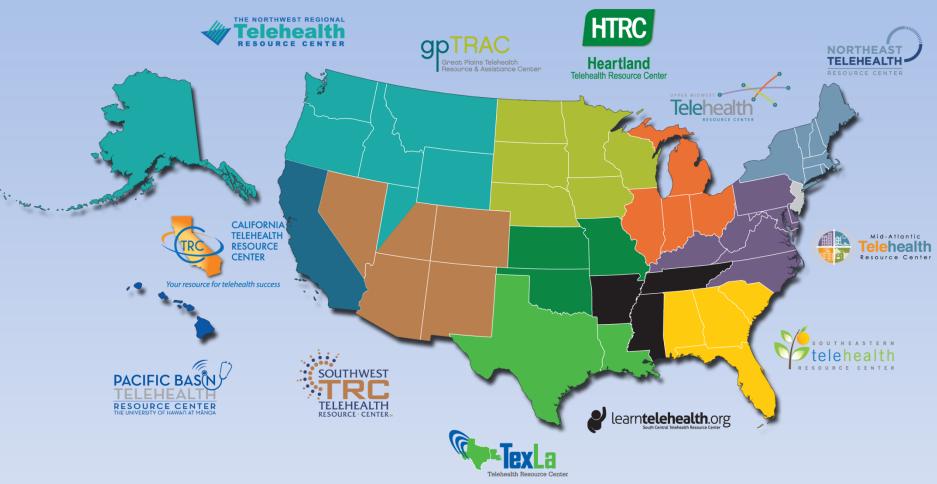


The National Telehealth Webinar Series

Presented by
The National Network of
Telehealth Resource Centers

TelehealthResourceCenters.org









NRTRC	gpTRAC	NETRC
CTRC	HTRC	UMTRC
SWTRC	SCTRC	MATRC
PBTRC	TexLa	SETRC

12 Regional Resource Centers

Network Connectivity 101

A primer for the networking novice



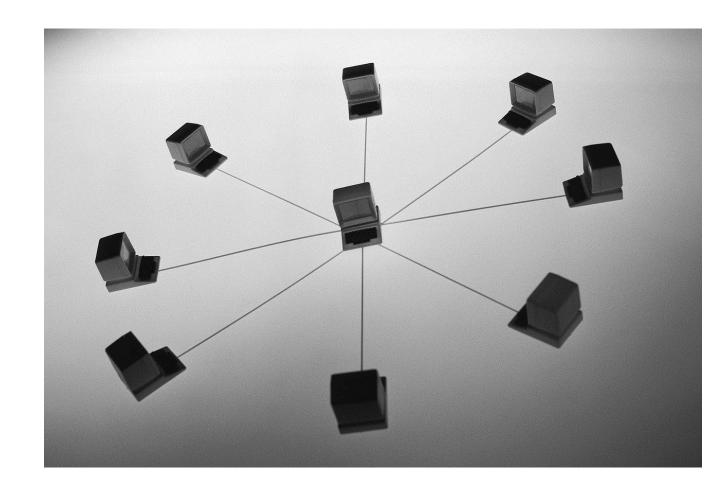


National Telehealth Technology Assessment Resource Center



What is a network?

A network connects things together



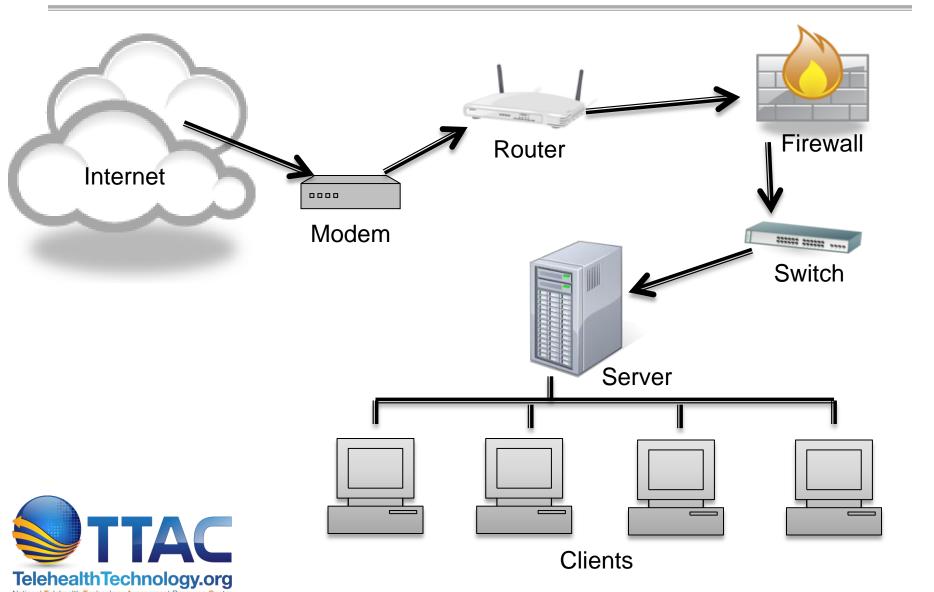


Identifying Characteristics of a Computer Network

- Networks enable sharing of resources (data files, printers, Internet access)
- Networks need specialized hardware and software to function



Computer Network Diagram



Types of networks by size

- Global Area Network GAN
- Wide Area network WAN
- Local Area Network LAN
- Personal Area Network PAN
- Body Area Network BAN

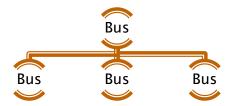


Network Architecture

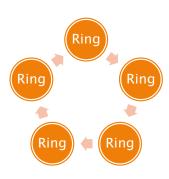
- Network architecture is made up of
- a topology
- a cable type (or wireless)



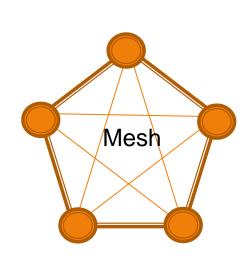
Network Topologies

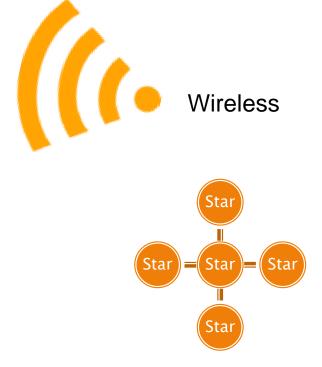






- Bus Topology
- Star topology
- Mesh Topology
- Ring Topology
- Wireless Topology
- Hybrid Topology







Hard-Wired Networks

Connectivity using wires or cables

- Household electrical wiring
- Telephone wiring
 - Cable television
 - **Ethernet cables**

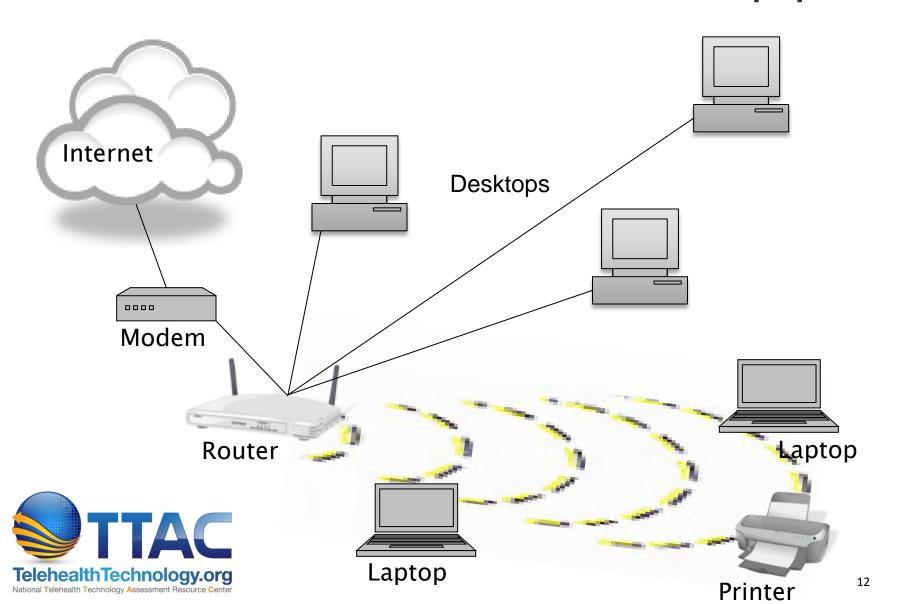


Wireless networks

Connectivity provided using radio waves



Wireless signals transmitted from wired equipment



IP (Internet Protocol) Addressing

From:

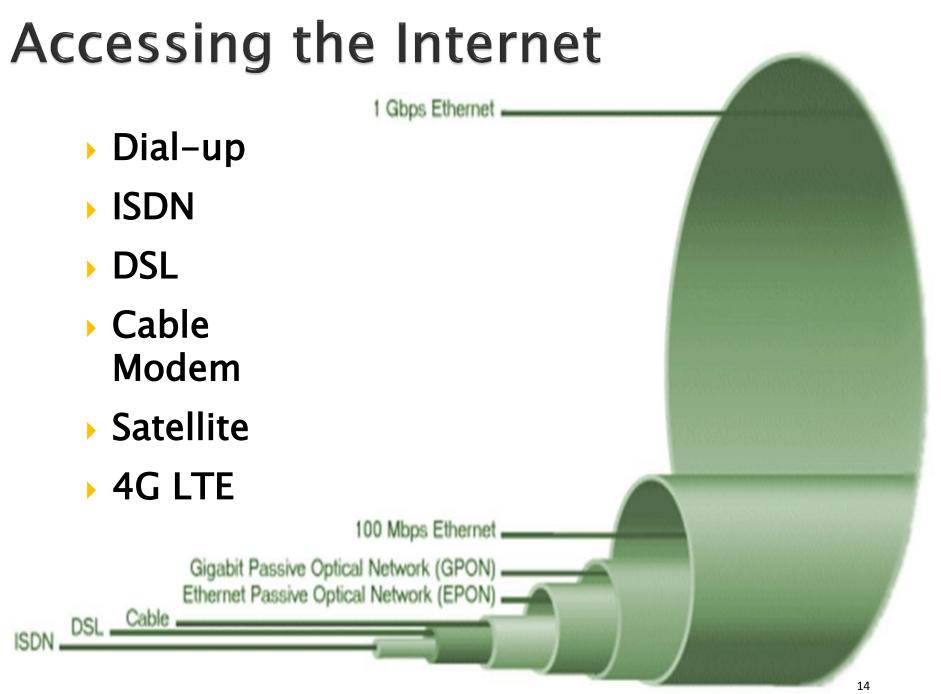
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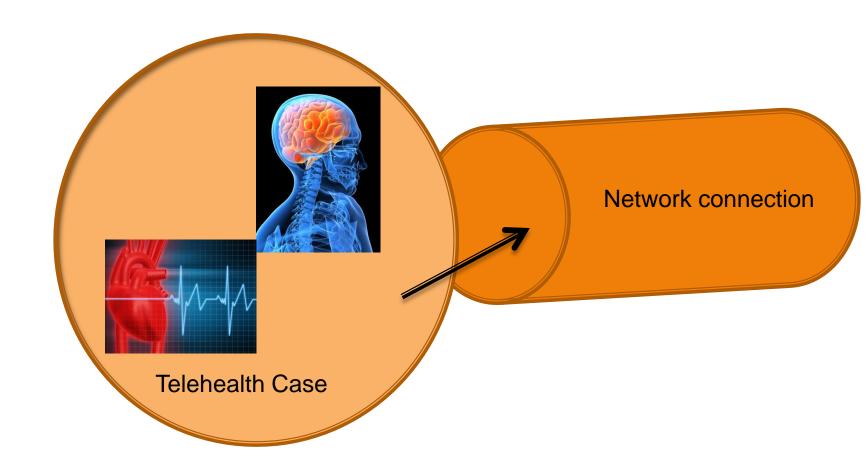


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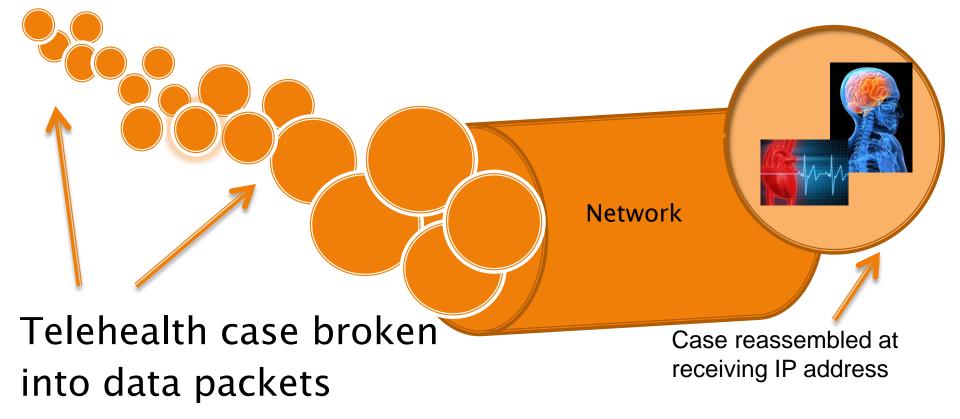
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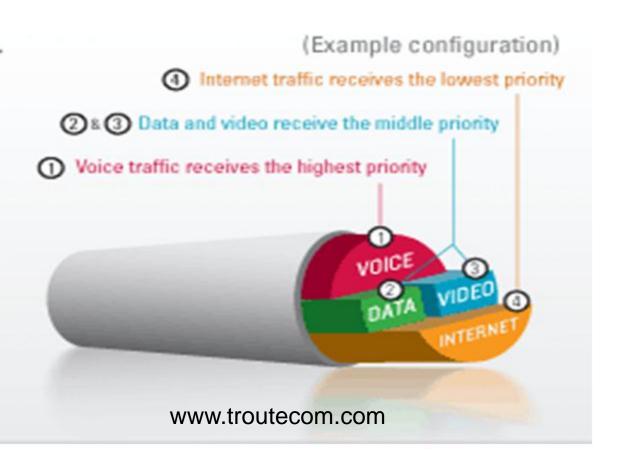




Packet switching



Quality of Service = Traffic Control



Network Security

Network security consists of functions and practices designed to protect your network and its data

- User Login and Password Authentication
- Firewalls
- Anti-virus Software
- Secured Data via Encryption
- Secured Network via Encryption

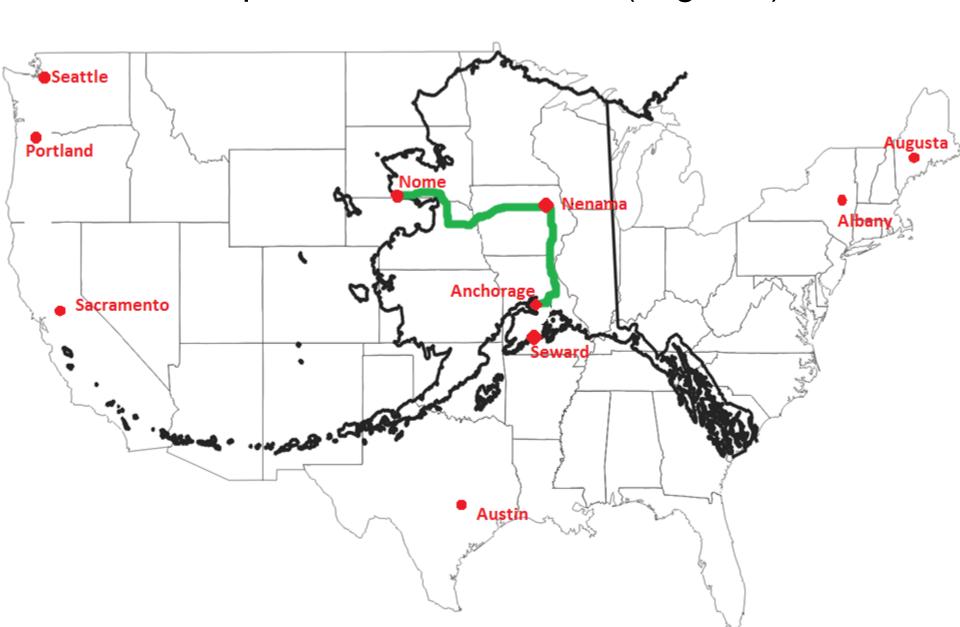


Health Care Networks

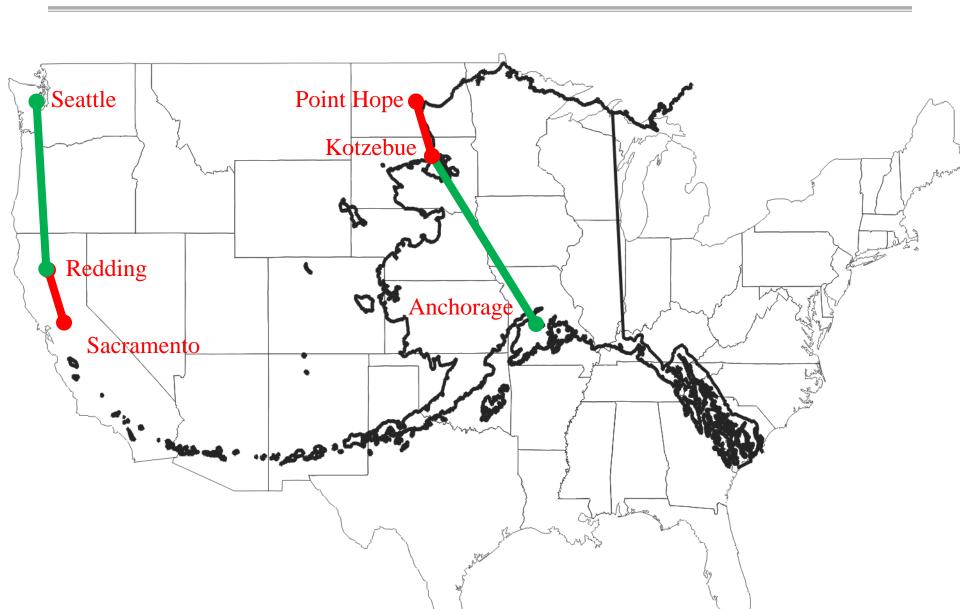
An Alaskan Story

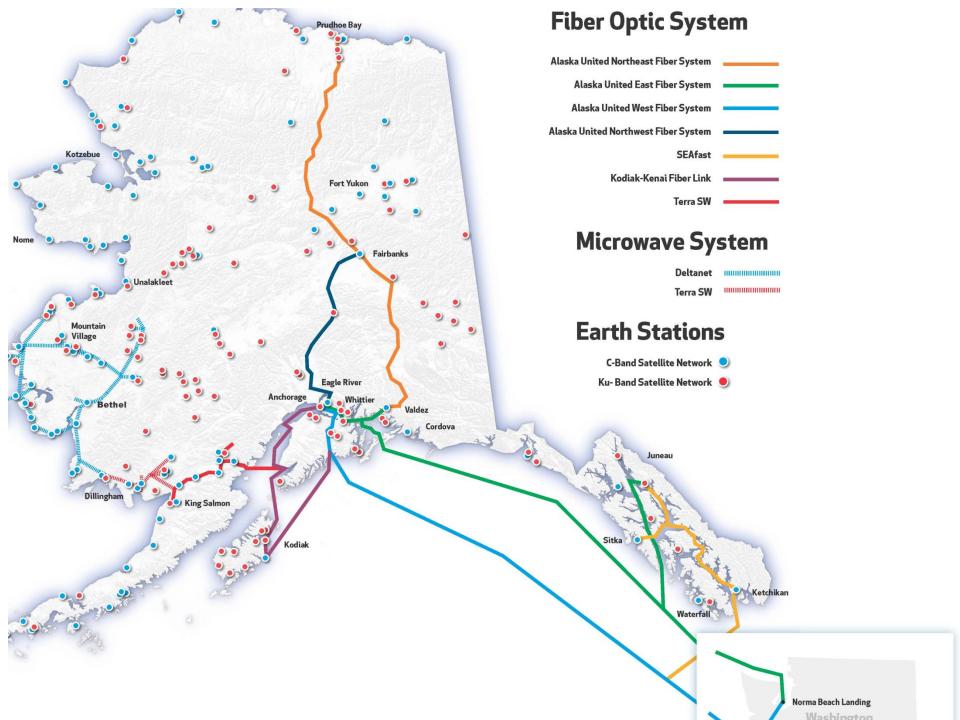


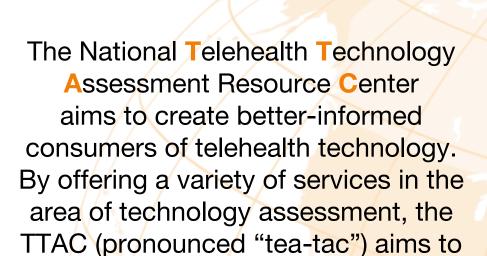
1925 Diphtheria Serum Route (in green)



Rural residents travel an average of 147 miles one way for access to next level of care in Alaska







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questions about selecting

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