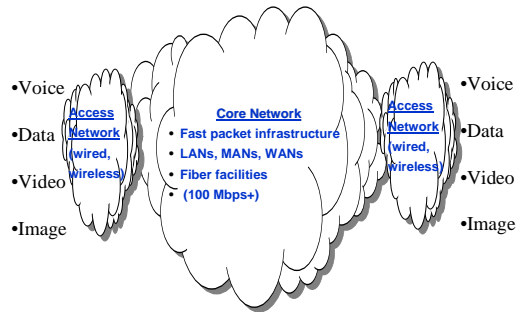
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## Converged networks



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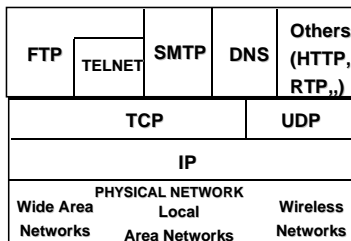
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## Internet

- Technically, Internet is a collection of IP networks
- The IP stack is at the core of Internet



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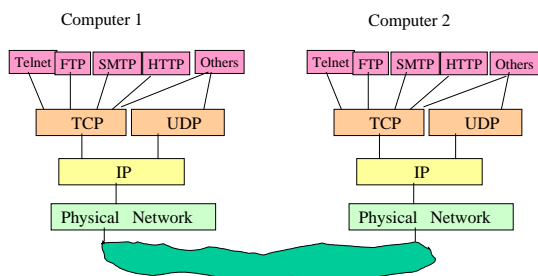
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## Internet Stack



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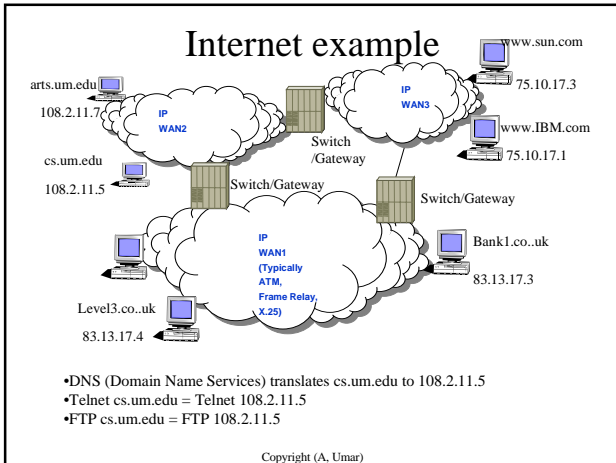
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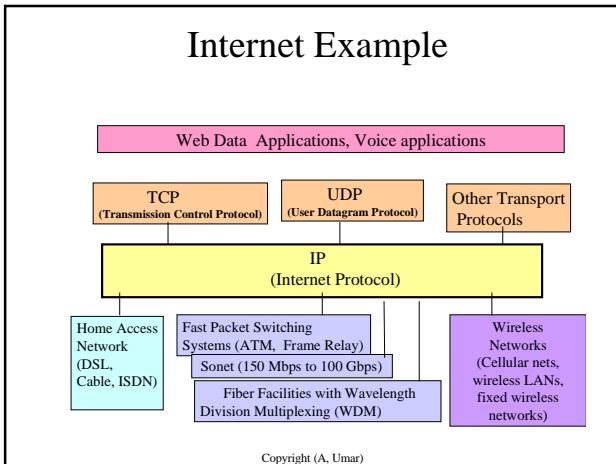
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