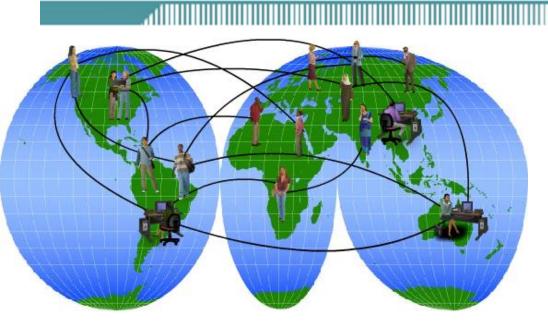
Network Centric World

Definition

- Multiple computers connected together using a communcations system
- The purpose of a network is for computer to communicate and share files

Networks Supporting the Way We Live



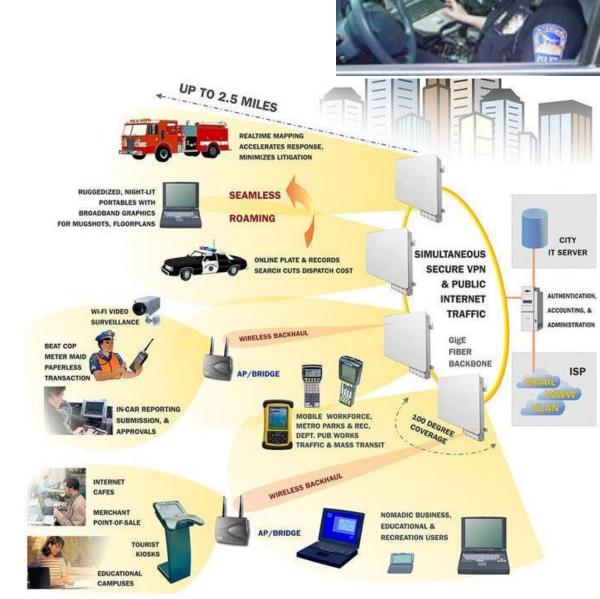


- The original idea about networks and the Internet was about sharing computer resources – computer-to-computer communications.
- That quickly changed to people-to-people communications.
- Early networks were limited to character-based information.
- Communications between computers was not common nor easy to do.

Networks in the way we work

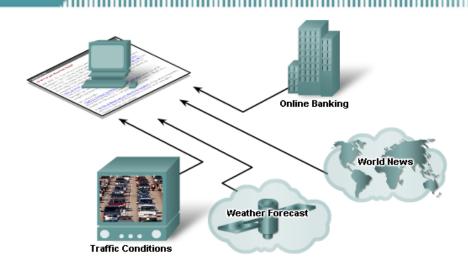


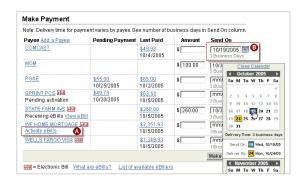




Networks are integral in our daily lives

Cabrillo College





The way we live is supported by services delivered by the data network.

http://www.youtube.com/watch? v=fQKNvPn3V-8&mode=related&search=





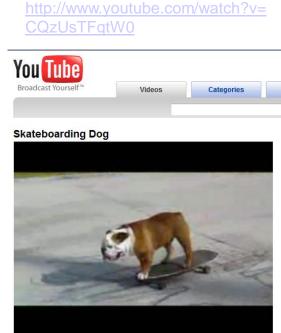


Networks Supporting the Way We Live





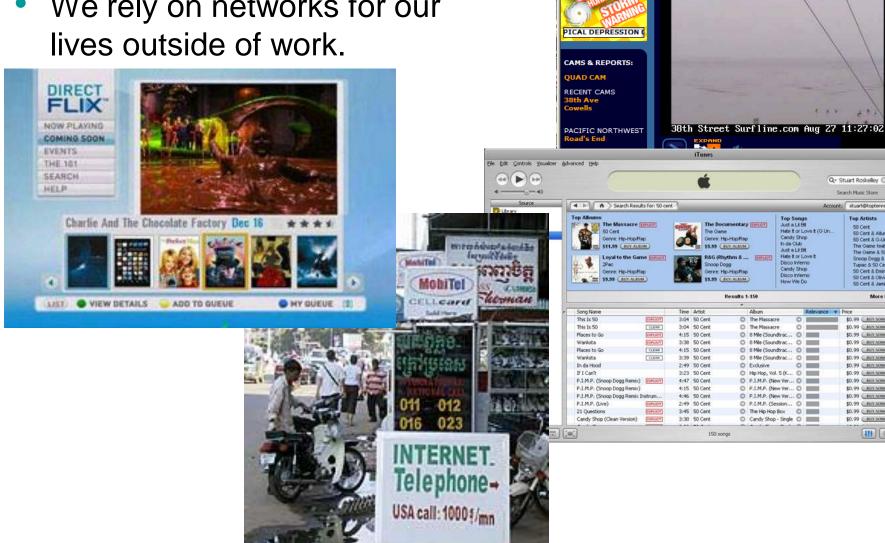




- Today's networks carry between many different types of devices:
 - Voice
 - video streams
 - Text
 - graphics

Networks in the way we play

We rely on networks for our lives outside of work.



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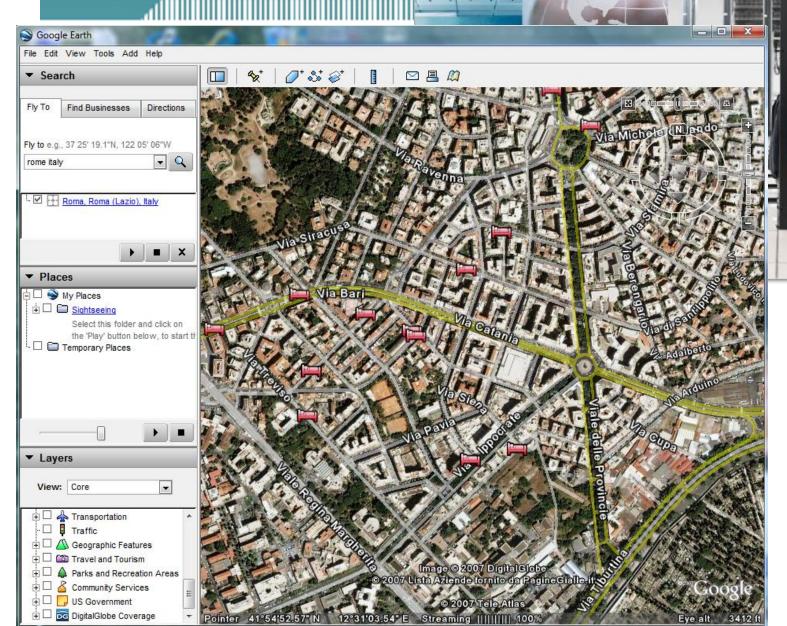
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Lab Activity: Google Earth





Networks – Behind the scenes

 More than just connecting cables... (that's the easy part)

 Today's networks are complex and sophisticated combination of protocols, software, hardware, algorithms, configurations, policies, and more

- Security
- Privacy
- 24 x 7 availability and access
- Quality of Service
- Video on Demand
- Voice over IP (over the Internet)
- Redundancy and backup
- Mission critical applications
- Productivity and user expectations
- Wireless
 Rick Graziani graziani@cabrillo.edu



Networks Supporting the Way We Play

- **Email**
- Personal Web Sites
- Sharing photos and videos (YouTube)
- Travel: Expedia, Priceline, Travelocity, etc.
- IM
- Gaming













The onboard data network provides a range of services to airline personal seatback video systems.



Instant Messaging

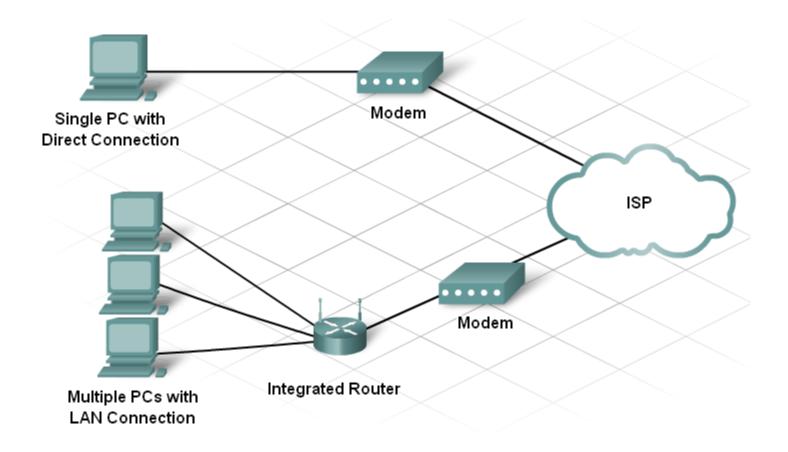
The way we play is supported by services delivered by the data network.



Type of Network

- Networks come in all sizes.
- They can range from simple networks consisting of two computers, to networks connecting millions of devices.
- Networks installed in small offices, or homes and home offices, are referred to as SOHO networks. SOHO networks enable sharing of resources, such as printers, documents, pictures and music between a few local computers.
- In business, large networks can be used to advertise and sell products, order supplies, and communicate with customers.

SOHO



Medium Network

Large Network

