

ATM

Figure 19-1

Multiplexing Using Different Packet Sizes

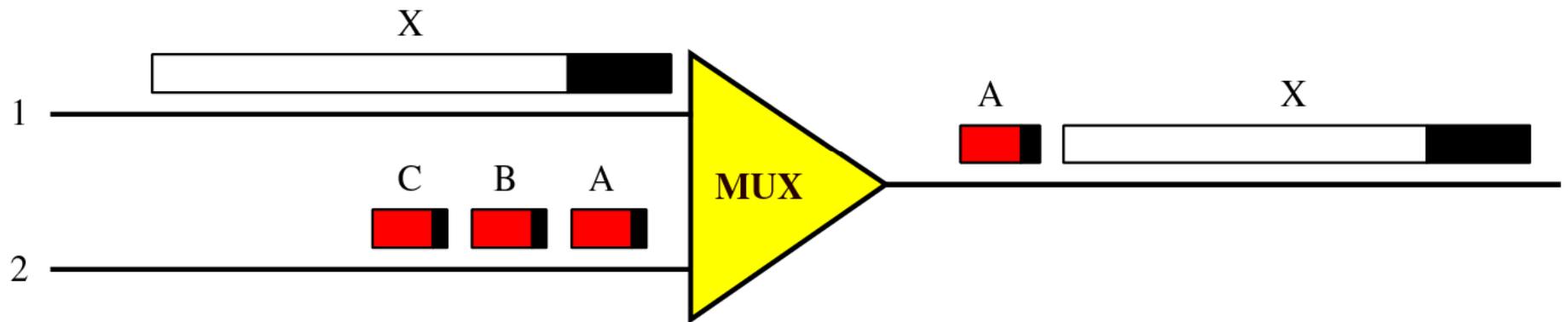


Figure 19-2

Multiplexing Using Cells

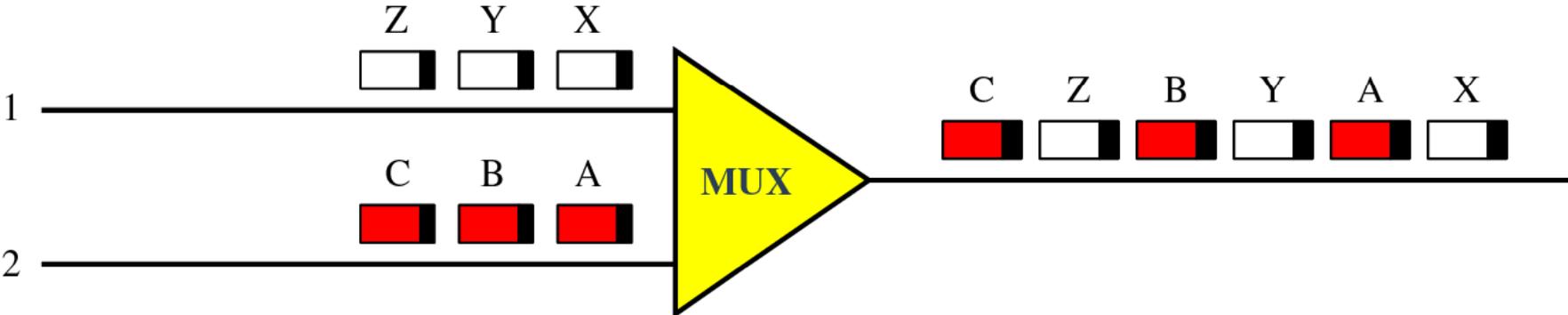


Figure 19-3

ATM Multiplexing

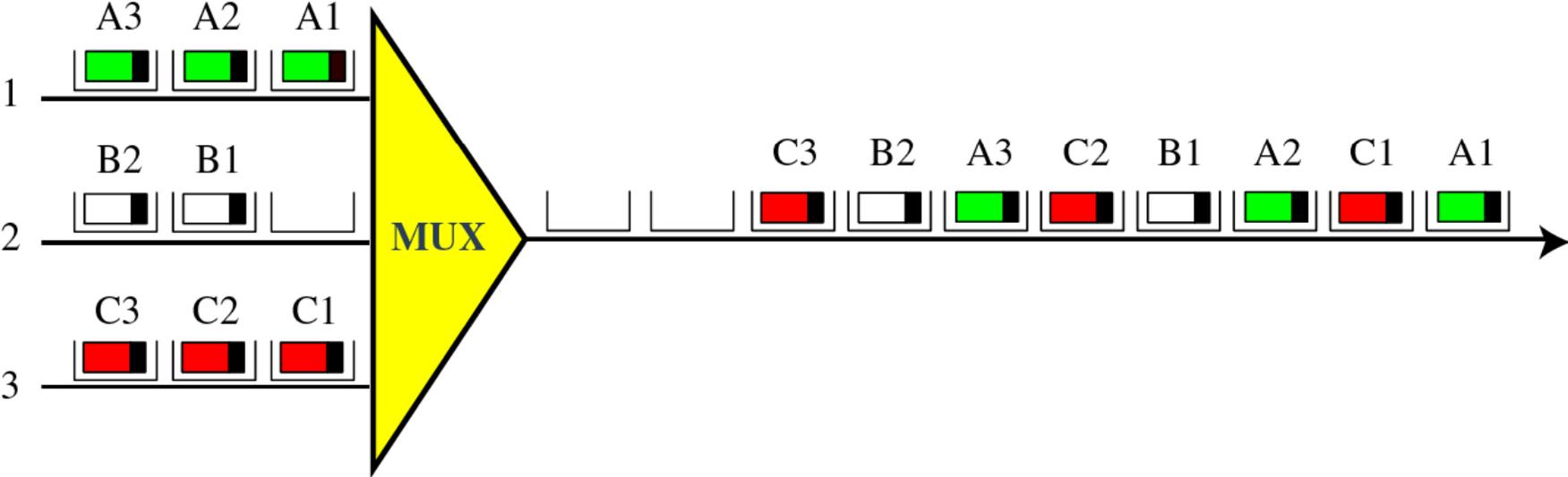


Figure 19-4

Architecture of an ATM Network

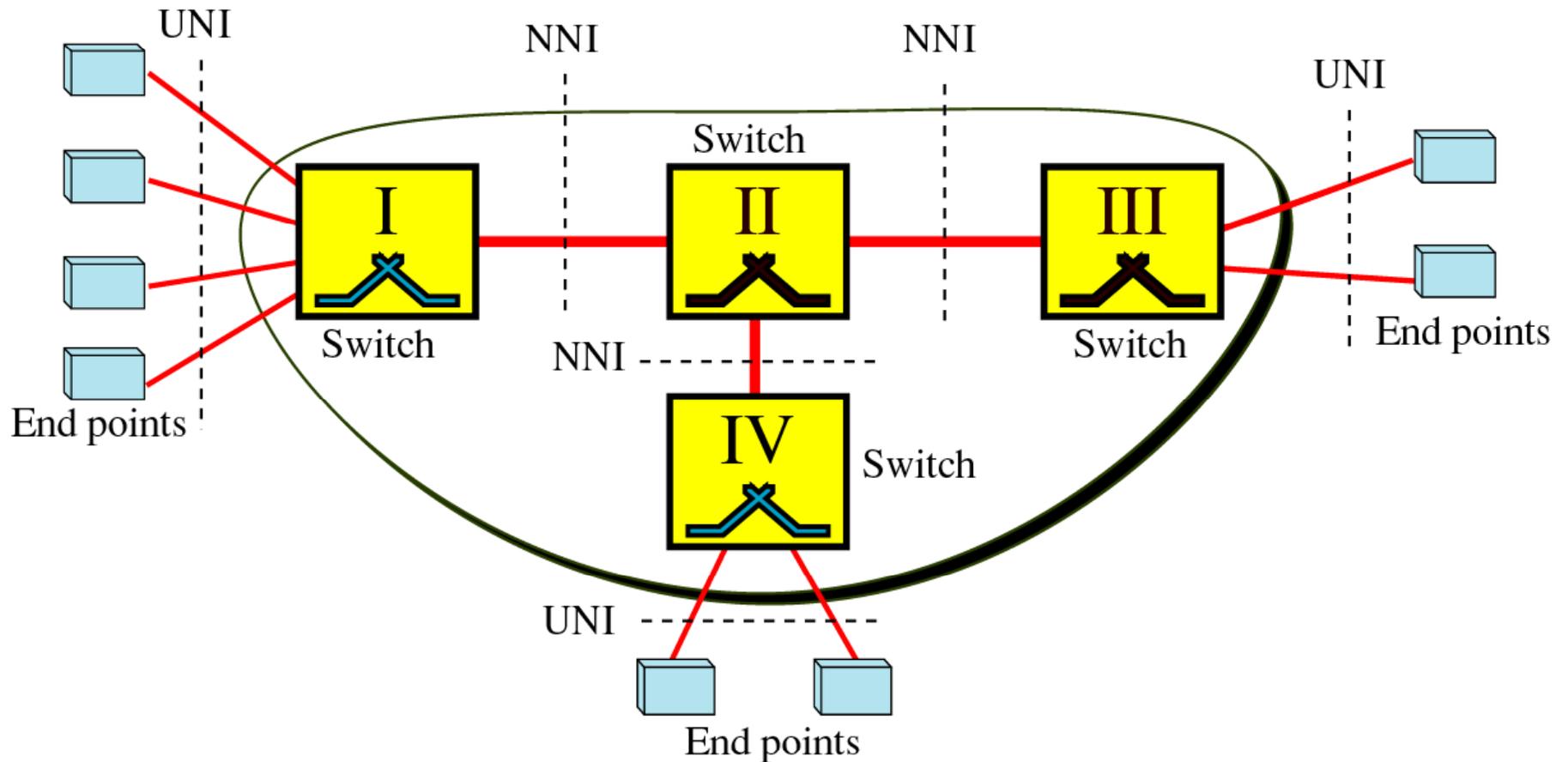


Figure 19-5

TP, VPs, and VCs

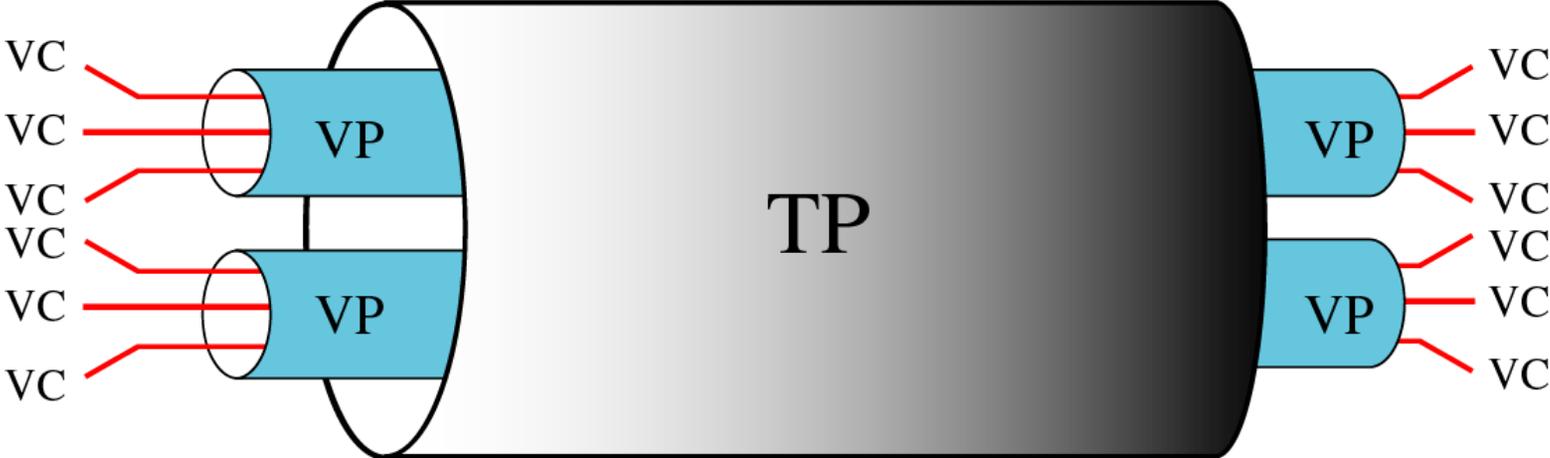


Figure 19-6

Example of VPs and VCs

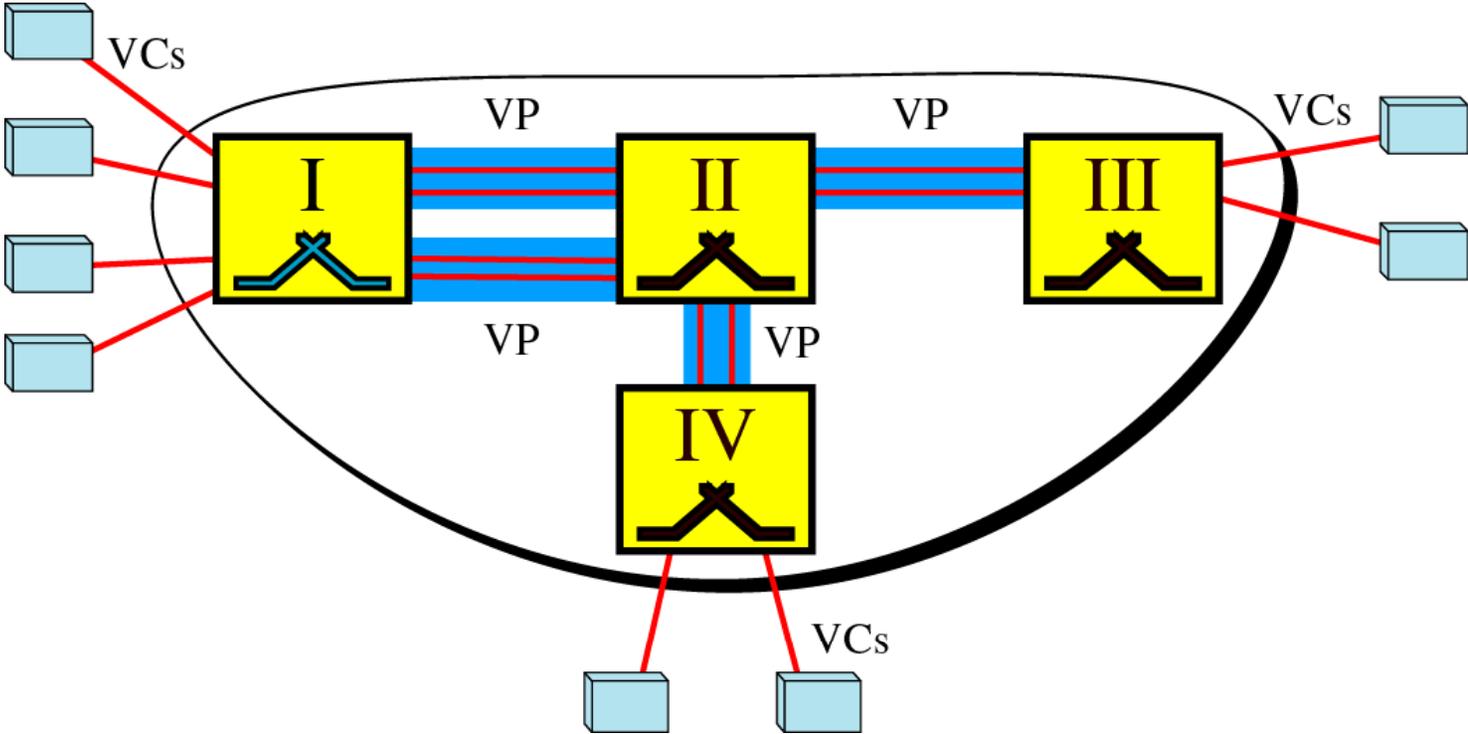


Figure 19-7

Connection Identifiers

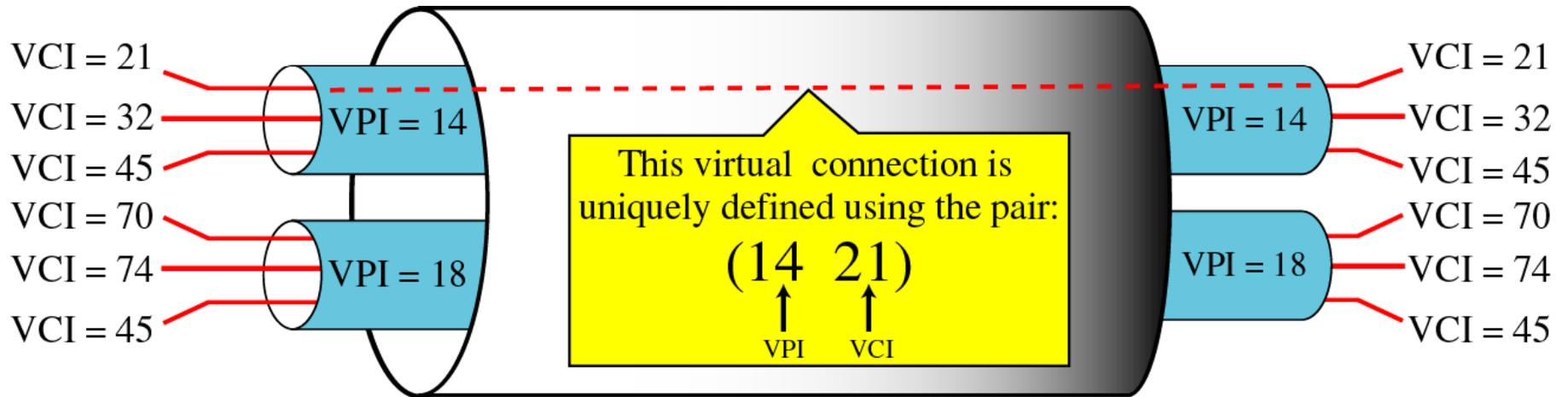
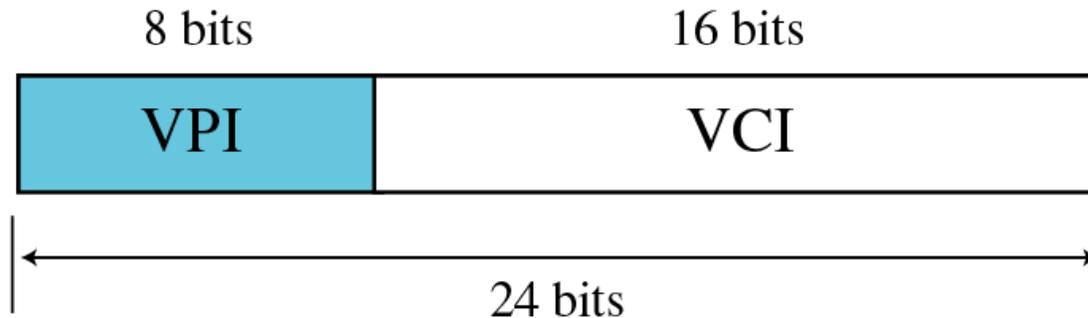
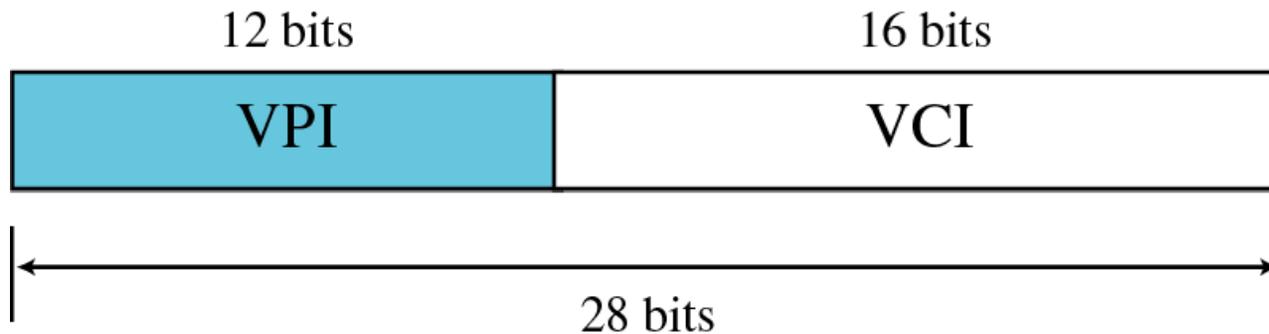


Figure 19-8

Virtual Connection Identifiers in UNIs and NNIs



a. VPI and VCI in a UNI interface



b. VPI and VCI in an NNI interface

Figure 19-9

An ATM Cell

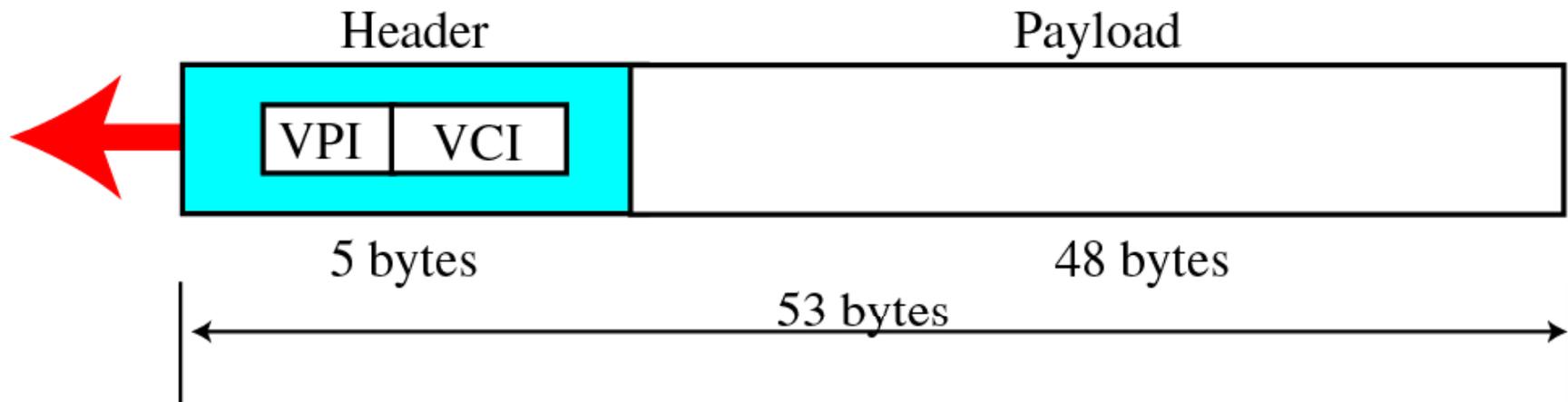


Figure 19-10

SVC Setup

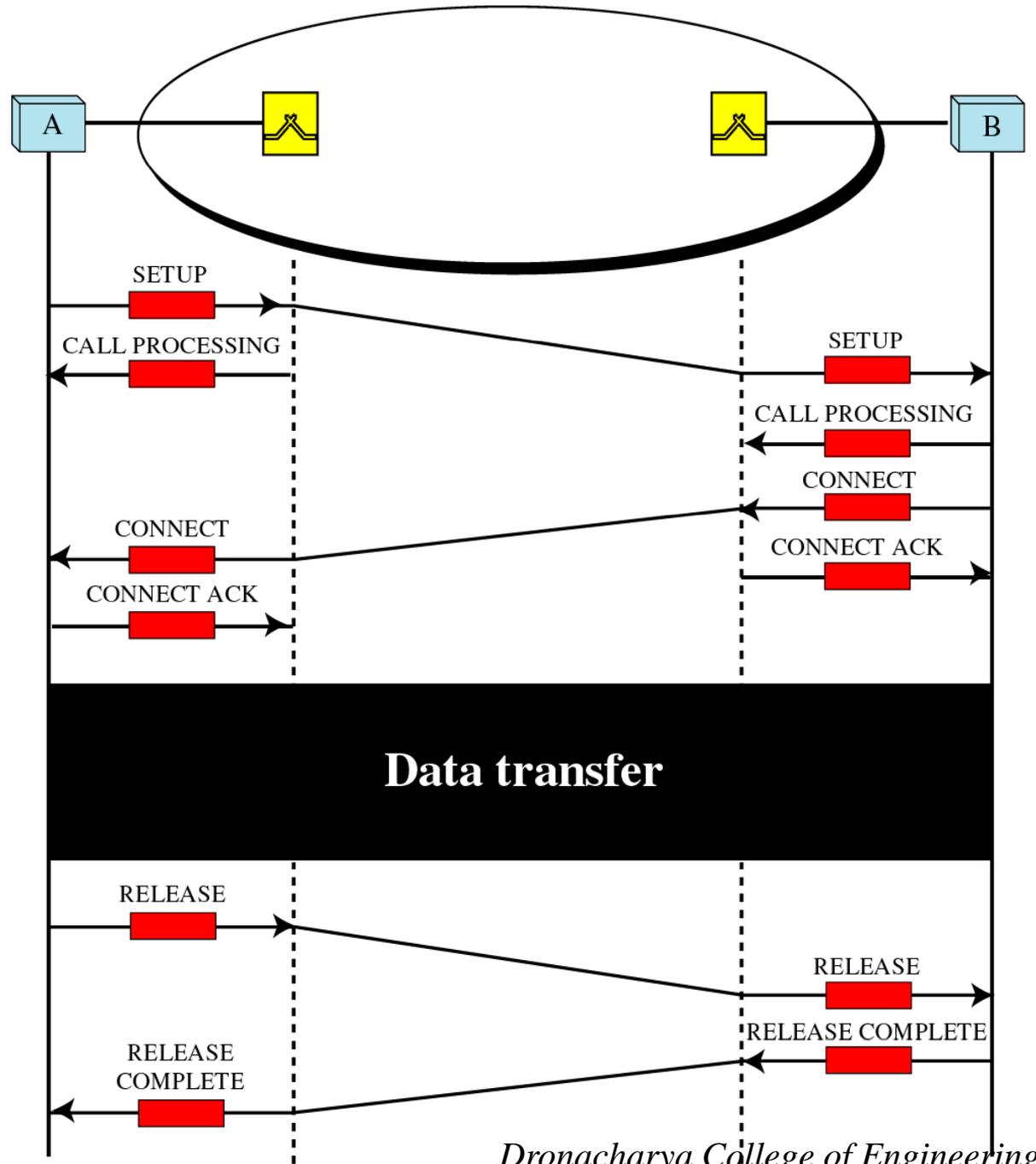


Figure 19-11

Routing with a VP Switch

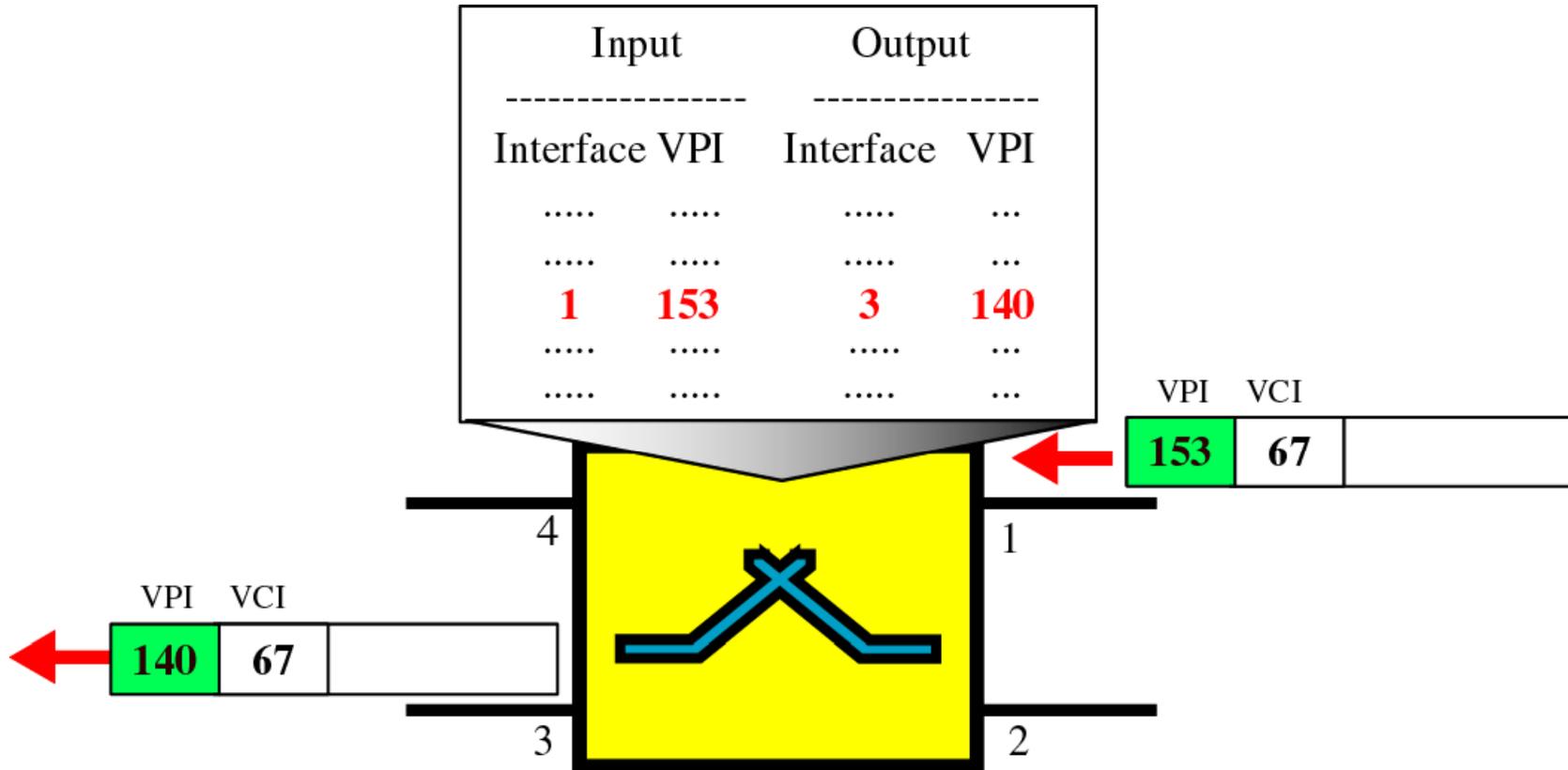


Figure 19-12

A Conceptual View of a VP Switch

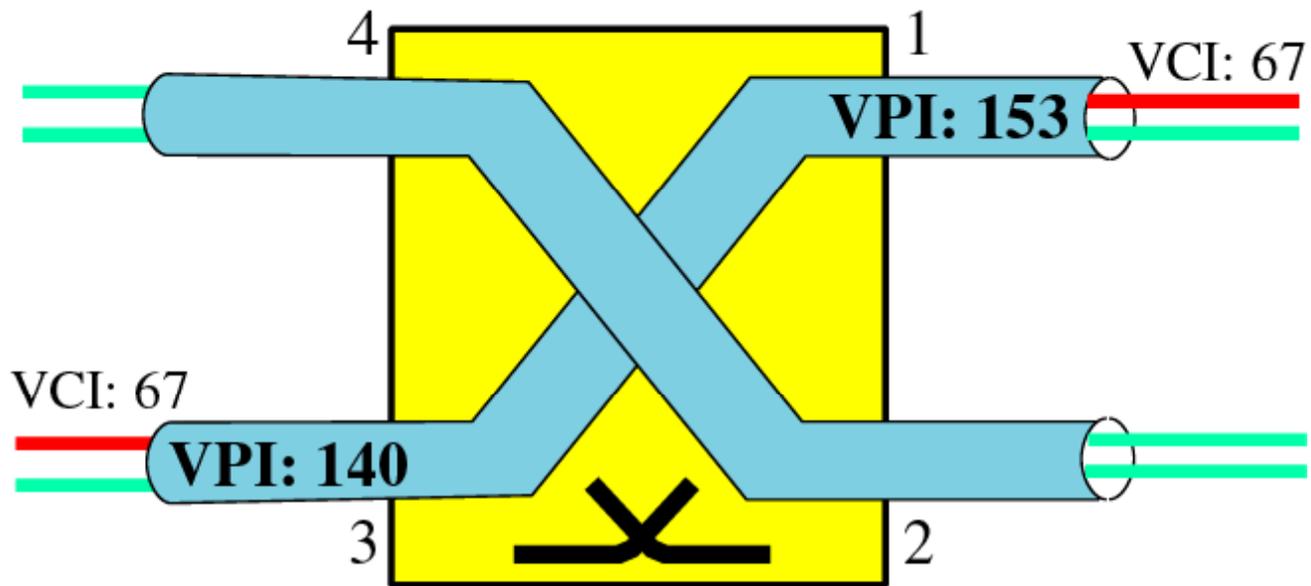


Figure 19-13

Routing with a VPC Switch

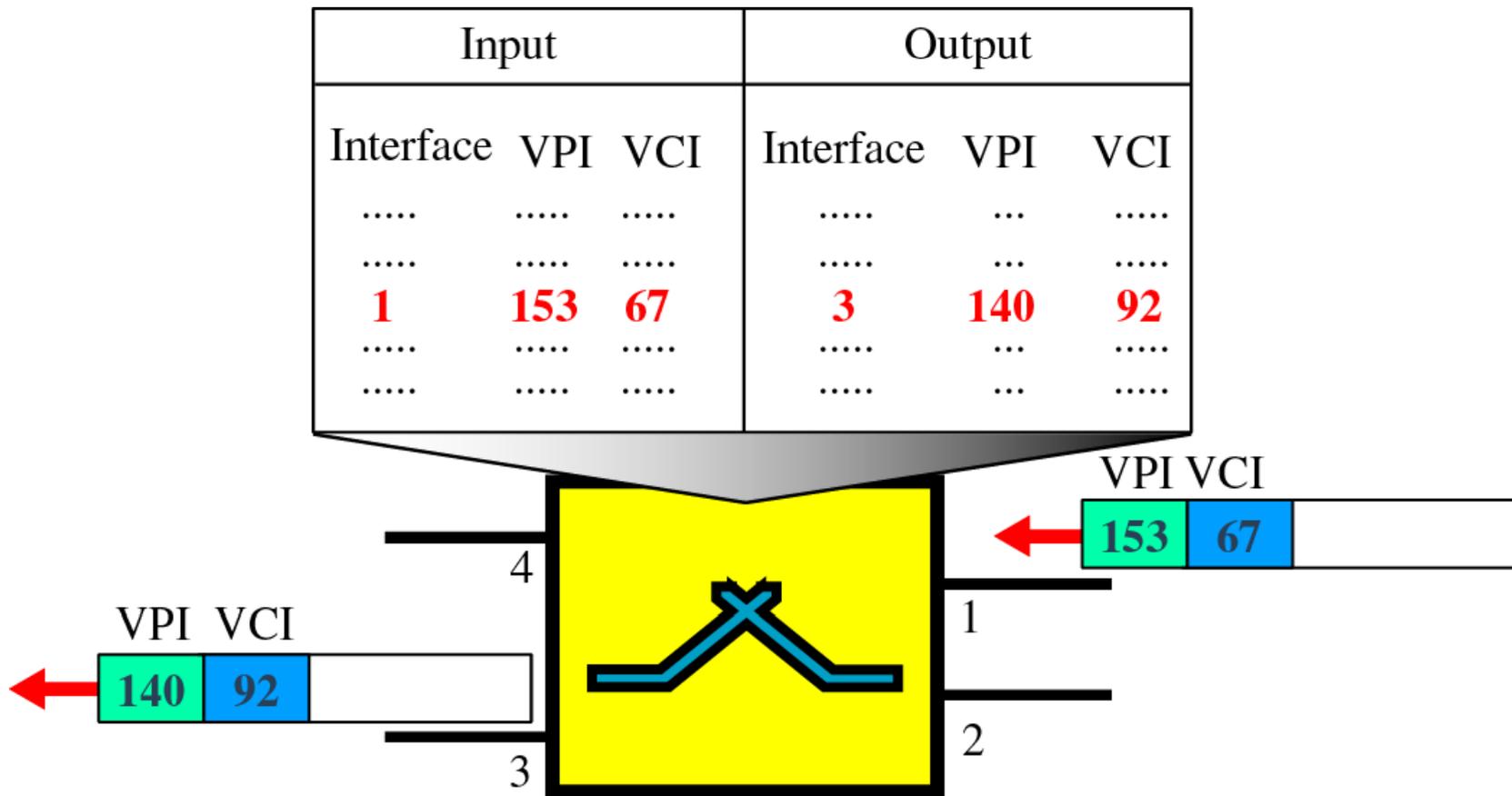


Figure 19-14

A Conceptual View of a VPC Switch

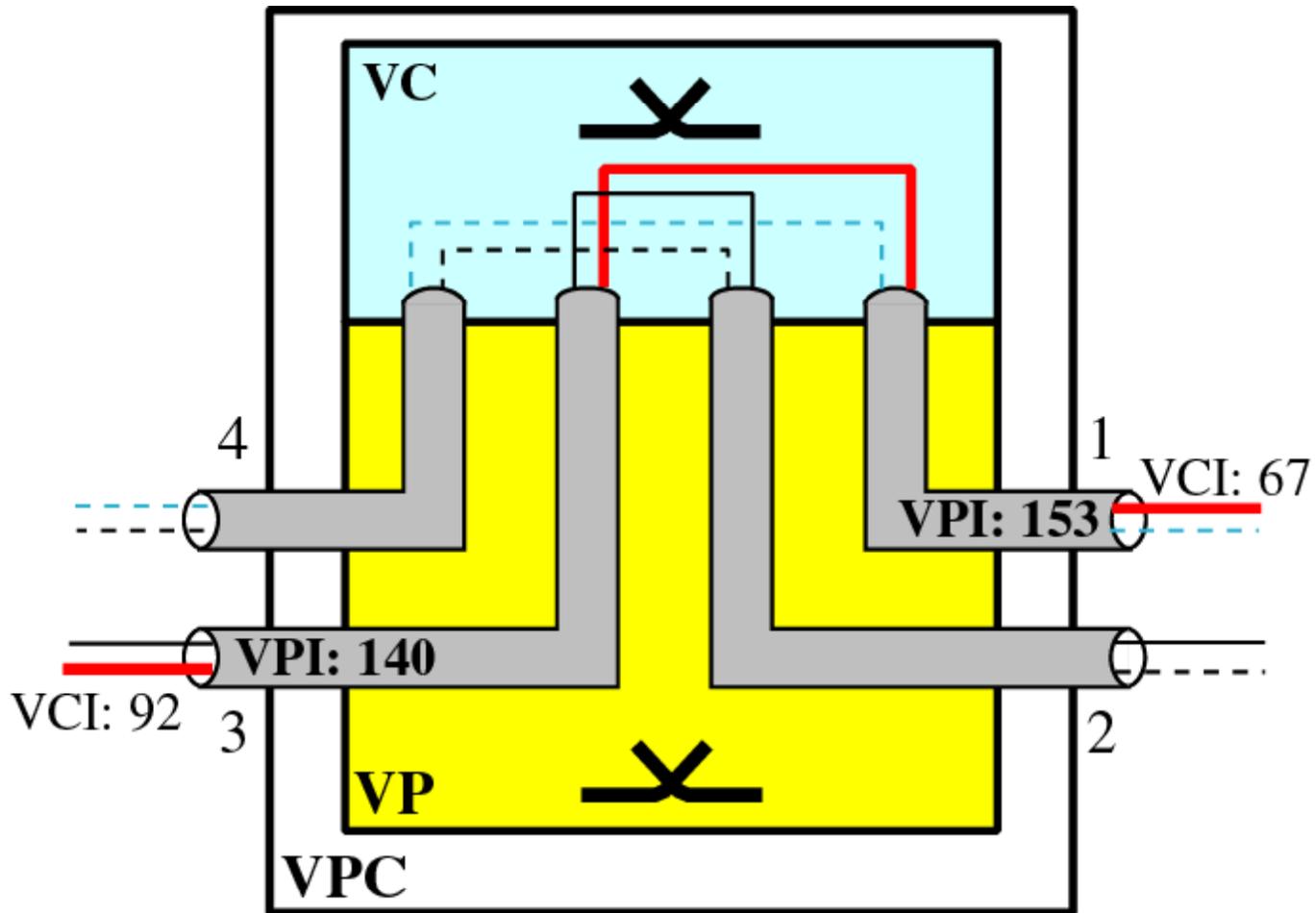


Figure 19-15

Crossbar Switch

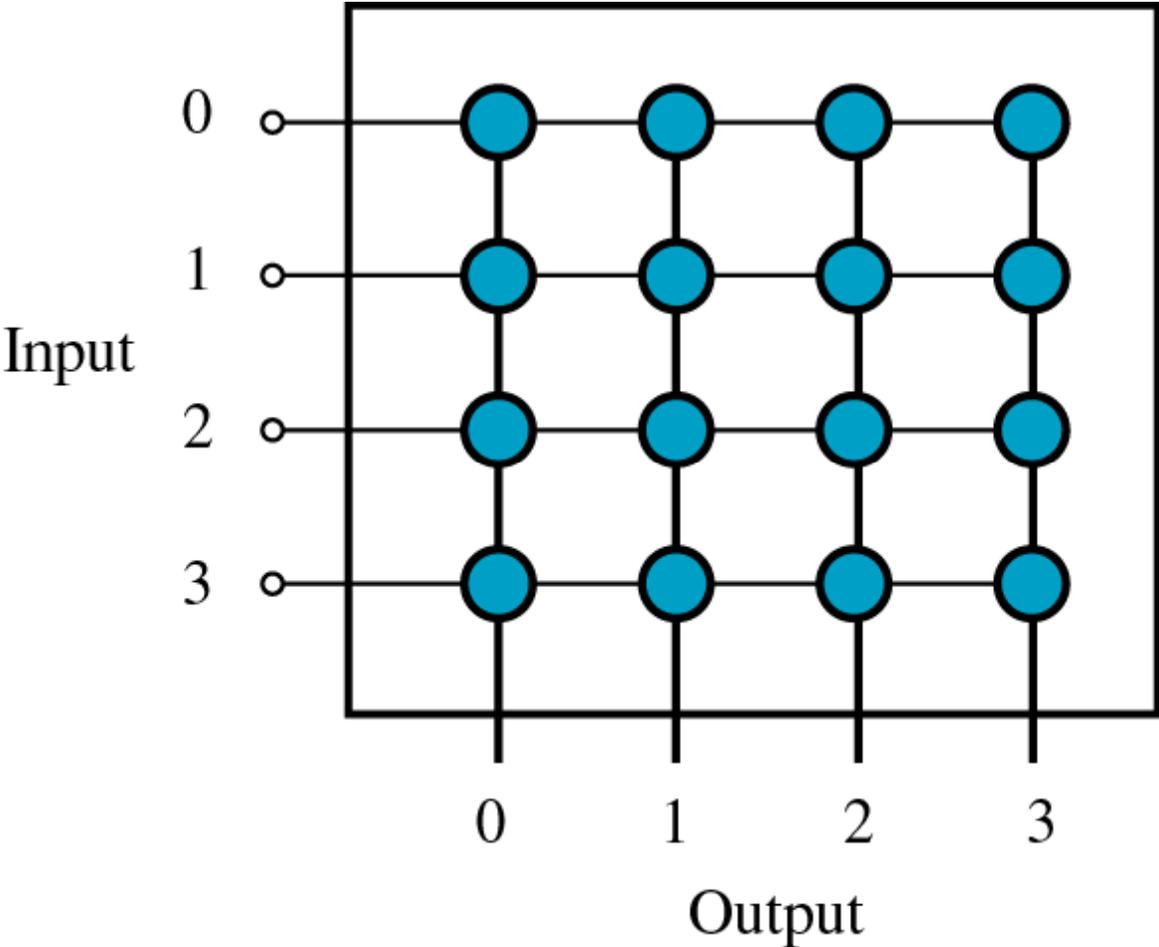


Figure 19-16

Knockout Switch

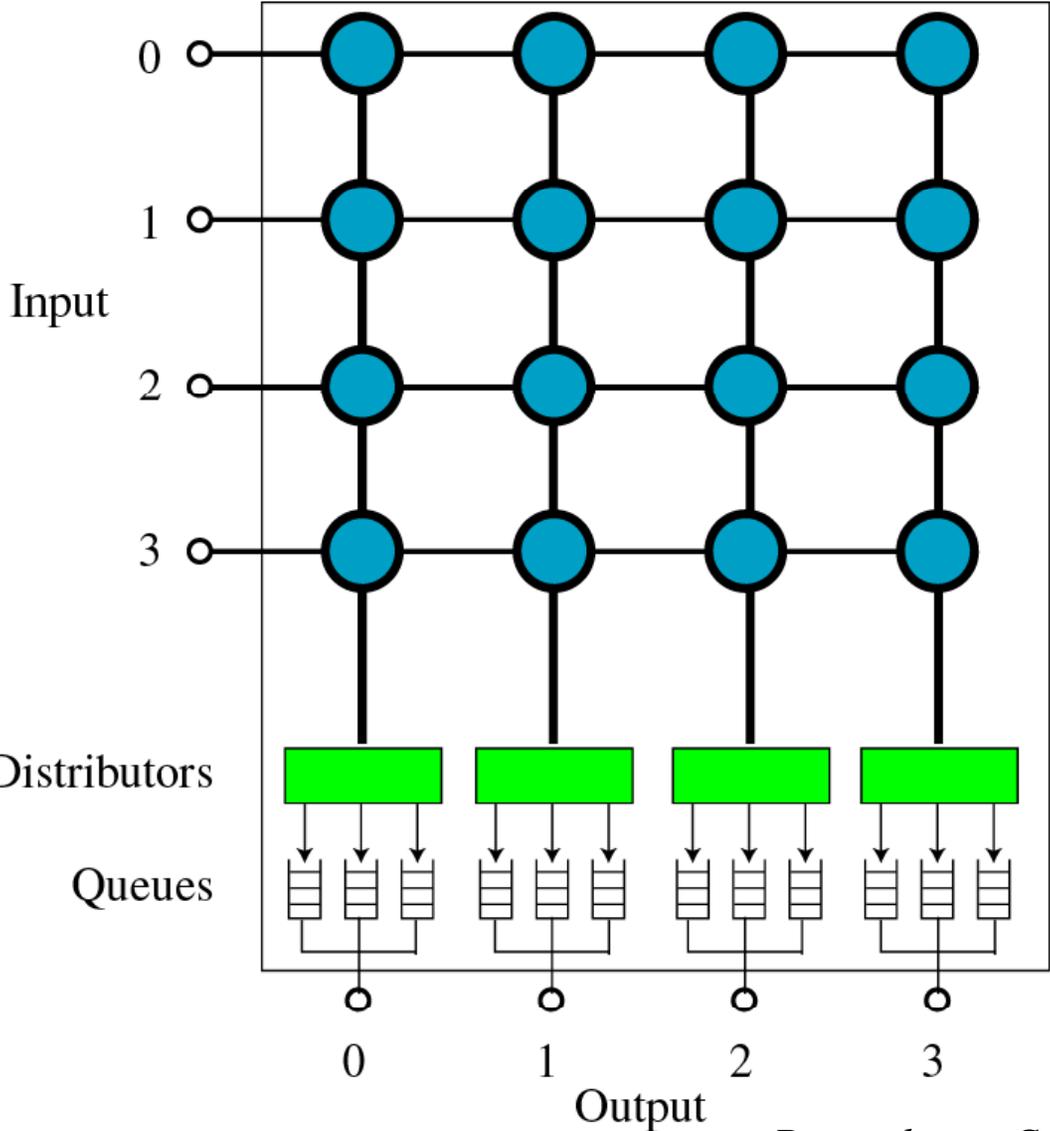


Figure 19-17

A Banyan Switch

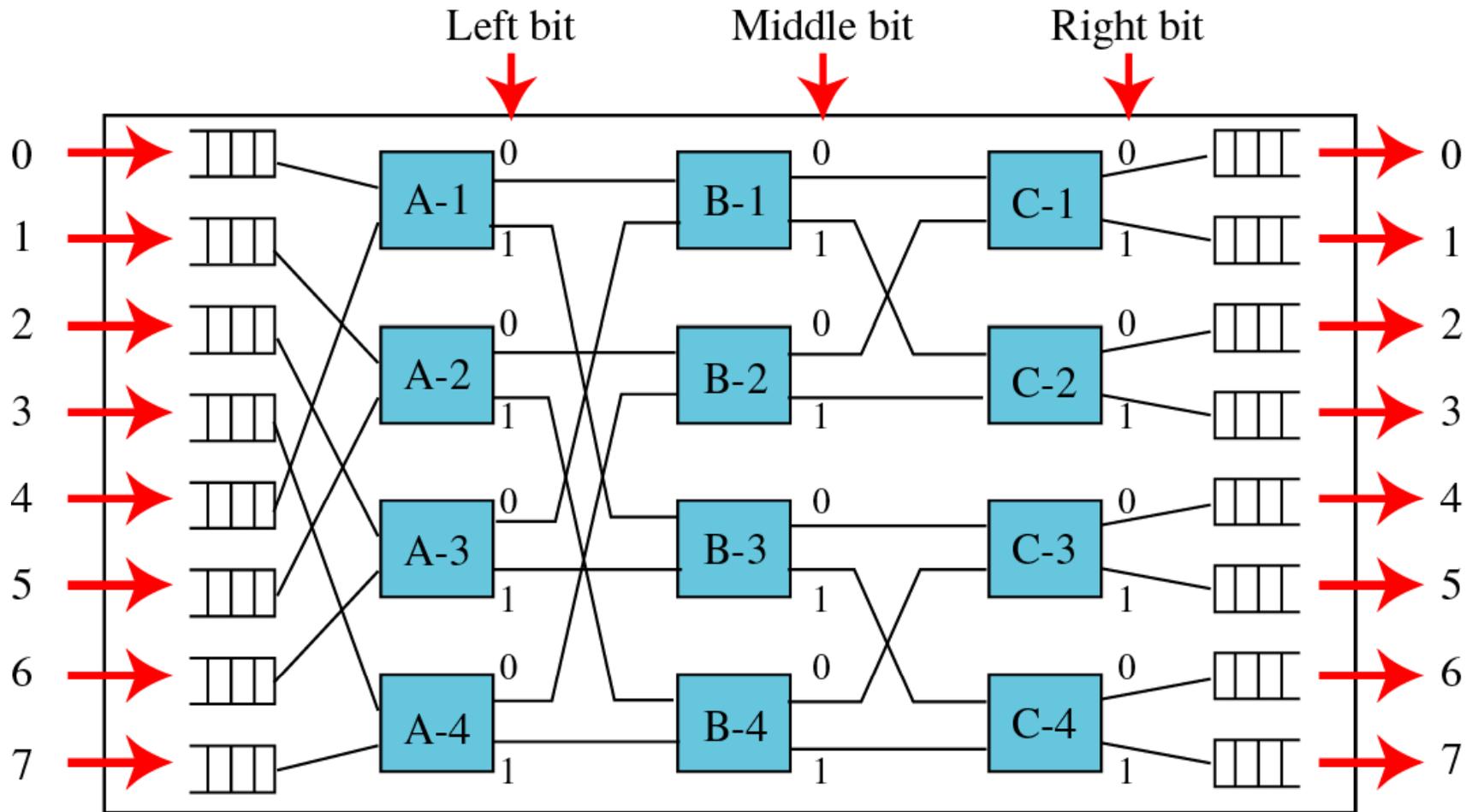
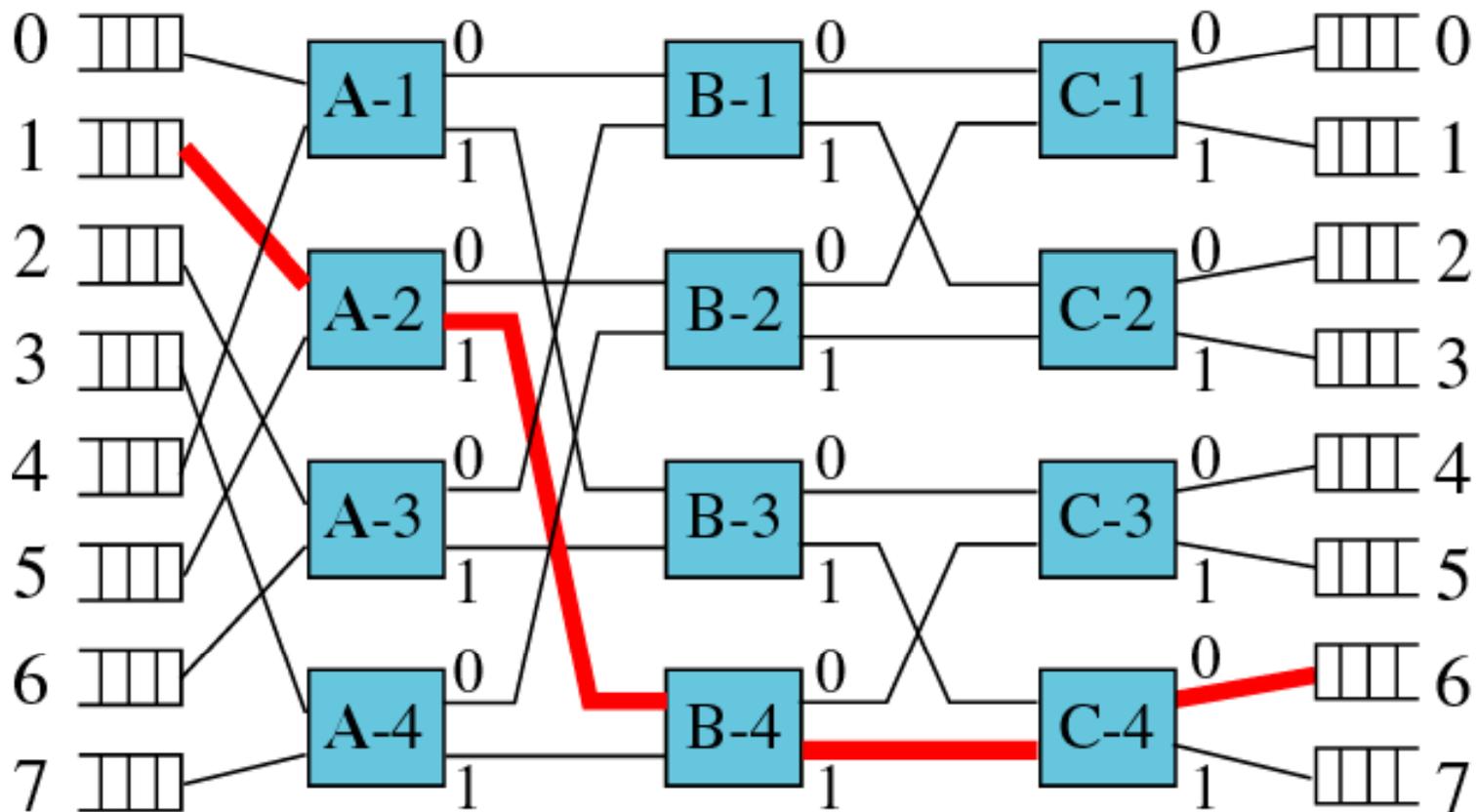


Figure 19-18-Part I

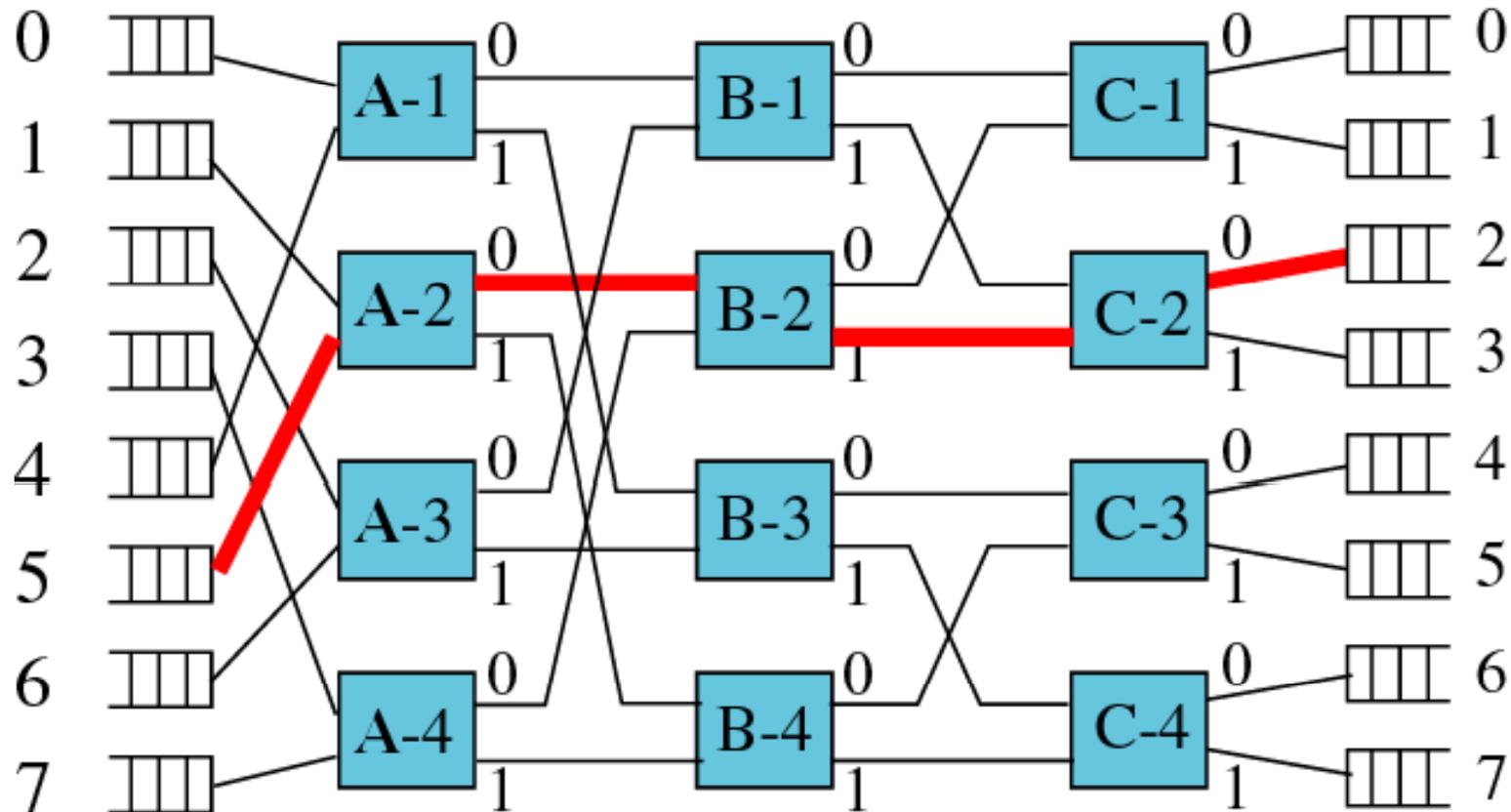
Example of Routing in a Banyan Switch (a)



a. Input 1 sending a cell to input 6 (110)

Figure 19-18-Part II

Example of Routing in a Banyan Switch (b)



b. Input 5 sending a cell to input 2 (010)

Figure 19-19

Batcher-Banyan Switch

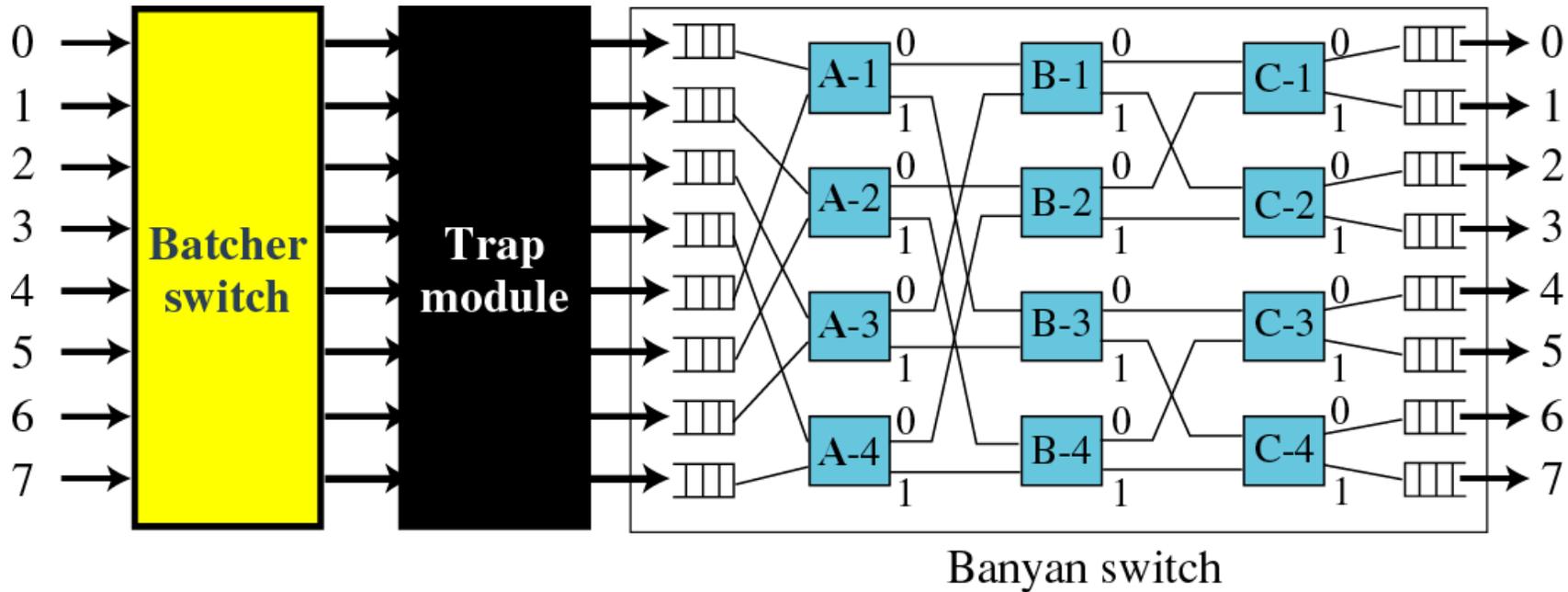


Figure 19-20

ATM Layers

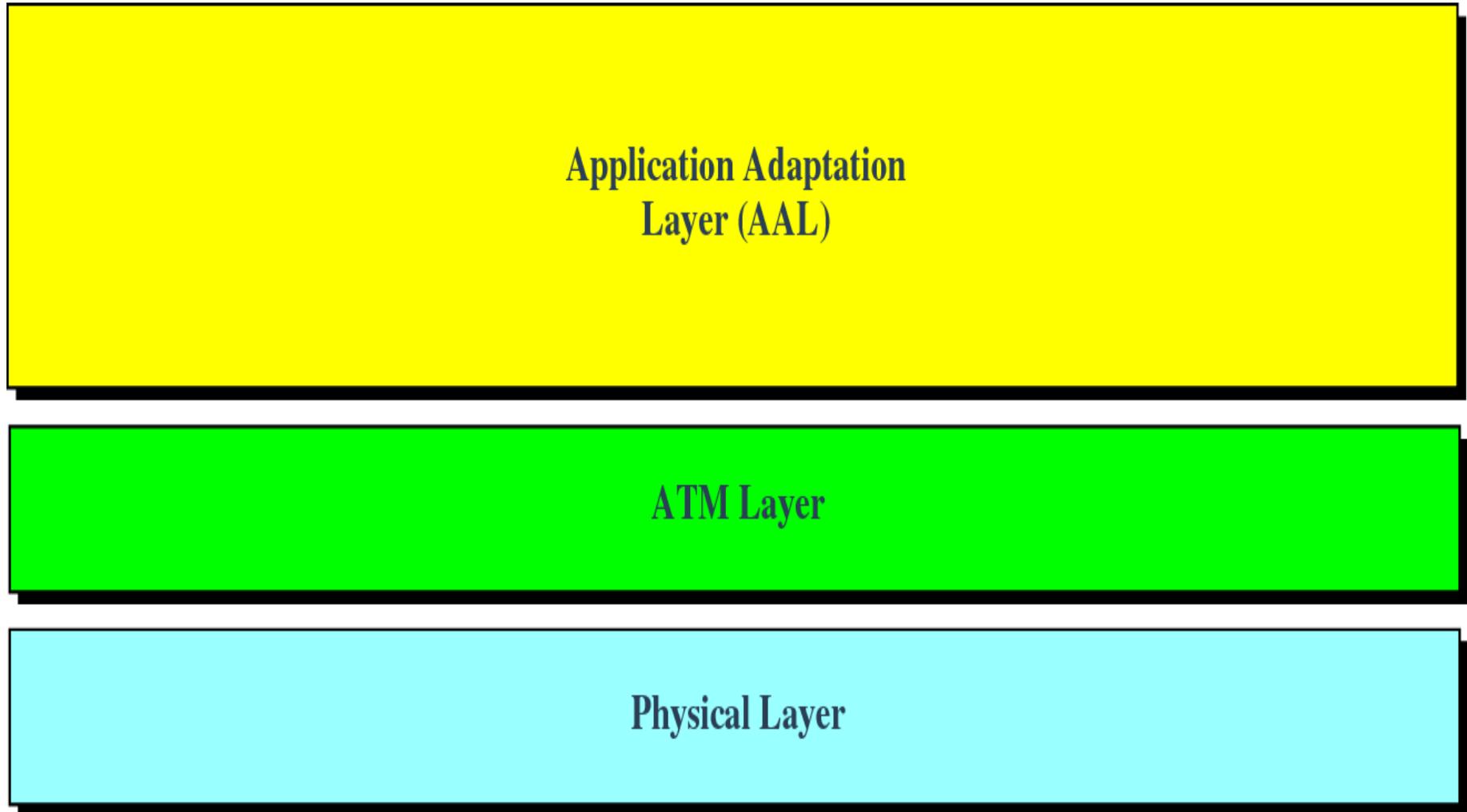


Figure 19-21

ATM Layers in End-Point Devices and Switches

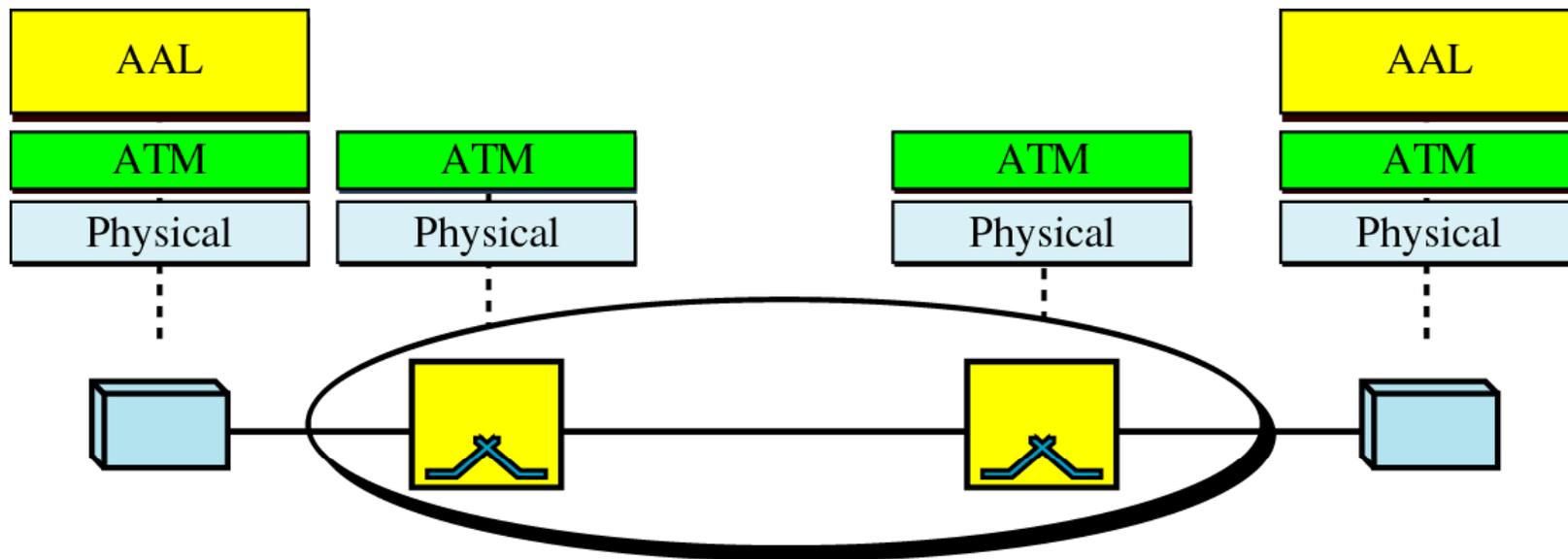


Figure 19-22

AAL Types

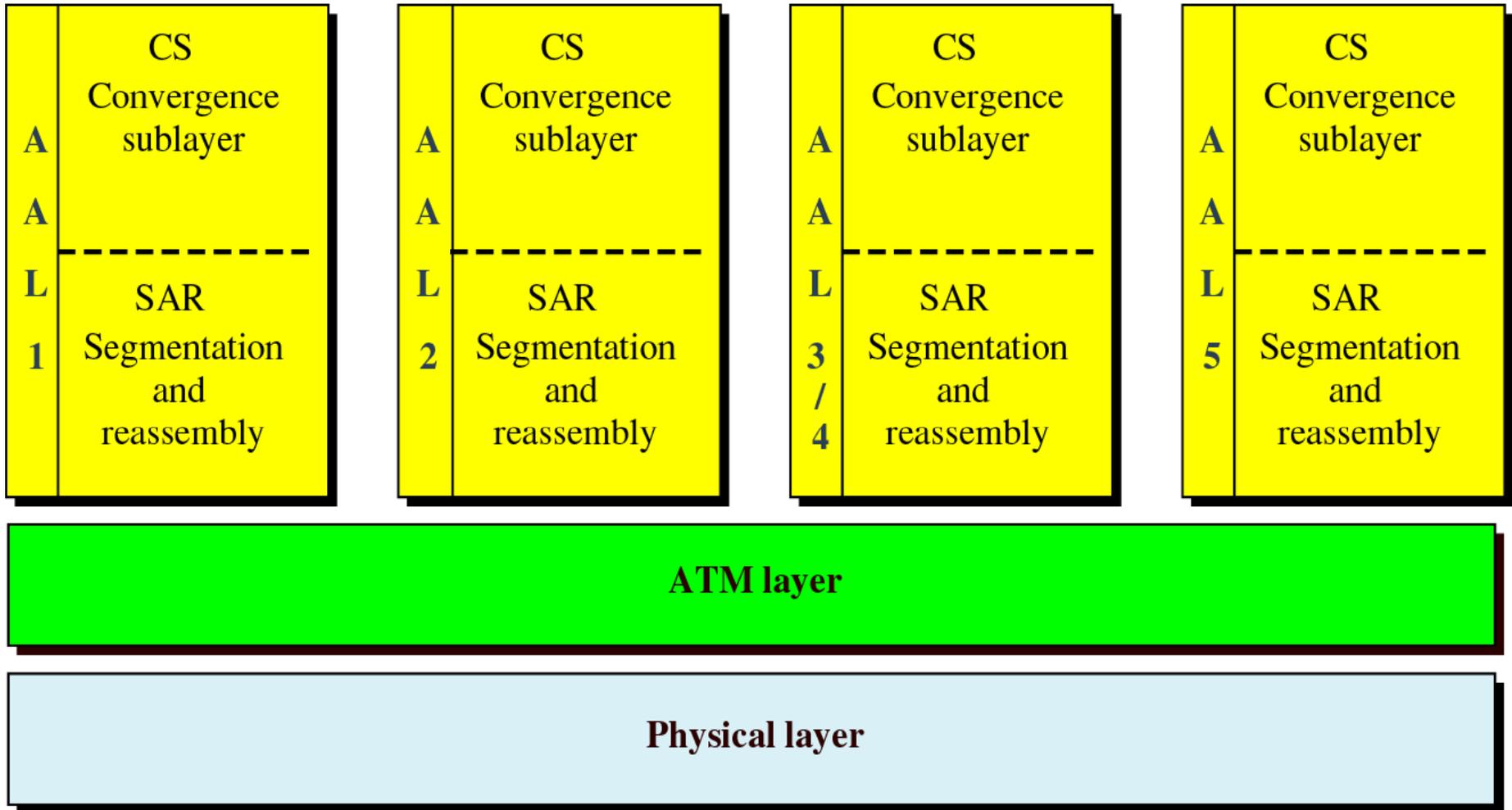


Figure 19-23

AAL1

Constant bit rate data from upper layer

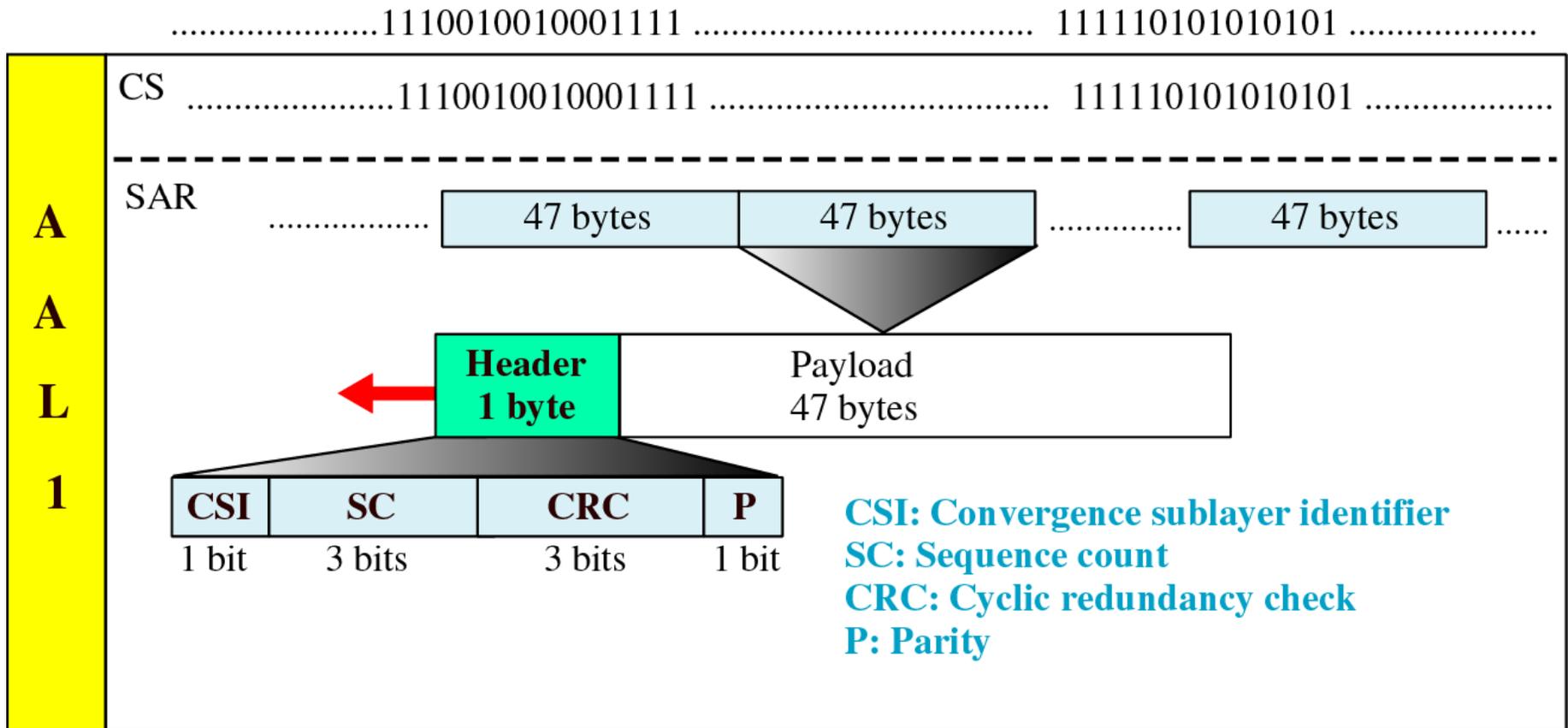


Figure 19-25

AAL3/4

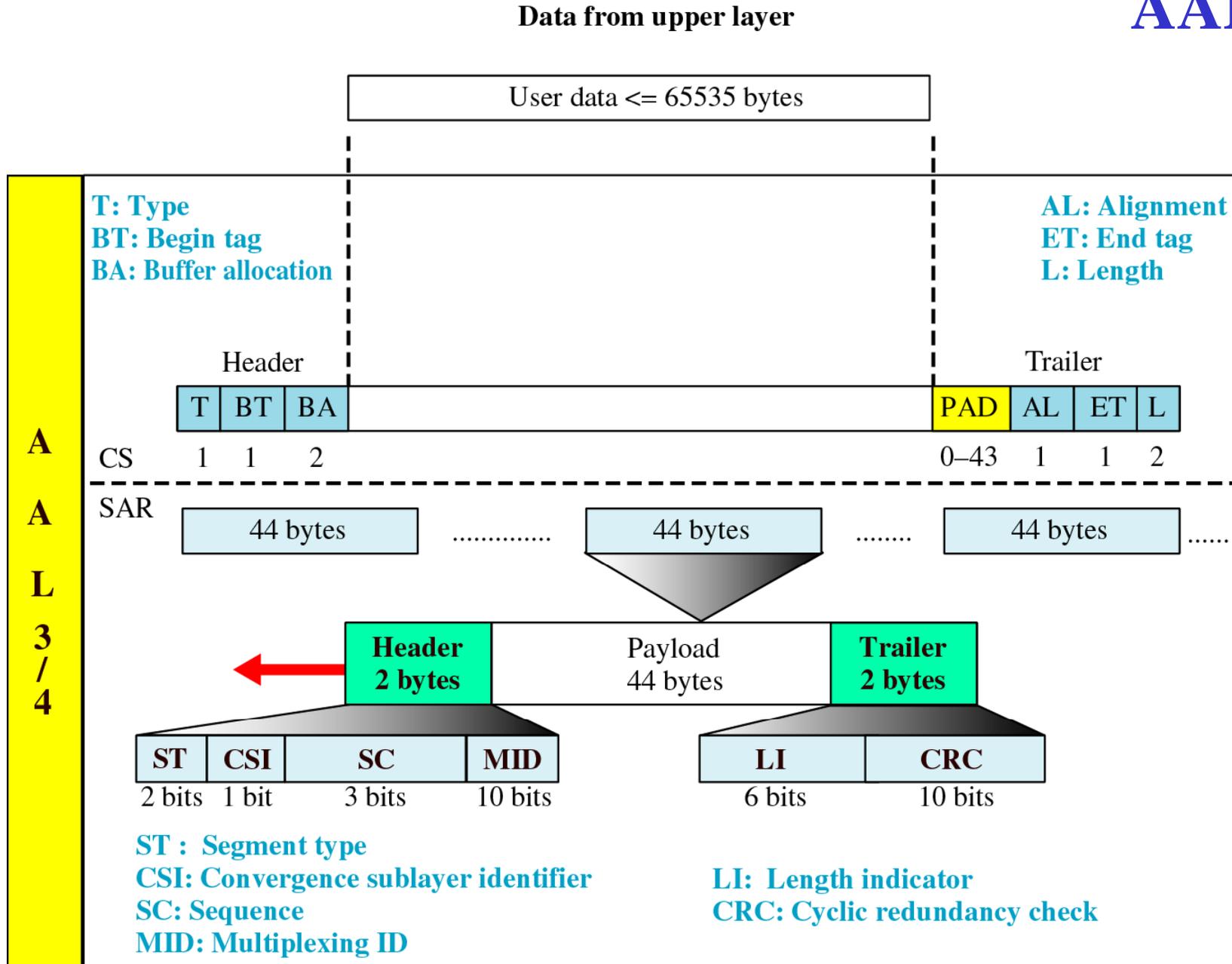


Figure 19-26

AAL5

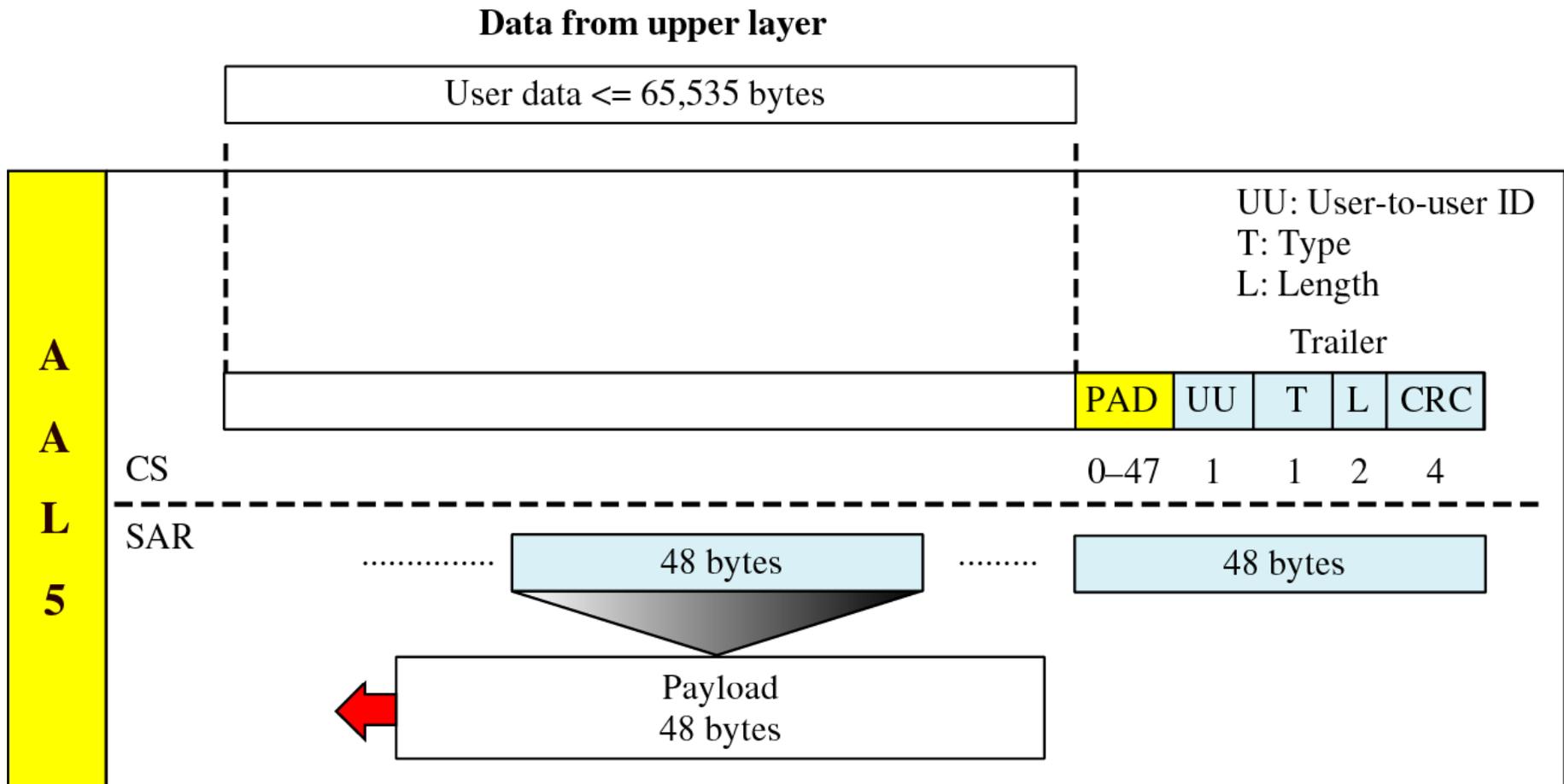


Figure 19-27

ATM Layer

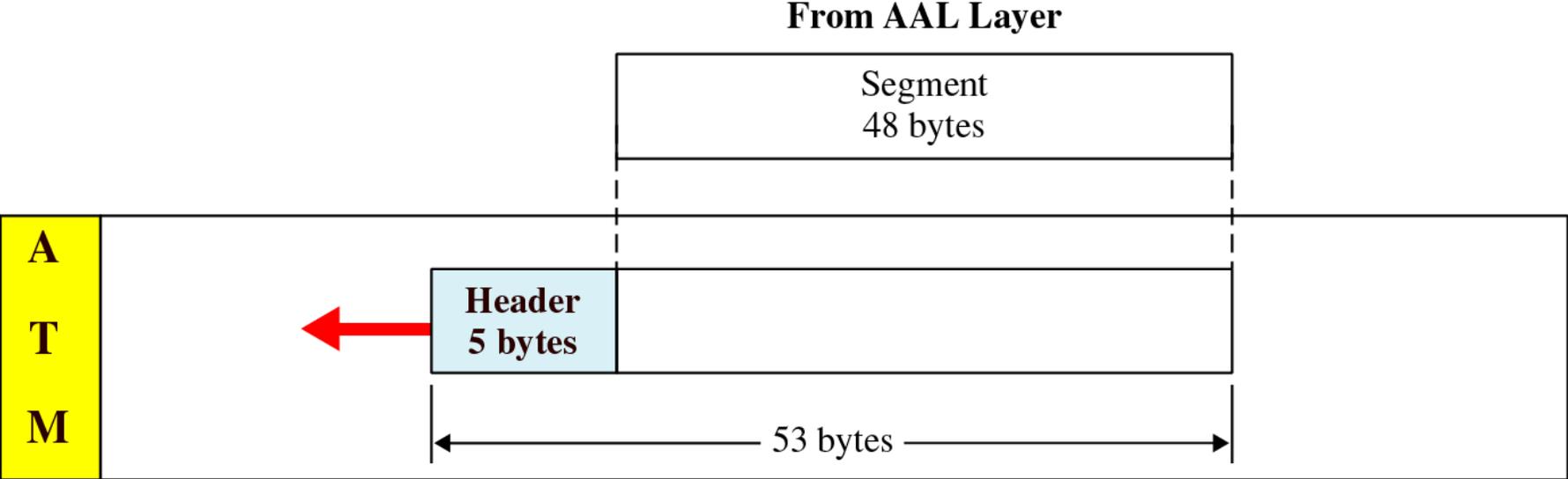
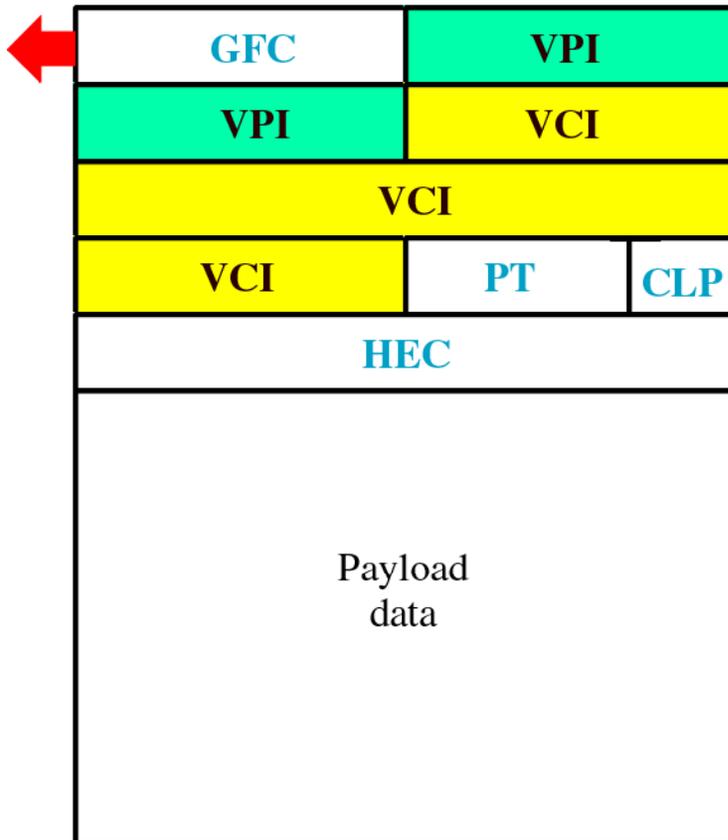


Figure 19-28

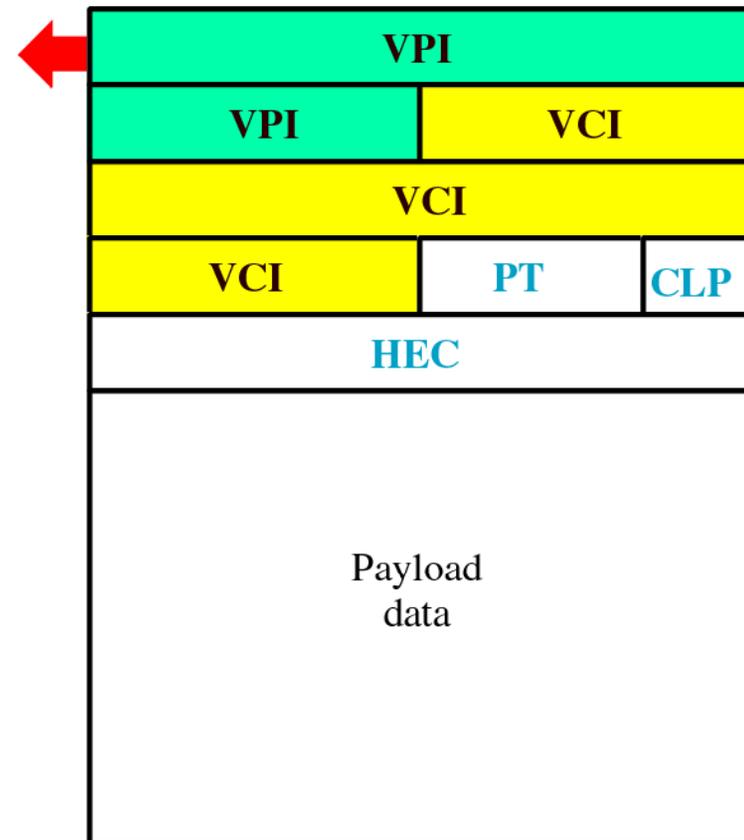
ATM Header

GFC: Generic flow control
VPI: Virtual path identifier
VCI: Virtual channel identifier

PT: Payload type
CLP: Cell loss priority
HEC: Header error control



UNI Cell



NNI Cell
Dronacharya College of Engineering

Figure 19-29

PT Fields

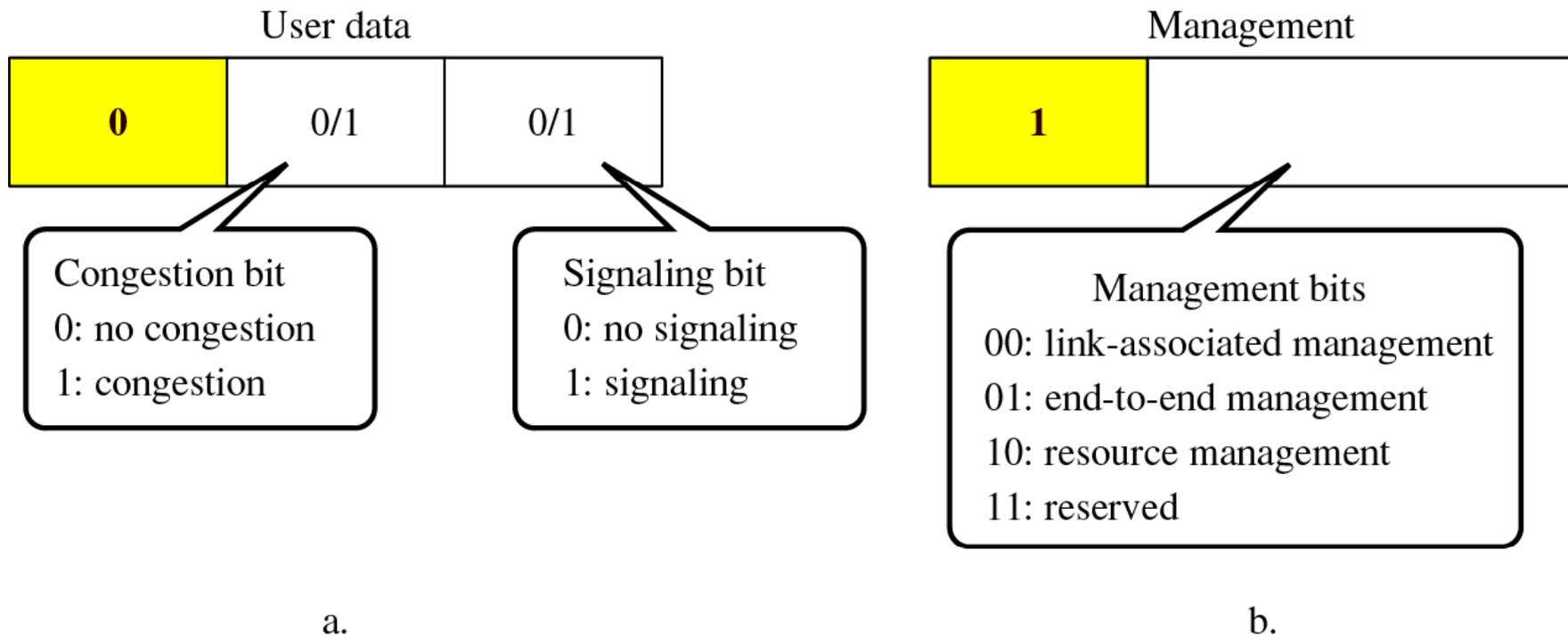


Figure 19-30

Service Classes

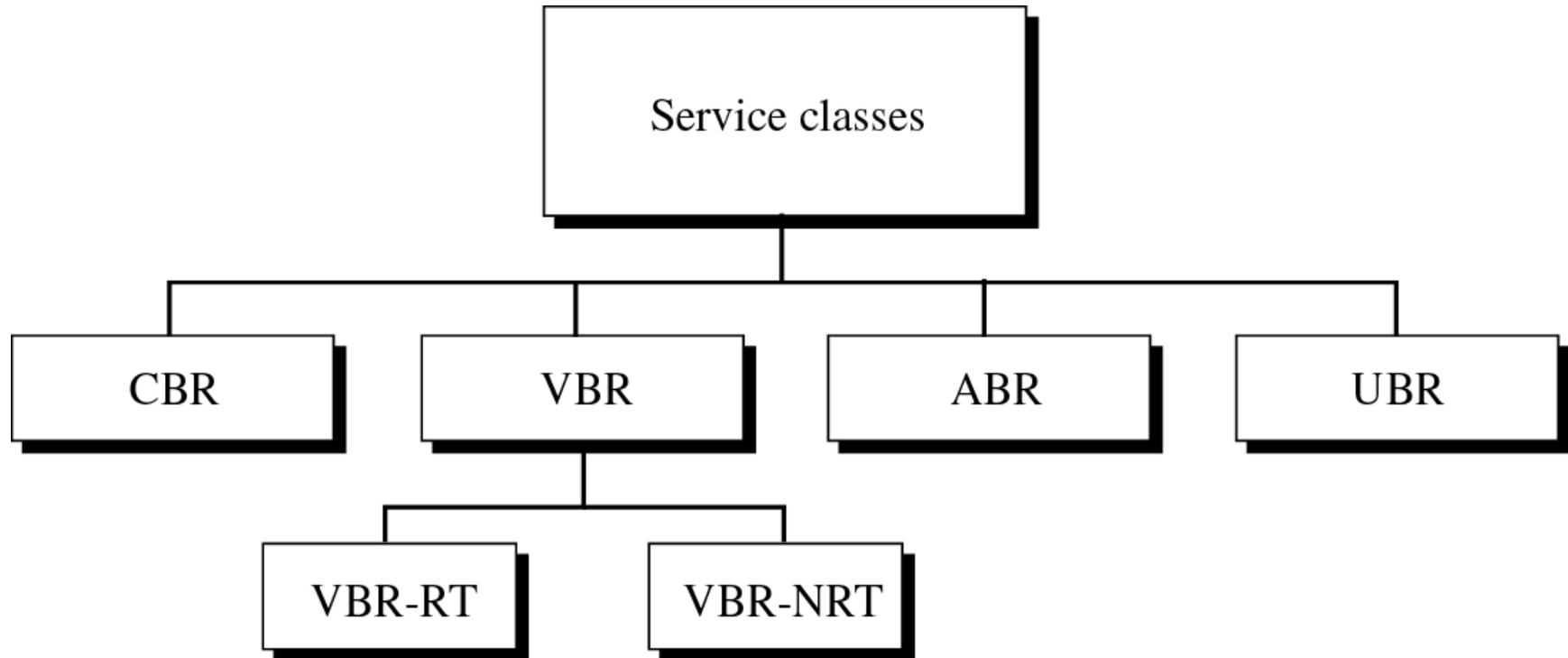


Figure 19-31

Service Classes and Capacity of Network

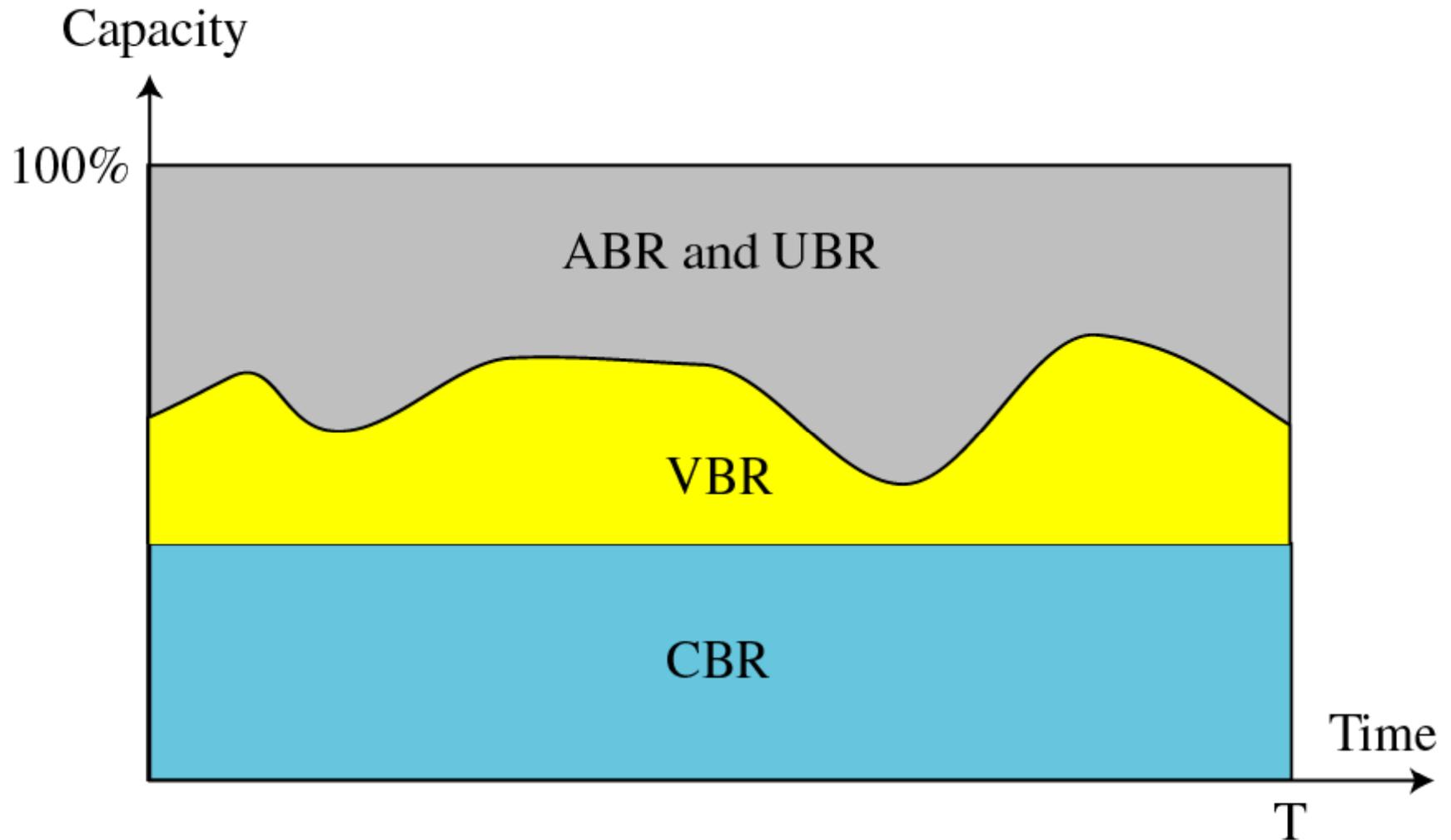


Figure 19-32

QoS

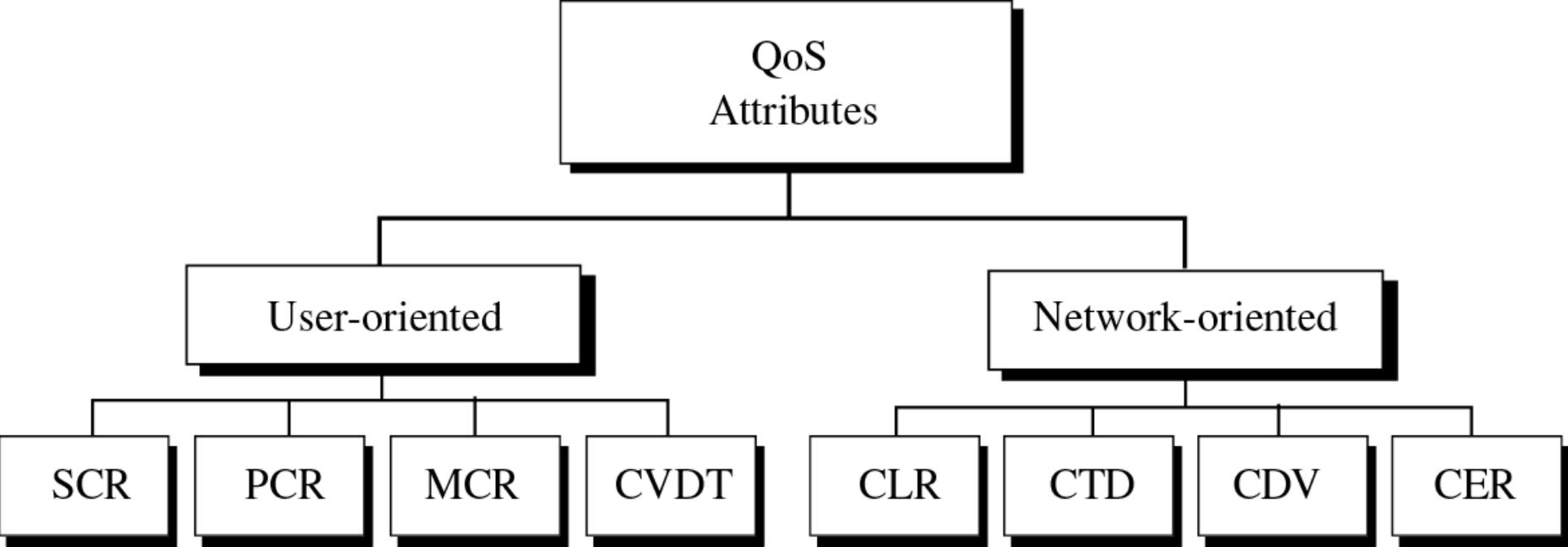


Figure 19-33

ATM WAN

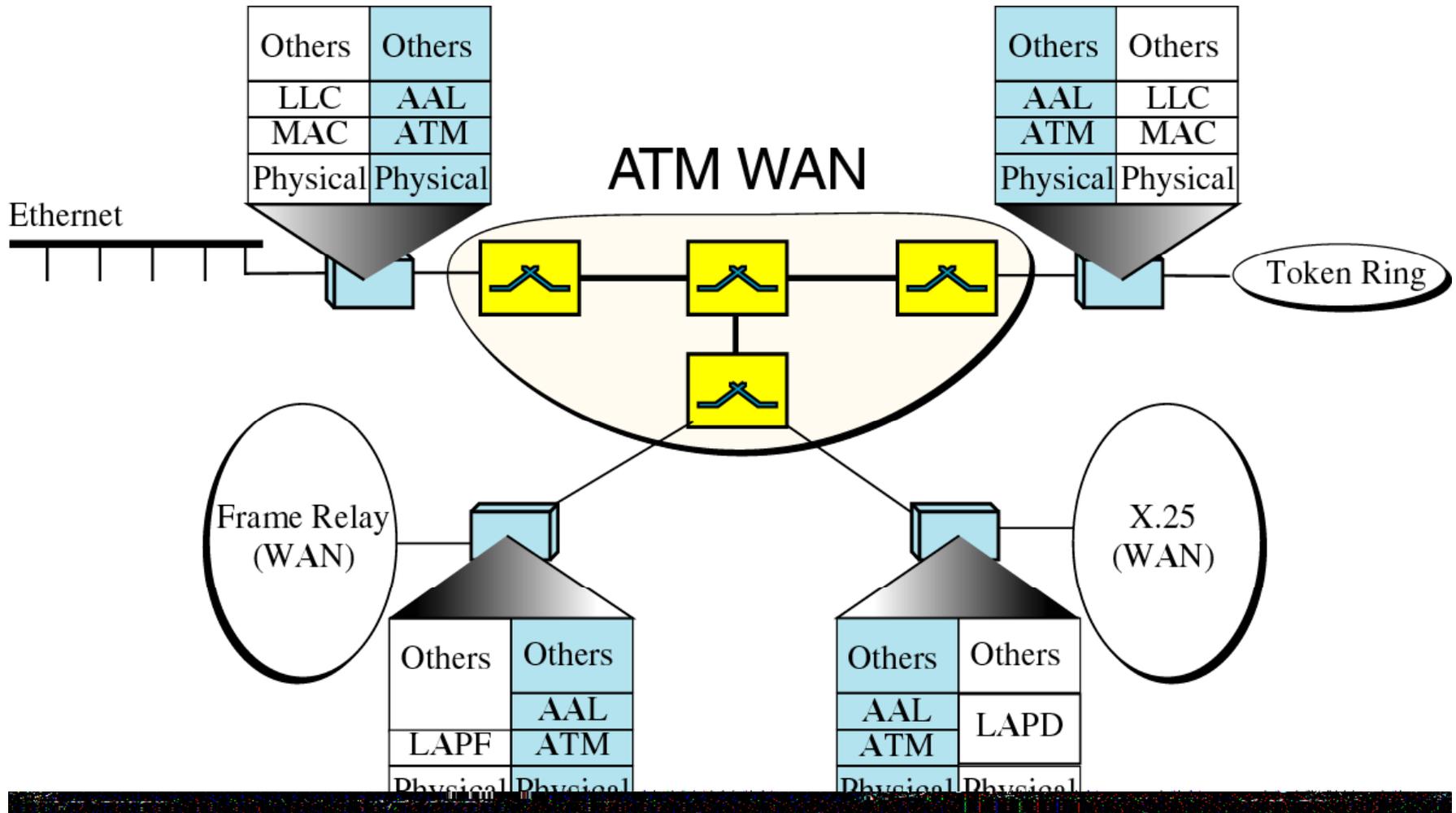


Figure 19-34

Ethernet Switch and ATM Switch

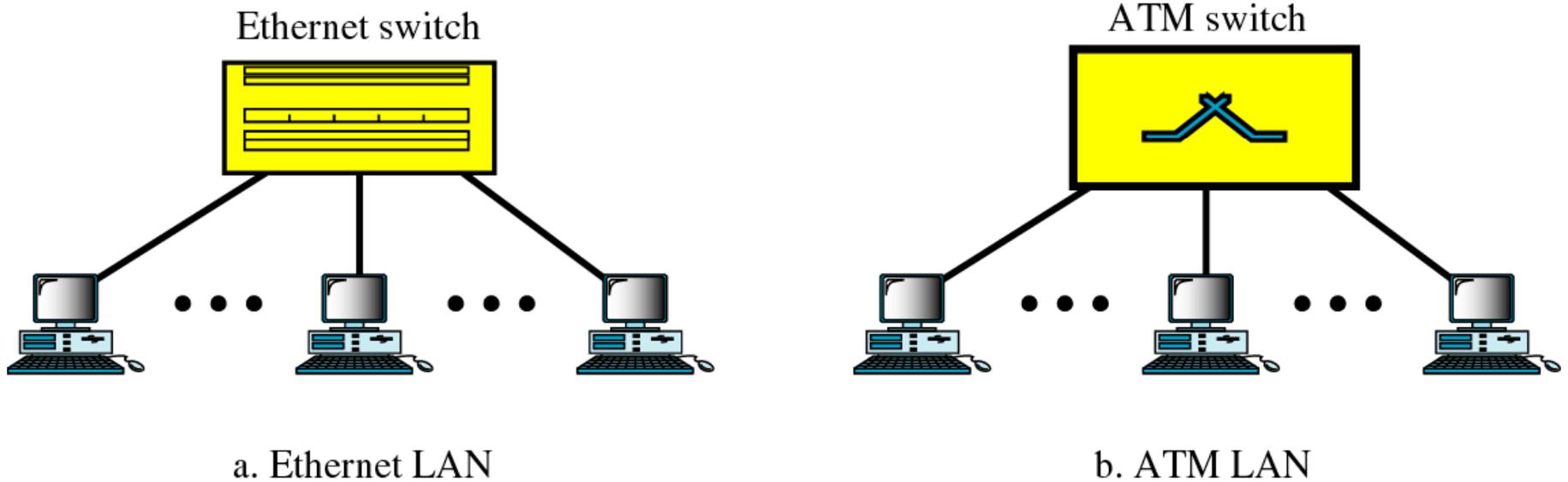


Figure 19-35

LANE Approach

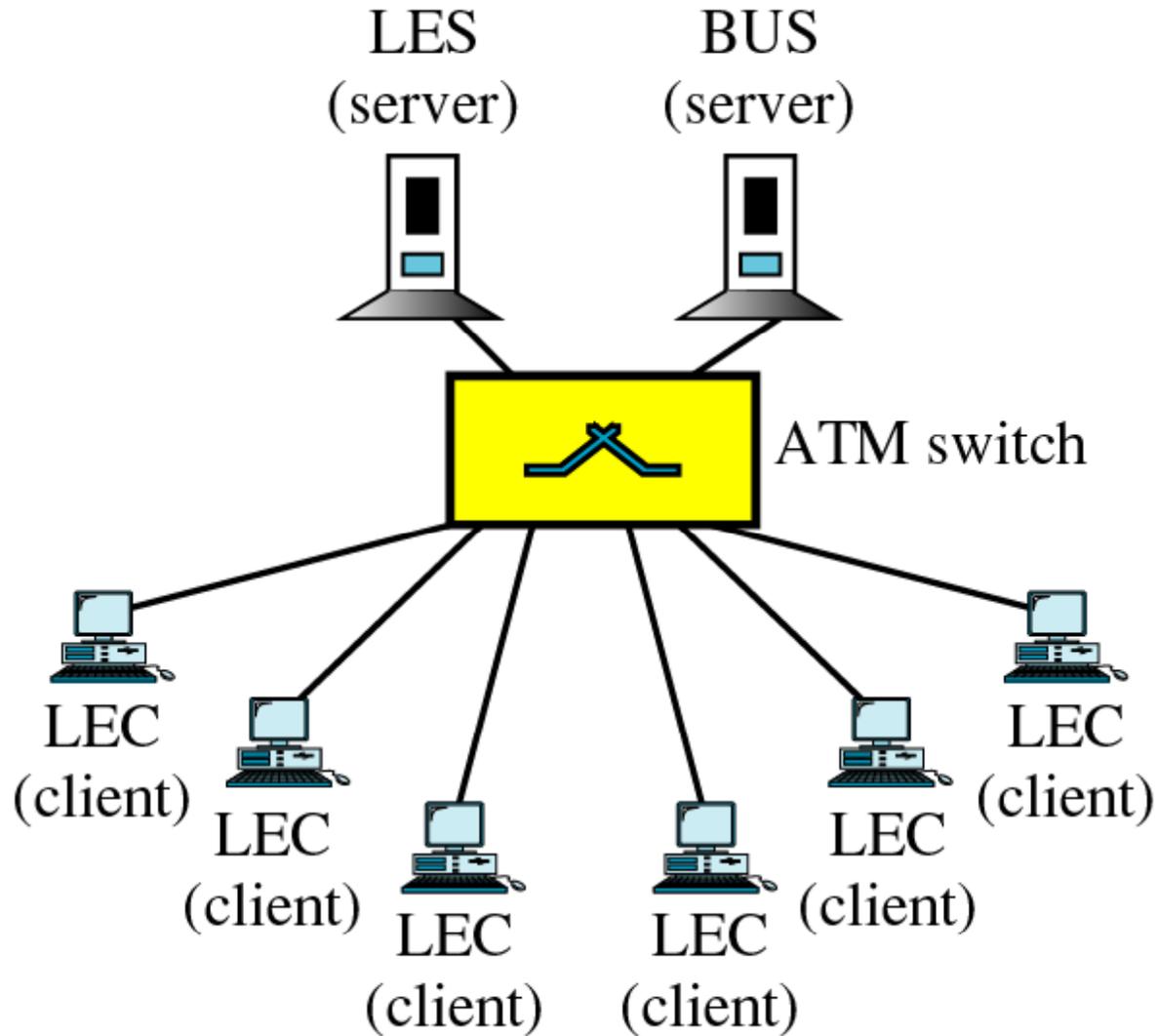


Figure 19-36

LEC, LES, and BUS

