RAMA UNIVERSITY

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FACULTY OF ENGINEERING & TECHNOLOGY

DCS-503 Computer Networks

Lecture-23

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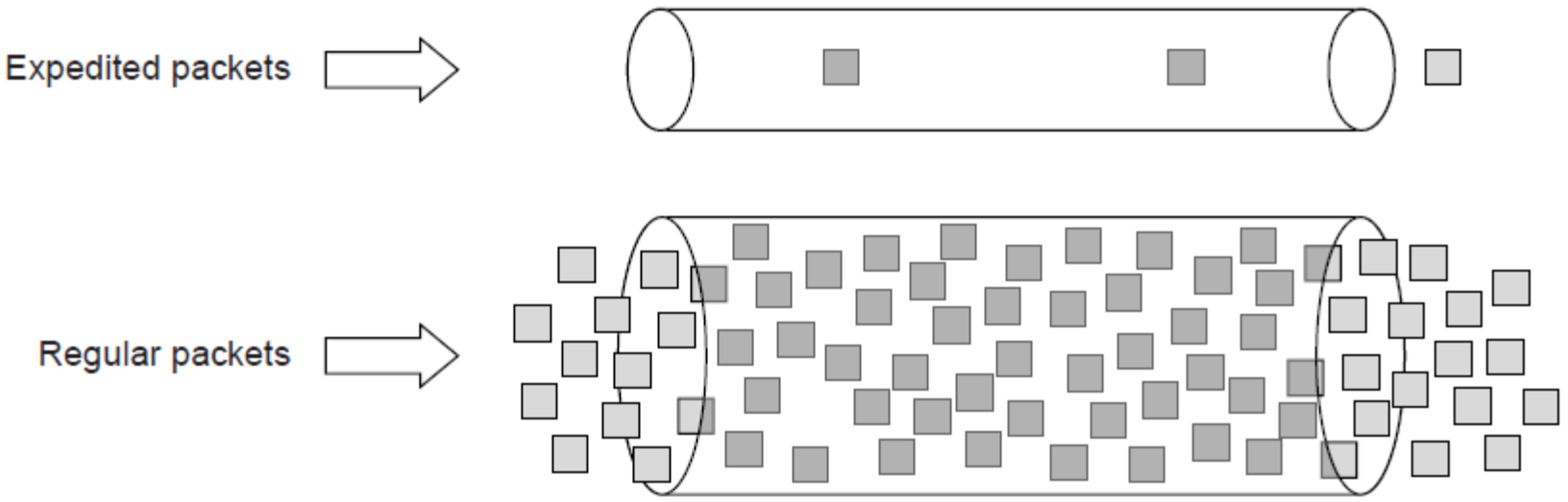
OUTLINE

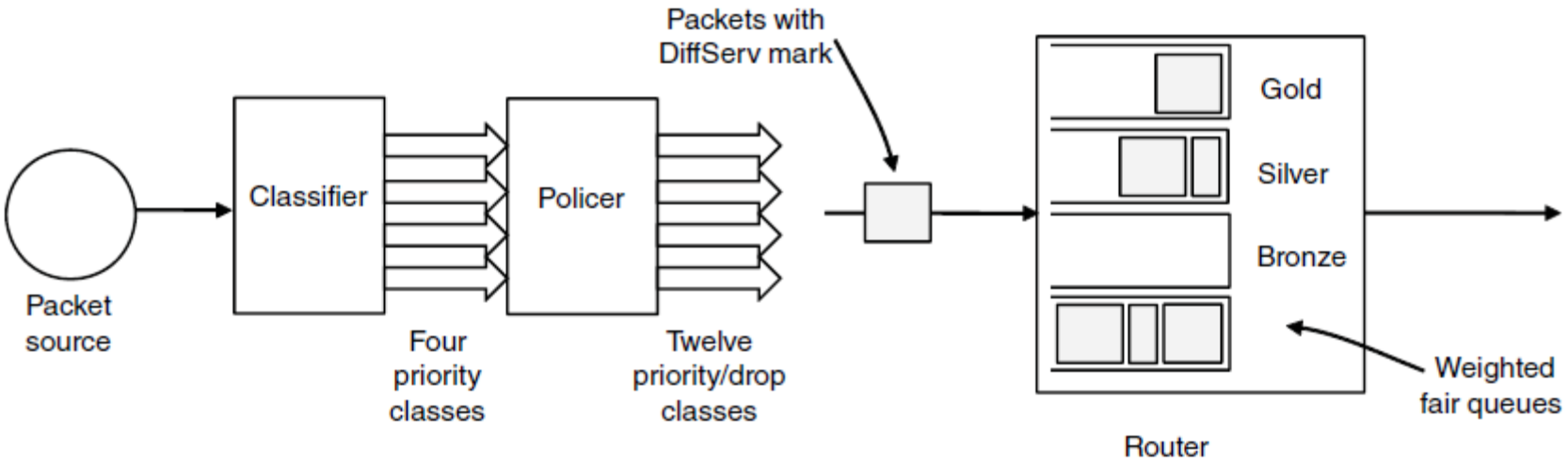
- DIFFERENTIATED SERVICES
- HOW NETWORKS DIFFER
- HOW NETWORKS CAN BE CONNECTED
- TUNNELING

DIFFERENTIATED SERVICES

Expedited packets experience a traffic-free network



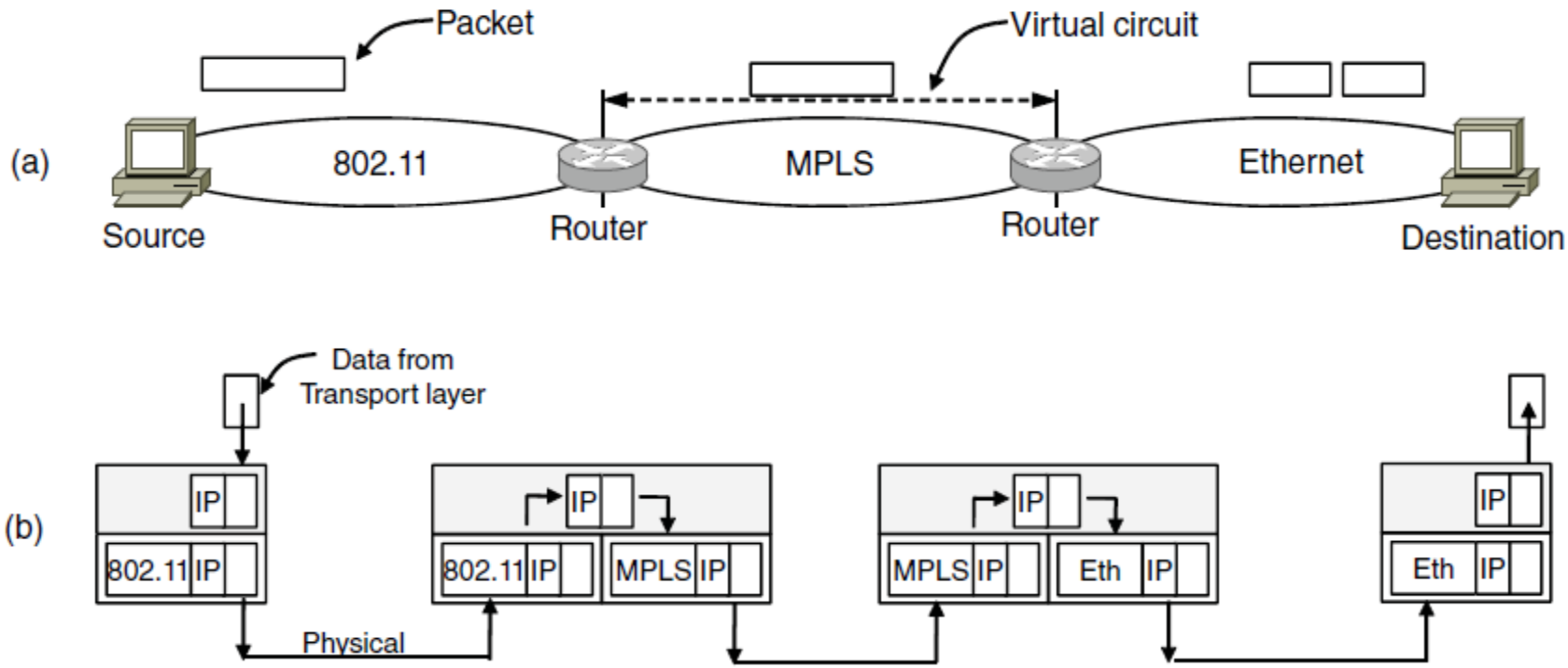
A possible implementation of assured forwarding



HOW NETWORKS DIFFER

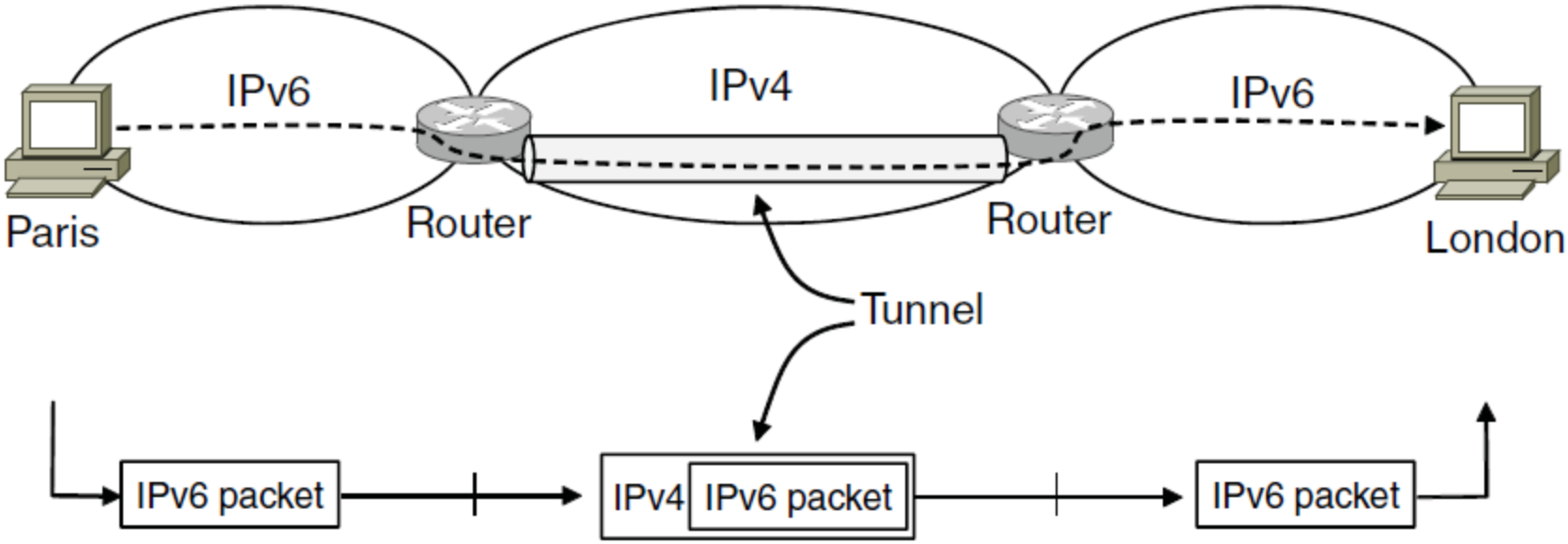
Item	Some Possibilities
Service offered	Connectionless versus connection oriented
Addressing	Different sizes, flat or hierarchical
Broadcasting	Present or absent (also multicast)
Packet size	Every network has its own maximum
Ordering	Ordered and unordered delivery
Quality of service	Present or absent; many different kinds
Reliability	Different levels of loss
Security	Privacy rules, encryption, etc.
Parameters	Different timeouts, flow specifications, etc.
Accounting	By connect time, packet, byte, or not at all

HOW NETWORKS CAN BE CONNECTED



(a)A packet crossing different networks.
(b)Network and link layer protocol processing

TUNNELING


IPv6
IPv4
IPv6
Paris
Router
Router
London
Tunnel
IPv6 packet
IPv4
IPv6 packet
IPv6 packet

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
2	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 communication
5	Which of the following is a transport layer protocol?	stream control transmission protocol	internet control message protocol	neighbor discovery protocol	dynamic host configuration protocol

REFERENCES

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