

# FACULTY OF ENGINEERING & TECHNOLOGY

# BCA-302Computer Networks

## Lecture-15

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#### >DATA LINK LAYER DESIGN ISSUES

#### >NETWORK LAYER SERVICES

>PPP – POINT TO POINT PROTOCOL



### DATA LINK LAYER DESIGN ISSUES

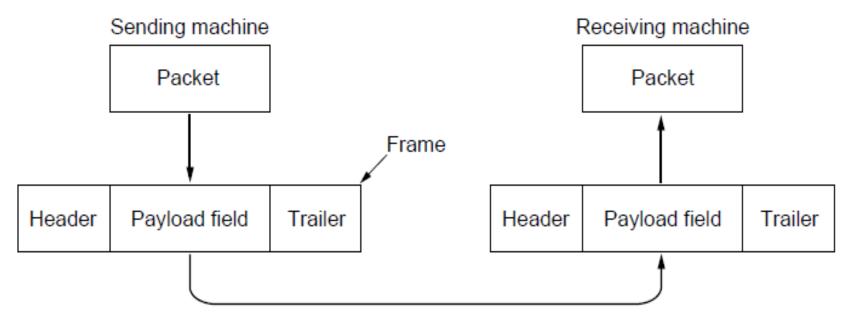
Network layer services

Framing

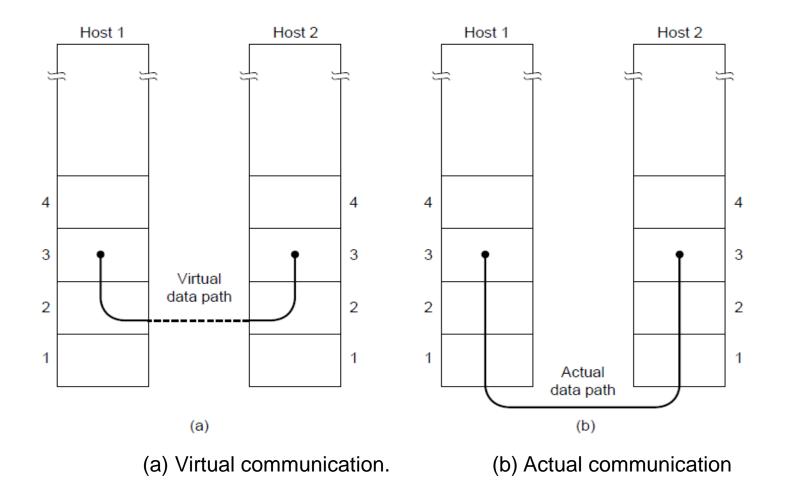
Error control

Flow control

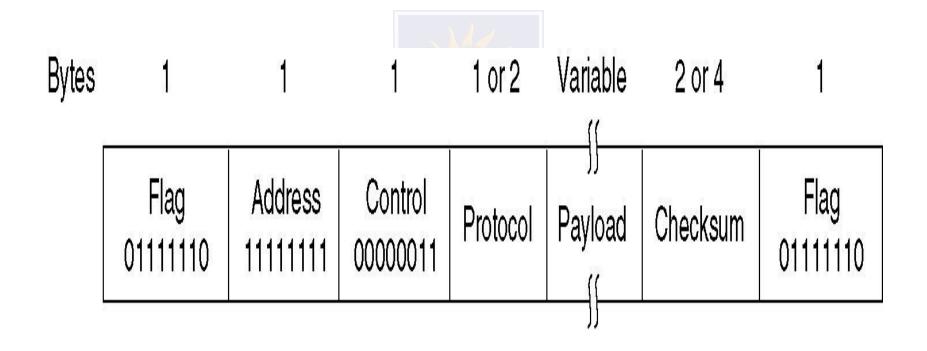




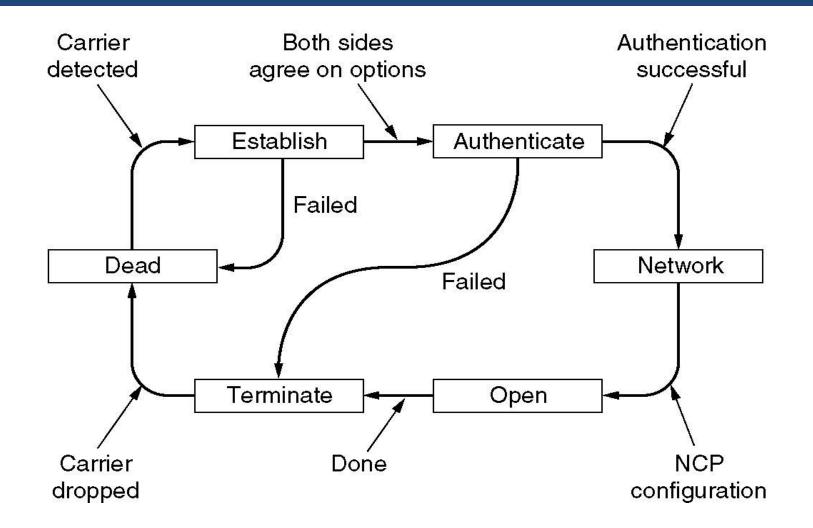
## NETWORK LAYER SERVICES



#### The PPP full frame format for unnumbered mode operation.



## **PPP – POINT TO POINT PROTOCOL**



### The LCP frame types.

Name	Direction	Description		
Configure-request	$I \rightarrow R$	List of proposed options and values		
Configure-ack	l ← R	All options are accepted		
Configure-nak	I ← R	Some options are not accepted		
Configure-reject	I ← R	Some options are not negotiable		
Terminate-request	$I \rightarrow R$	Request to shut the line down		
Terminate-ack	I ← R	OK, line shut down		
Code-reject	I ← R	Unknown request received		
Protocol-reject	I ← R	Unknown protocol requested		
Echo-request	$I \rightarrow R$	Please send this frame back		
Echo-reply	I ← R	Here is the frame back		
Discard-request	$I \rightarrow R$	Just discard this frame (for testing)		

### **MUTIPLE CHOICE QUESTIONS:**

Sr no	Question	Option A	Option B	OptionC	OptionD
1	Transmission data rate is decided by	network layer	physical layer	data link layer	transport layer
2	The physical layer is concerned with	bit-by-bit delivery	p) process to process delivery	11	port to port delivery
	Bits can be sent over guided and unguided media as analog signal by	digital modulation	amplitude modulation	frequency modulation	phase modulation
4	The physical layer provides		for IR over	electrical specification of transmission line signal level	all of the mentioned
5	The physical layer is responsible for	line coding	channel coding	modulation	all of the mentioned

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

