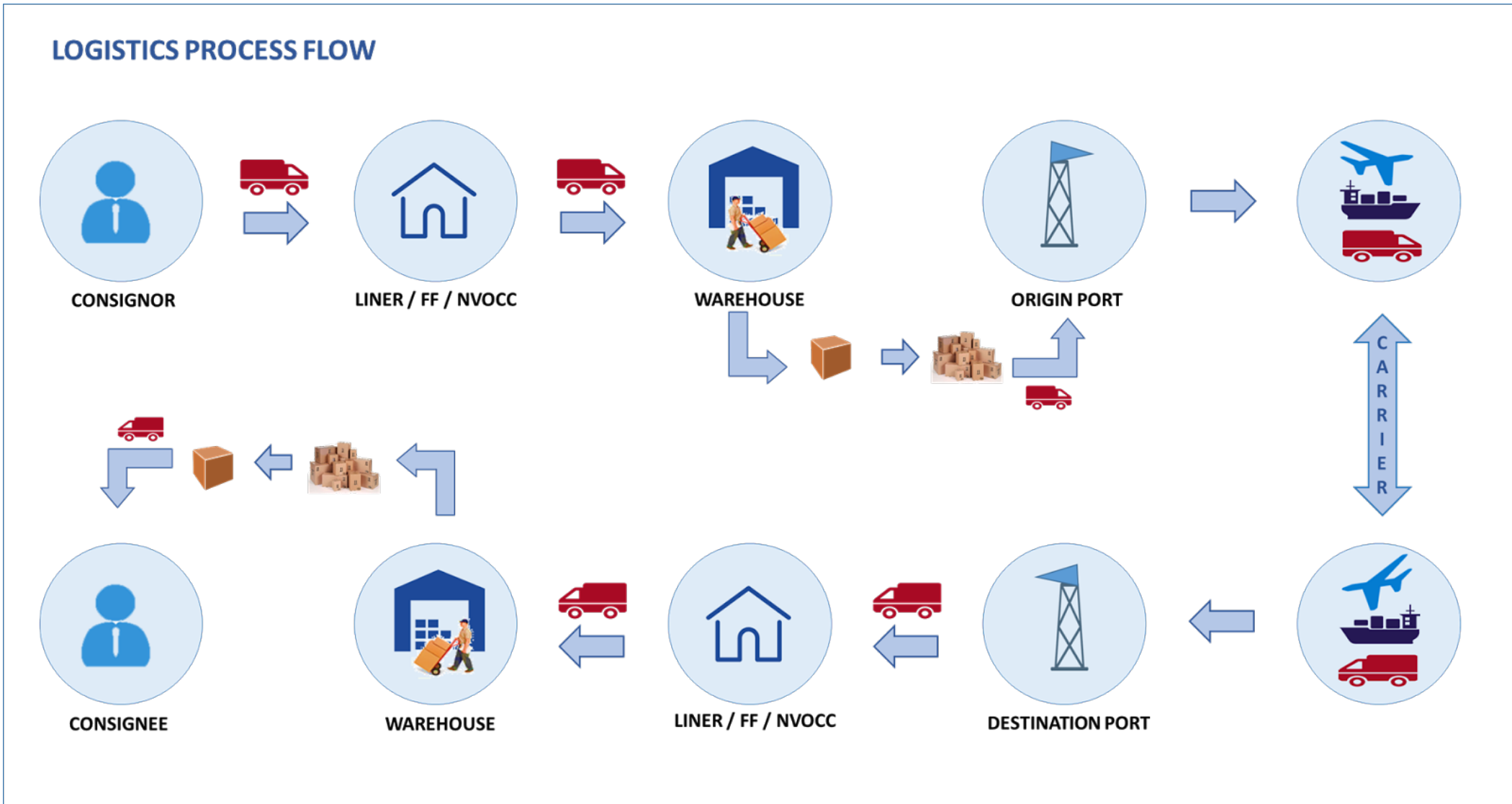


Homework (Group of six or less)

1. (5 pts) Package delivery carrier delivers packages from sender to recipient along one or more local/transit hubs, possibly with different kinds of transportations (e.g., trucks, ships, planes, vans, trains, motorbikes, etc.) Map functions of layers TCP/IP reference models to those in package delivery service ?



Shipping logistics	Analogous elements in computer networks
Sender / Recipient	
Mailing addresses	
Sender/Receipient home	End node
Trucks, Planes, Trains, Ships	
Distribution centers	
Transit hubs	

Solution



Shipping Logistics	Computer network equivalence
Sender / Receipient	Application process
Sender / Recipient names	Port numbers
Mailing addresses	IP address
Sender/Recipient home	End node
Trucks, Planes, Trains, Ships	Link technologies
Distribution centers	Switch/Router
Transit hubs	Switch/Router

2. (5 pts) Start Wireshark packet capture, visit several of your favorite websites in a web browser, then stop the packet capture.
- ◆ Pick five captured packets with different protocol name in the Protocol column in Wireshark display.
 - ◆ Explore the packet contents and fill in the following table. Attached in the Wireshark capture screenshots of each of the packets.

Packet No.	Protocols in Packet	Header size (Bytes)	TCP/IP Layer
1			
2			
3 ...			
4 ...			
5 ...			

Solution

Packet	Protocols	Header size (Bytes)	Layer
1	TLSv1.3		Application
	TCP		Transport
	IPv4		Network
	Ethernet		Link
2	TCP		
3 ...	DNS		
4 ...	HTTP		
5 ...	OSCP		