

FACULTY OF ENGINEERING & TECHNOLOGY

BCA-302Computer Networks

Lecture-26

Mr. Dilip Kumar J Saini

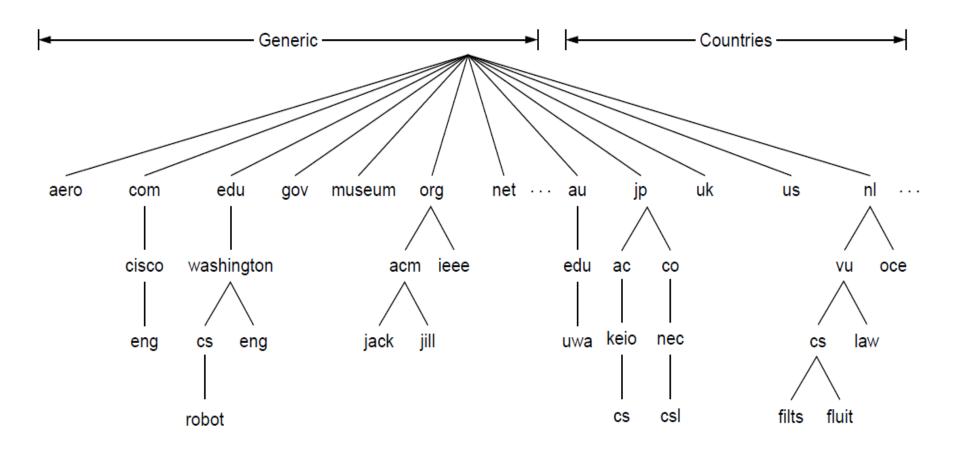
Assistant Professor Computer Science & Engineering

OUTLINE

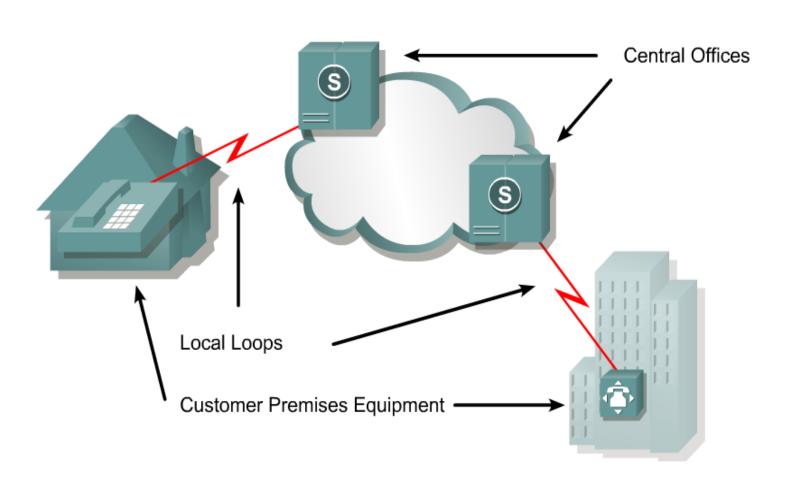
- >THE DNS NAME SPACE
- >WAN TECHNOLOGY/TERMINOLOGY
- >CONNECTING A MODEM TO A ROUTER

THE DNS NAME SPACE

A portion of the Internet domain name space



WAN technology/terminology

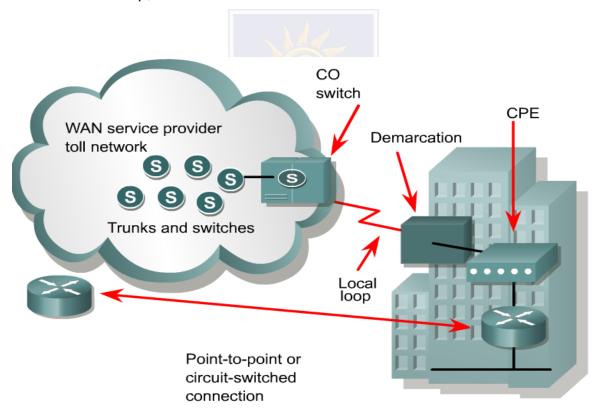


Devices on the subscriber premises are called **customer premises equipment (CPE).**

The subscriber owns the CPE or leases the CPE from the service provider.

A copper or fiber cable connects the CPE to the service provider's nearest exchange or central office (CO).

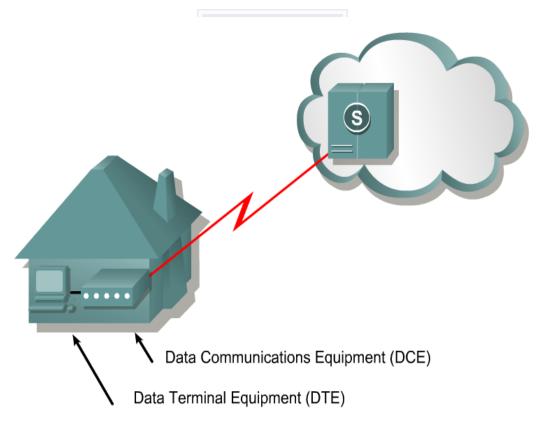
This cabling is often called the local loop, or "last-mile".



Devices that put data on the local loop are called data circuit-terminating equipment, or data communications equipment (DCE).

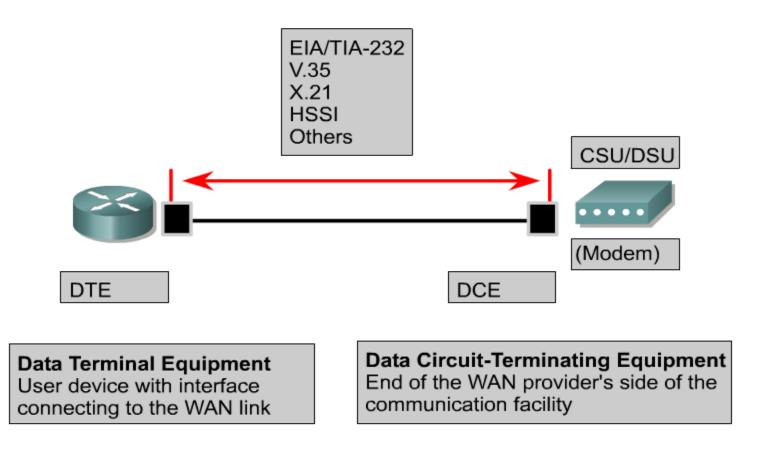
The customer devices that pass the data to the DCE are called data terminal equipment (DTE).

The DCE primarily provides an interface for the DTE into the communication link on the WAN cloud.



The DTE/DCE interface uses various physical layer protocols, such as High-Speed Serial Interface (HSSI) and V.35.

These protocols establish the codes and electrical parameters the devices use to communicate with each other

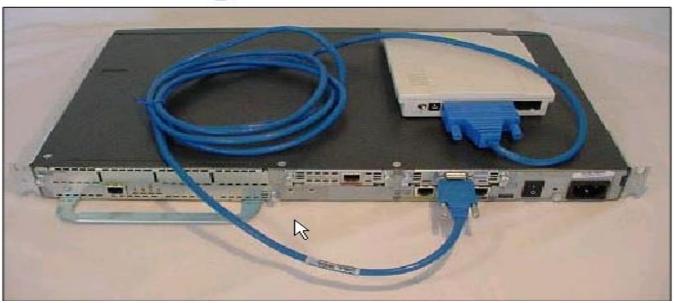


CONNECTING A MODEM TO A ROUTER

Connecting to a serial interface :physical-layer async interface command

The Picture shows a connection between a Cisco 2620 series router and an external modem using an EIA/TIA-232 Smart Serial cable

Connecting a Modem to a Router



CONNECTING A MODEM TO A ROUTER

AUX (Auxiliary): To connect a modem to a Cisco router's AUX port, you typically use a rollover cable and a RJ-45-to-DB-25 male DCE modem adapter

Connecting a Modem to a Router



Line Type	Signal Standard	Bit Rate Capacity		
56	DS0	56 Kbps		
64	DS0	64 Kbps		
T1	DS1	1.544 Mbps		
E1	ZM	2.048 Mbps		
E3	M3	34.064 Mbps		
J1	Y1	2.048 Mbps		
Т3	DS3	44.736 Mbps		
OC-1	SONET	51.84 Mbps		
OC-3	SONET	155.54 Mbps		
OC-9	SONET	466.56 Mbps		
OC-12	SONET	622.08 Mbps		
OC-18	SONET	933.12 Mbps		
OC-24	SONET	1244.16 Mbps		
OC-36	SONET	1866.24 Mbps		
OC-48	SONET	2488.32 Mbps		

Multiple Choice Question

MUTIPLE CHOICE QUESTIONS:

Sr no	Question	Option A	Option B	OptionC	OptionD
1	Socket-style API for windows is called	wsock	winsock	wins	sockwi
	Which one of the following is a version of UDP with congestion control?	datagram congestion control protocol	stream control transmission protocol	structured stream transport	user congestion control protocol
3	A is a TCP name for a transport service access point.	port	pipe	node	protocol
4	Transport layer protocols deals with	application to application communication	process to process communication	node to node communication	man to man communica tion
5	Which of the following is a transport layer protocol?	transmission	message	profocol	dynamic host configurati on protocol

REFERENCES

http://www.engppt.com/2009/12/networking-fourozan-ppt-slides.html

