

# Chapter 12

## Local Area Networks

- **Project 802**
- **Ethernet**
- **Token Ring**
- **FDDI**

Figure 12-1

# OSI Model and Project 802

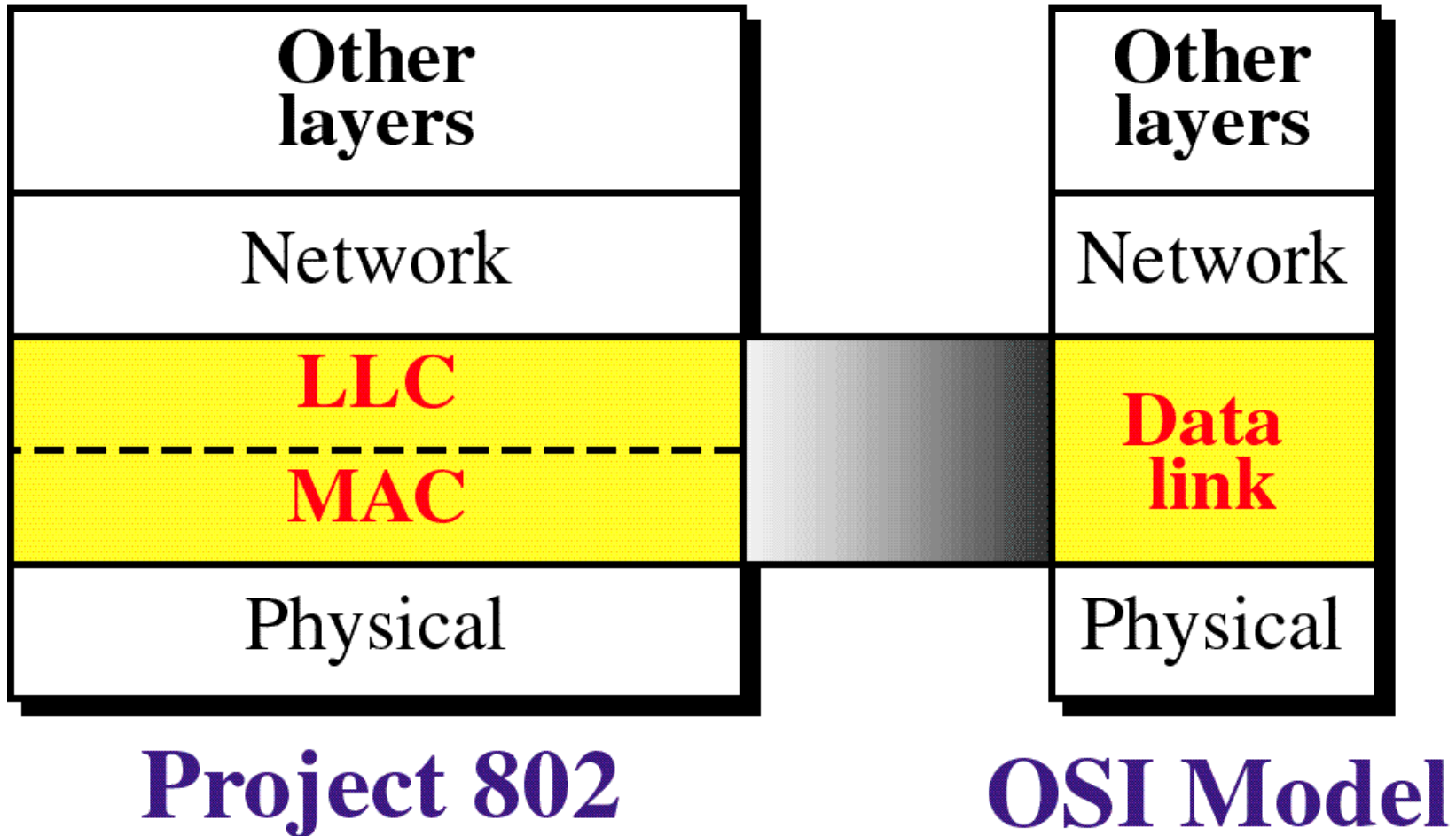
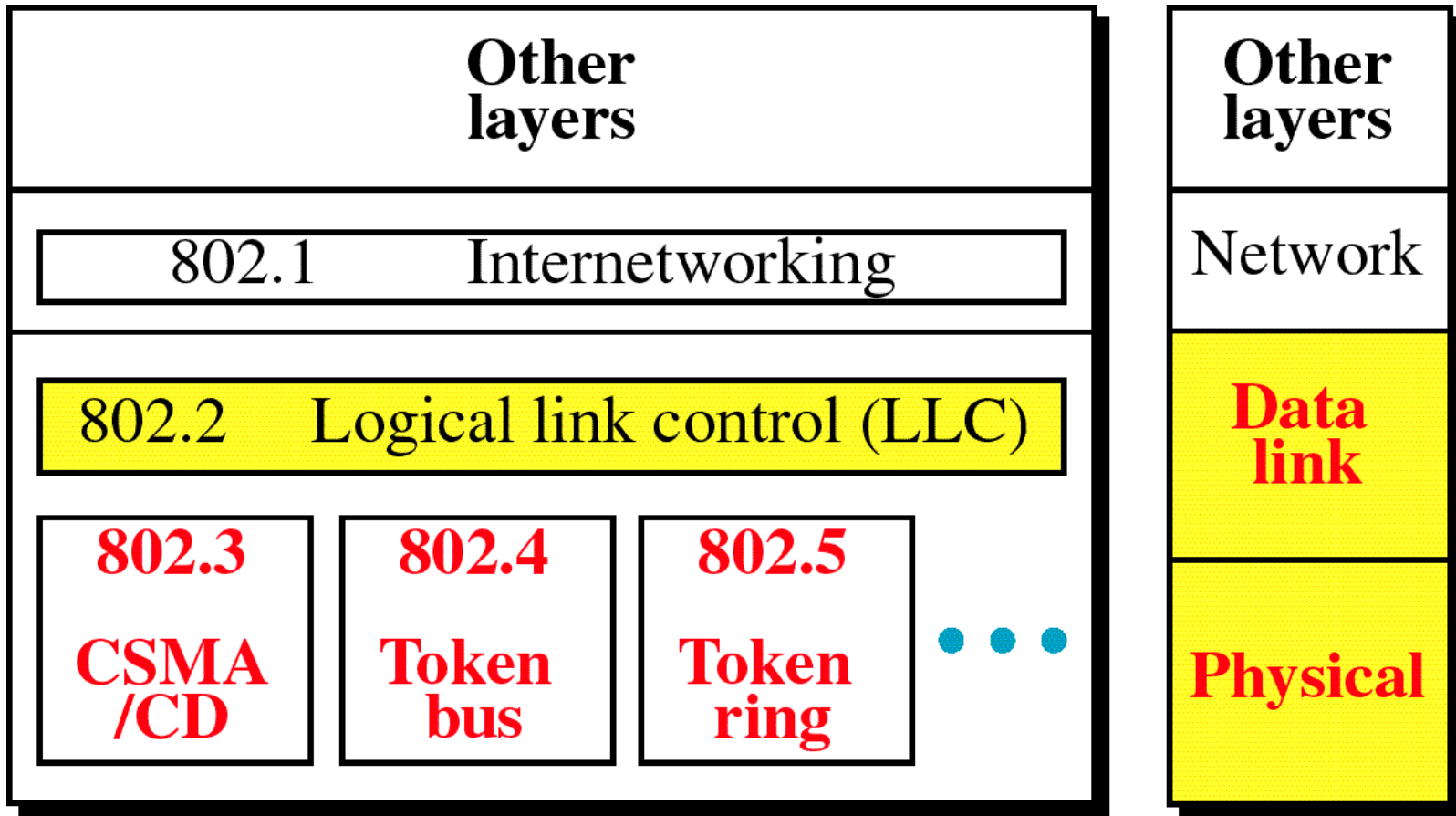


Figure 12-2

# Project 802



## Project 802

## OSI Model

Figure 12-3

# PDU Format

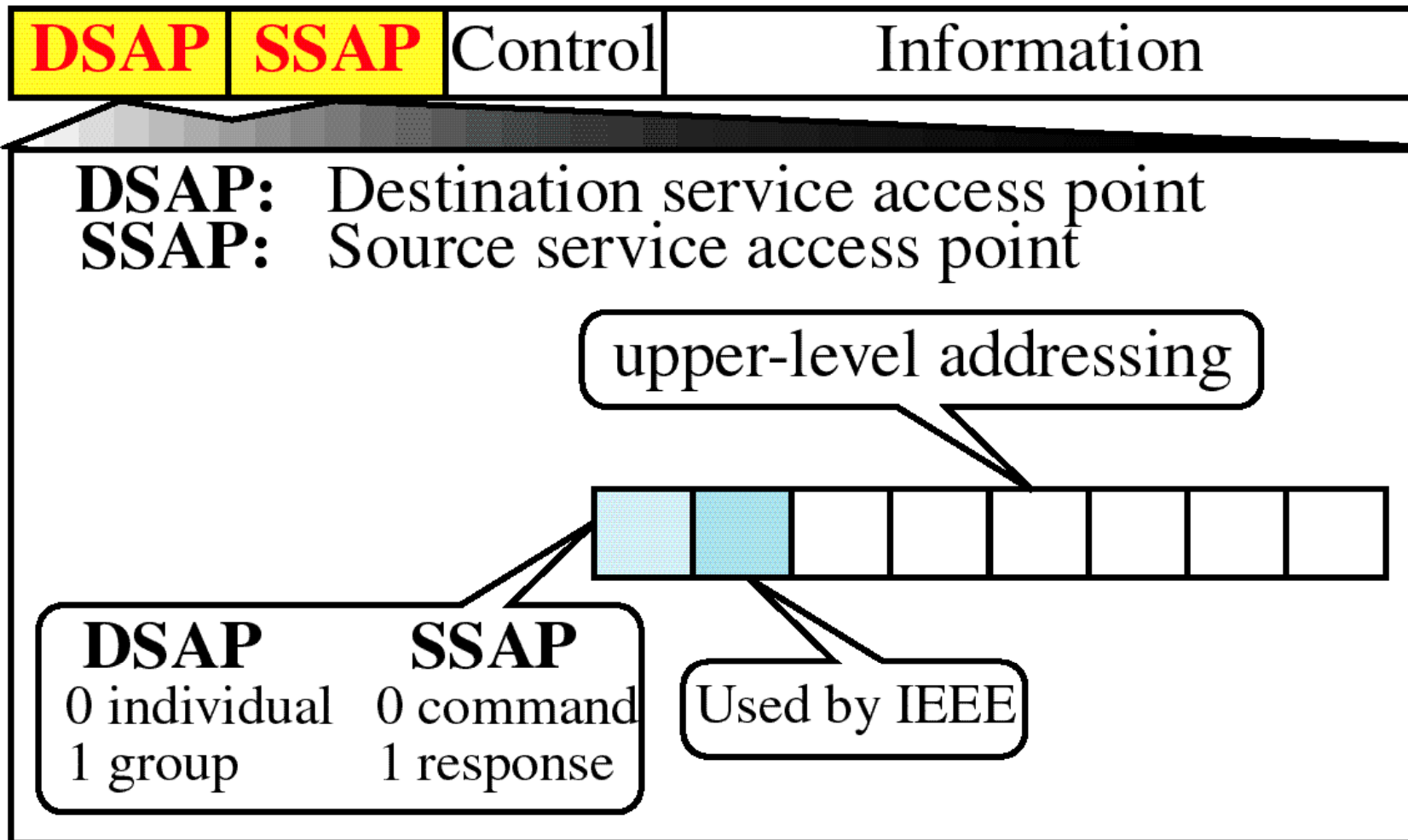
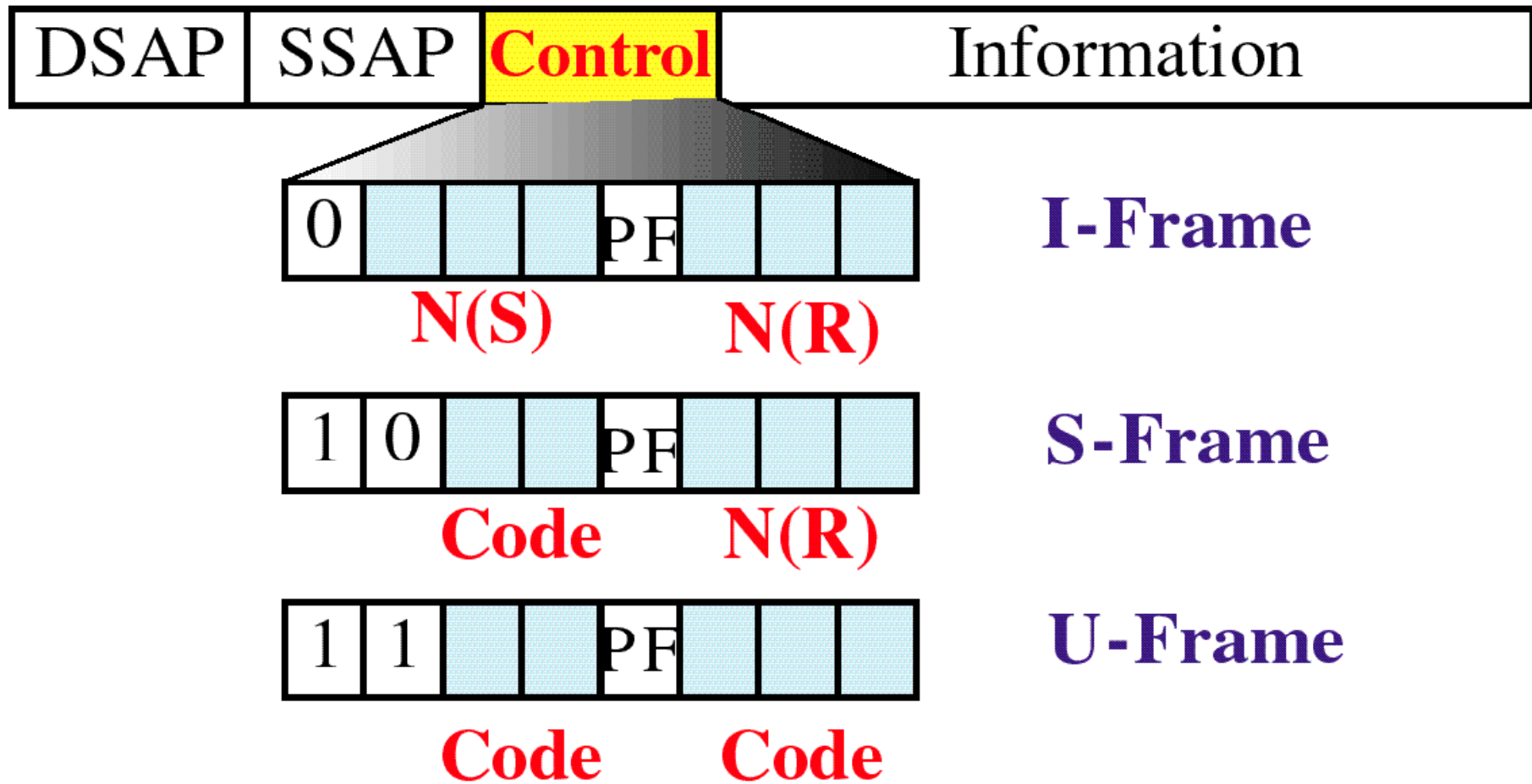


Figure 12-4

## PDU Control Field



## Ethernet evolution through four generations

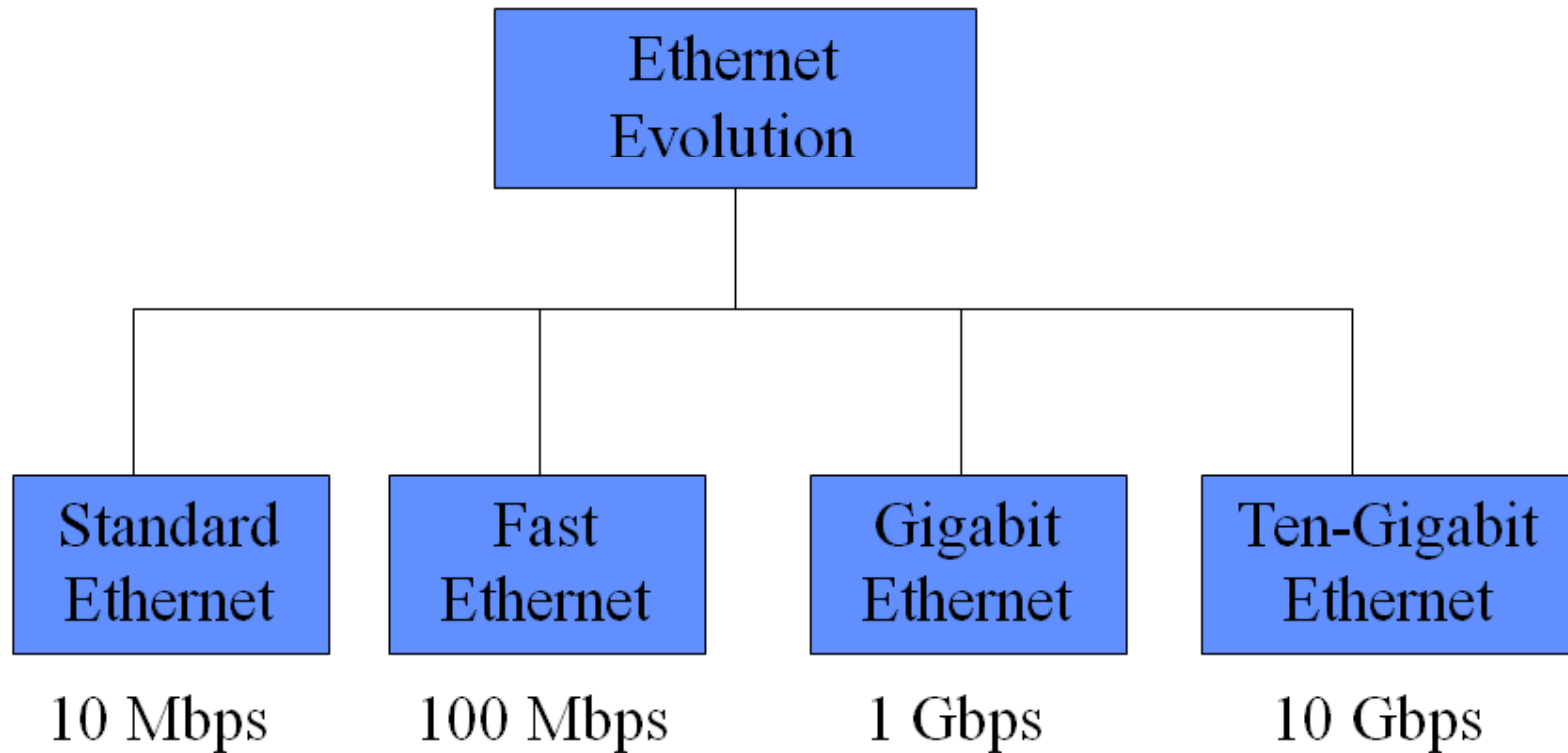


Figure 12-5

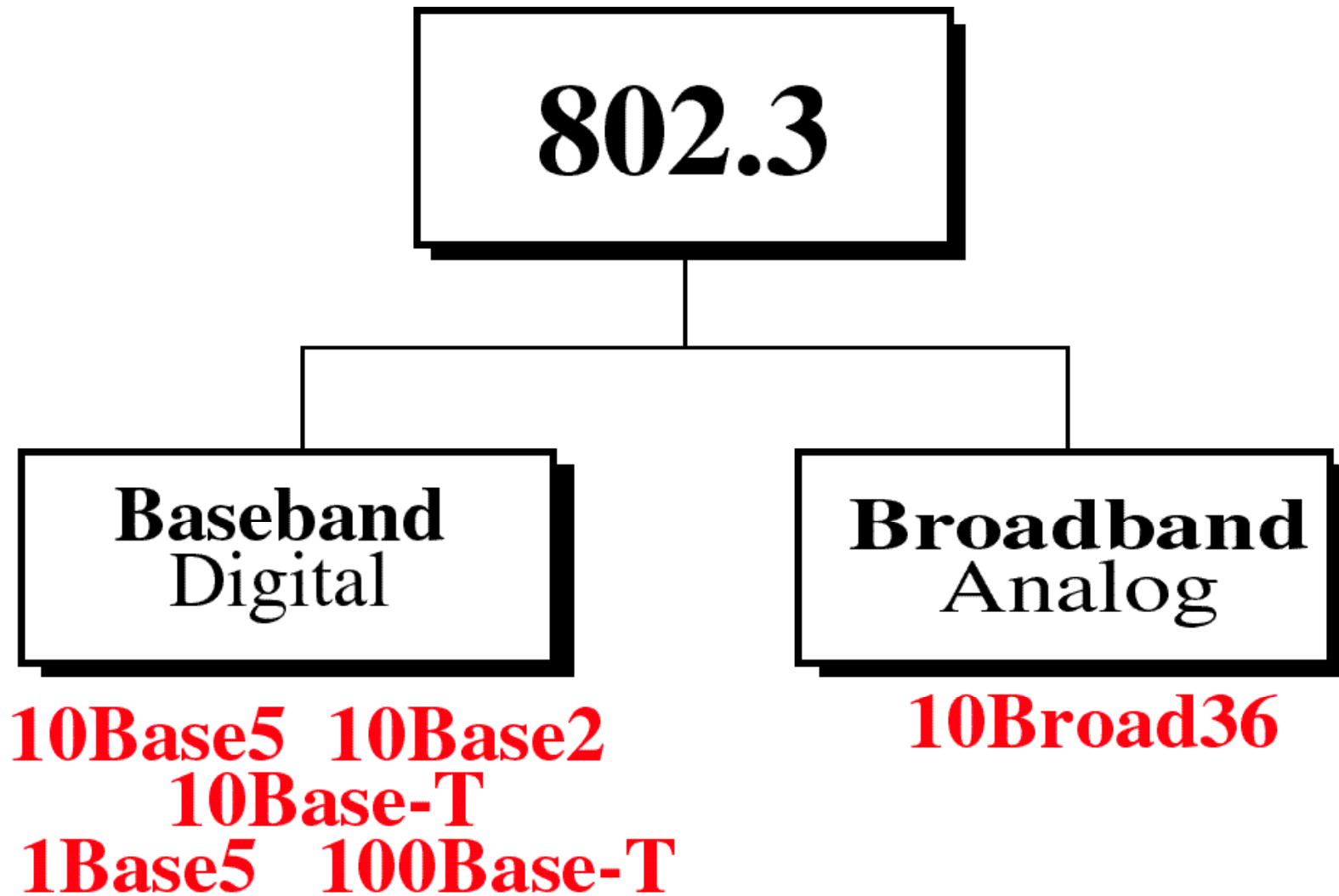


Figure 12-6

## Evolution of CSMA/CD

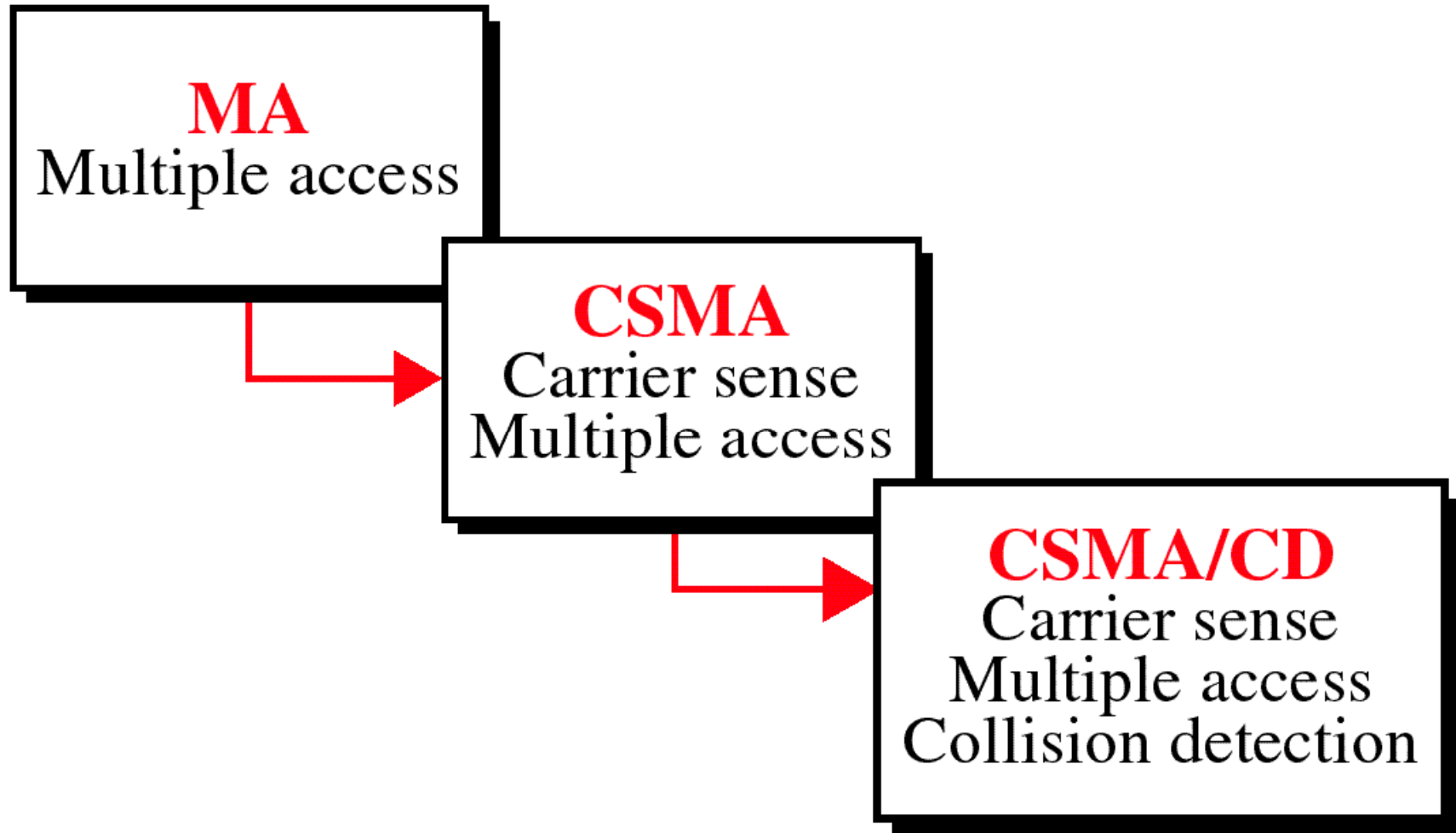




Figure 12-7

# MAC Frame

Media Access Control

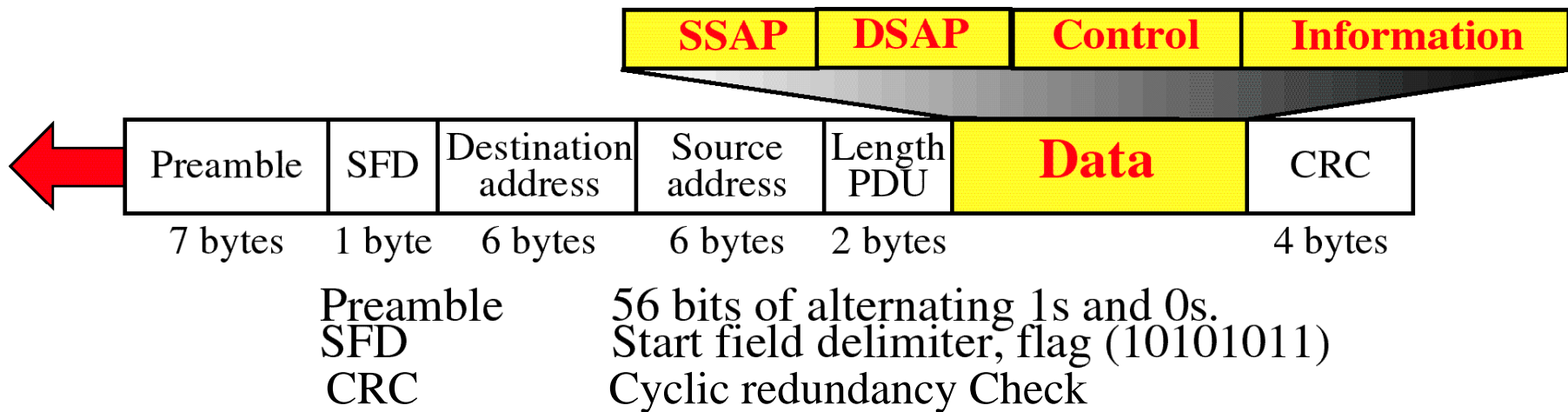


Figure 12-8

# Ethernet Segments

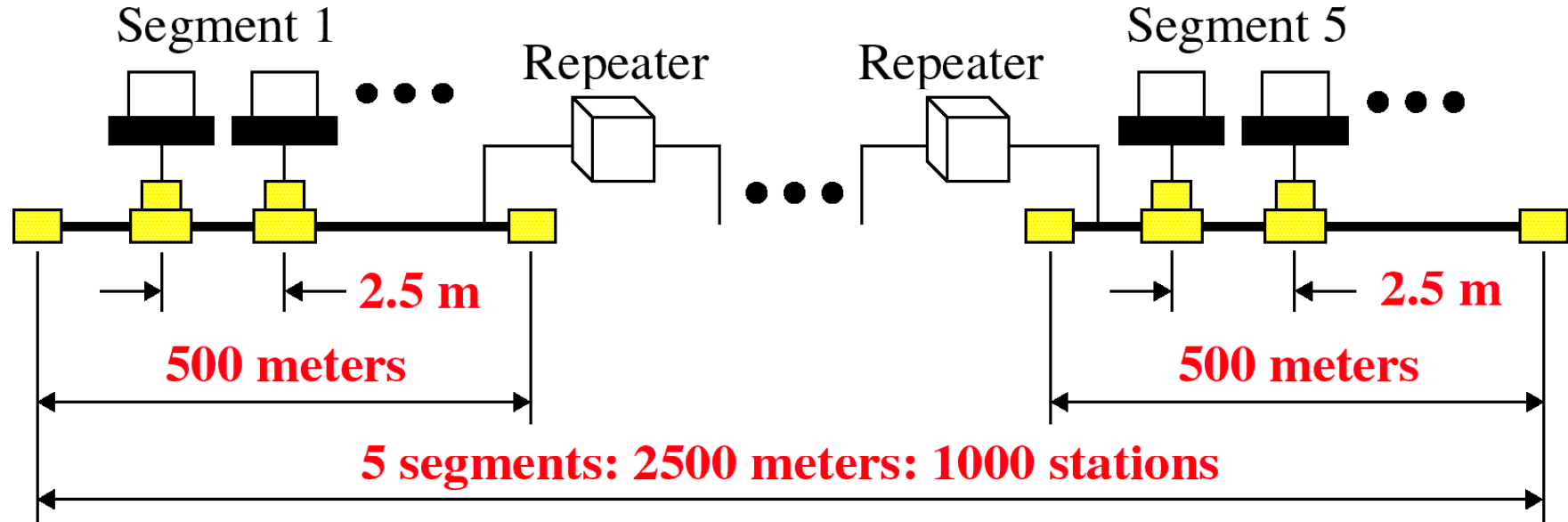


Figure 12-9

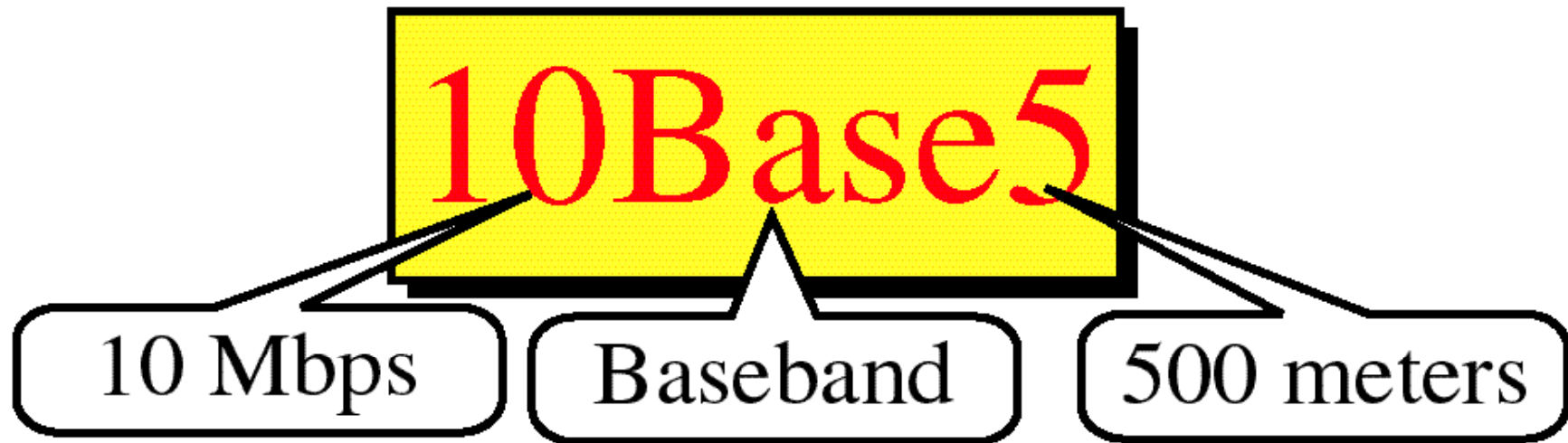


Figure 12-9-continued

# 10BASE5

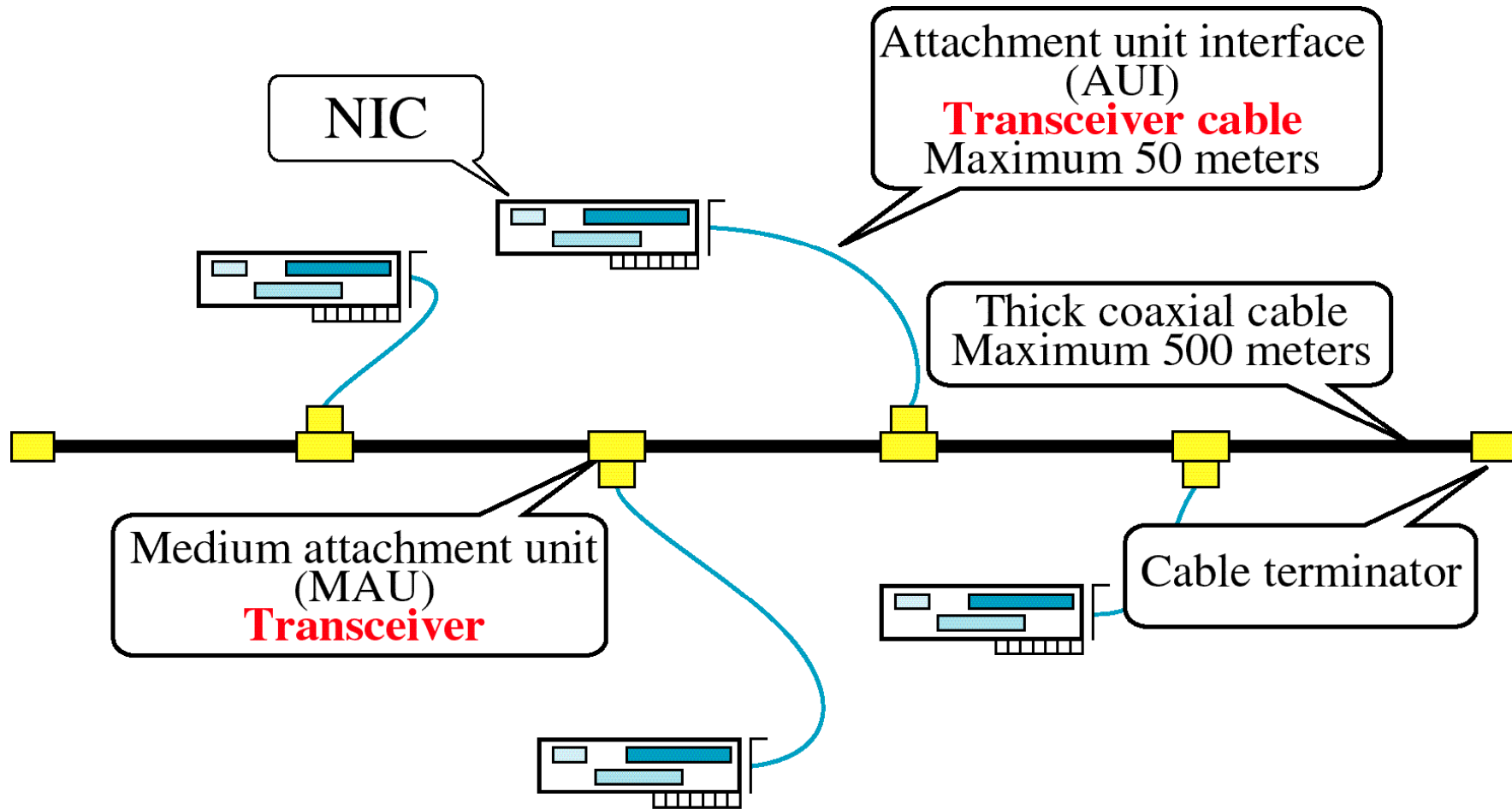


Figure 12-10

# Transceiver

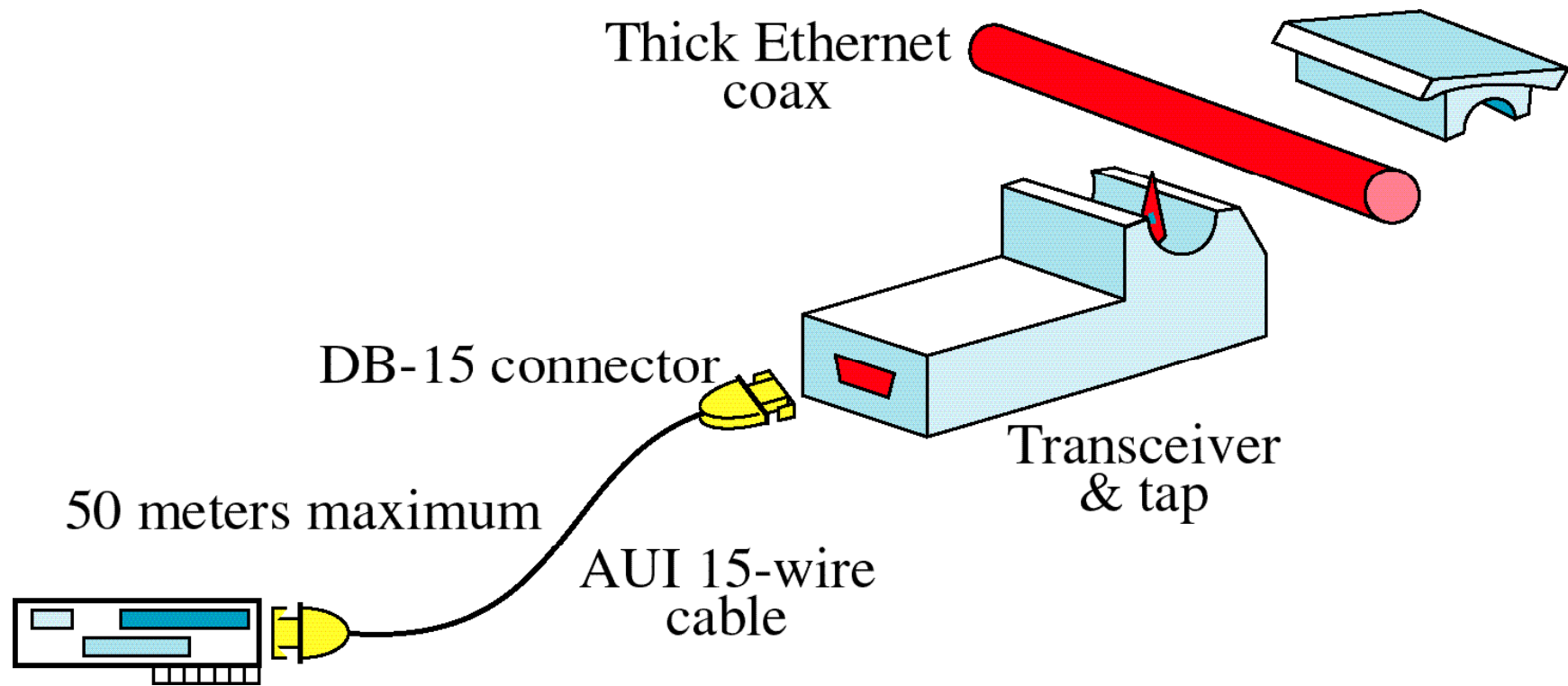


Figure 12-11

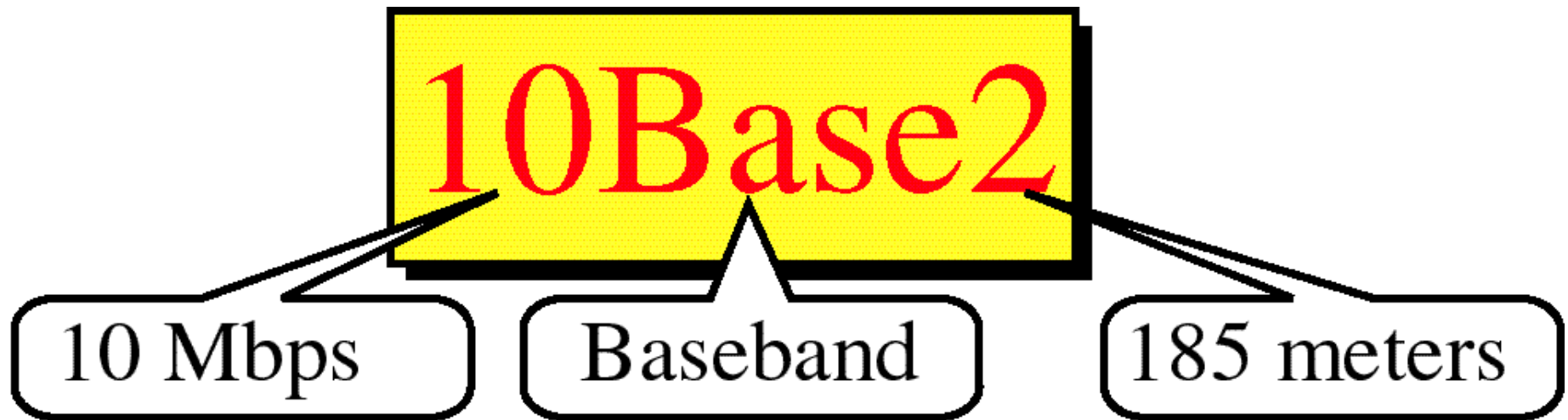


Figure 12-11-continued

# 10BASE2

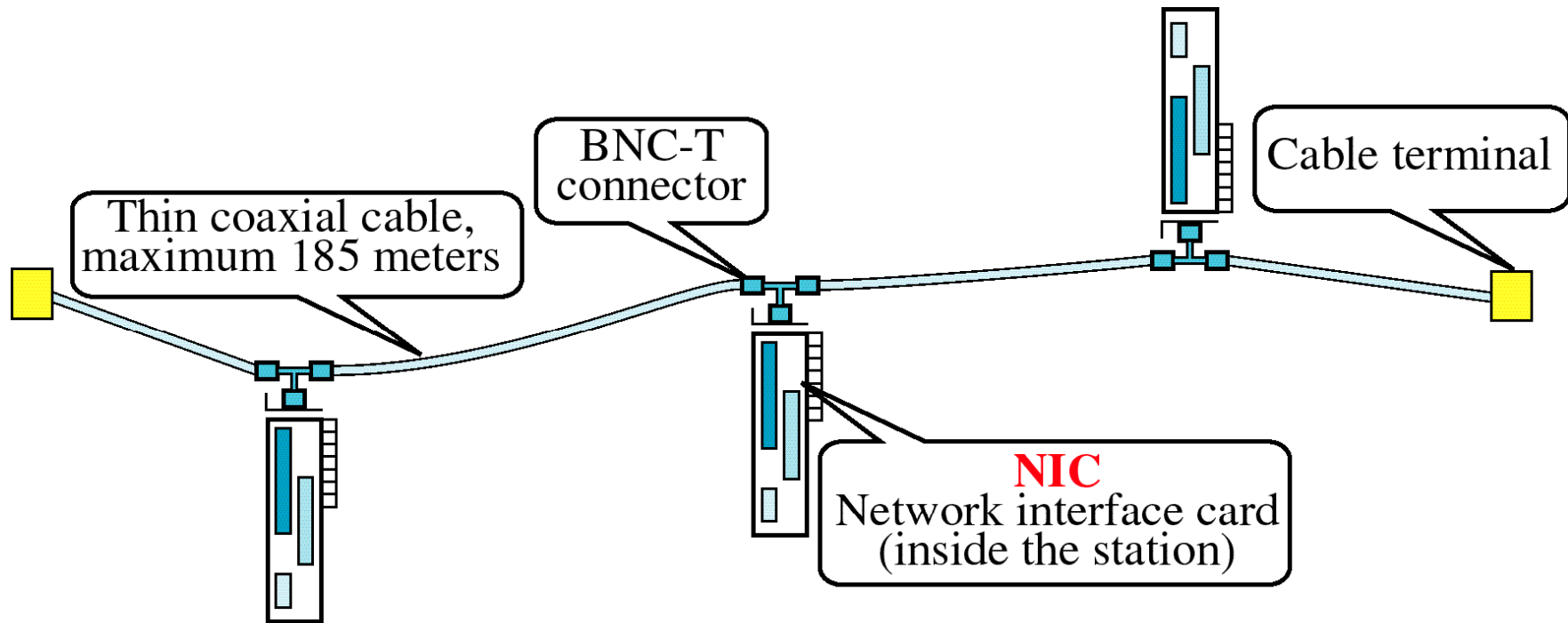


Figure 12-12

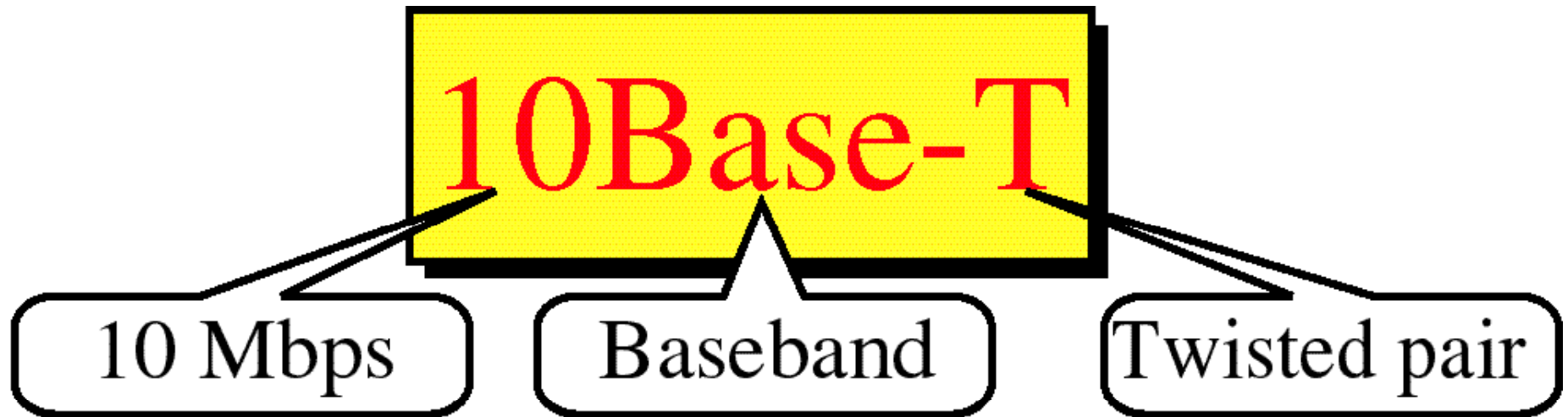




Figure 12-12-continued

# 10BASET : Twisted-Pair Ethernet

Maximum Length 100m

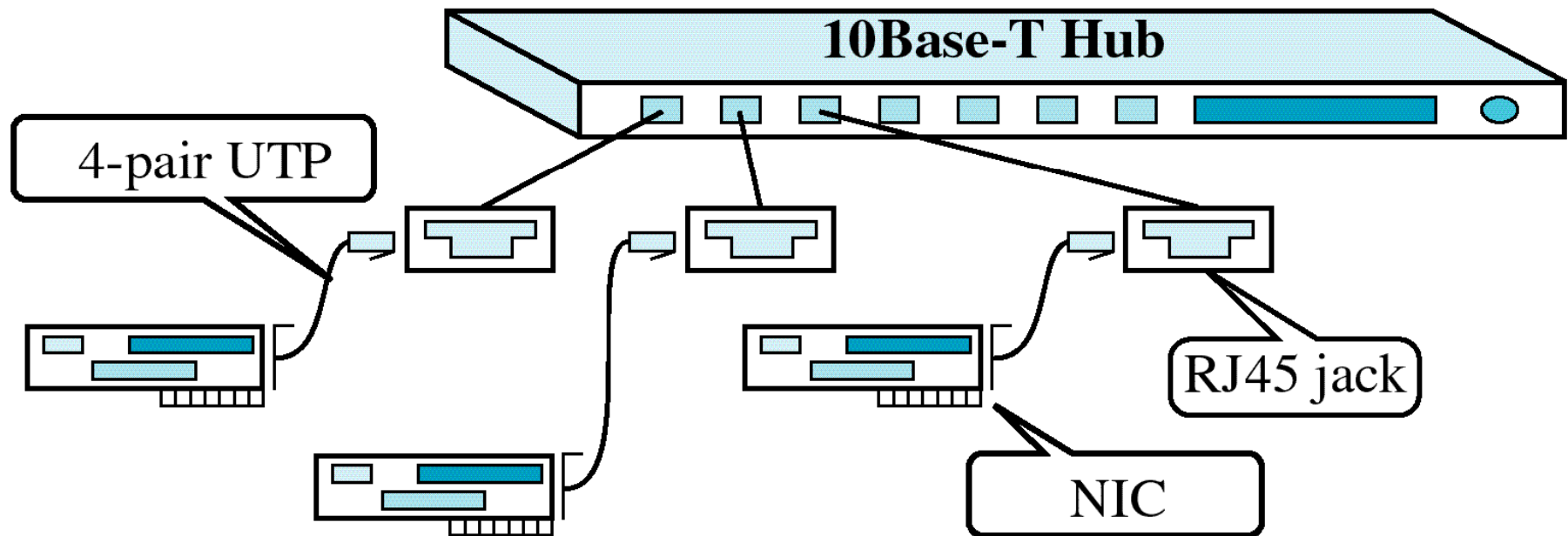


Figure 12-13

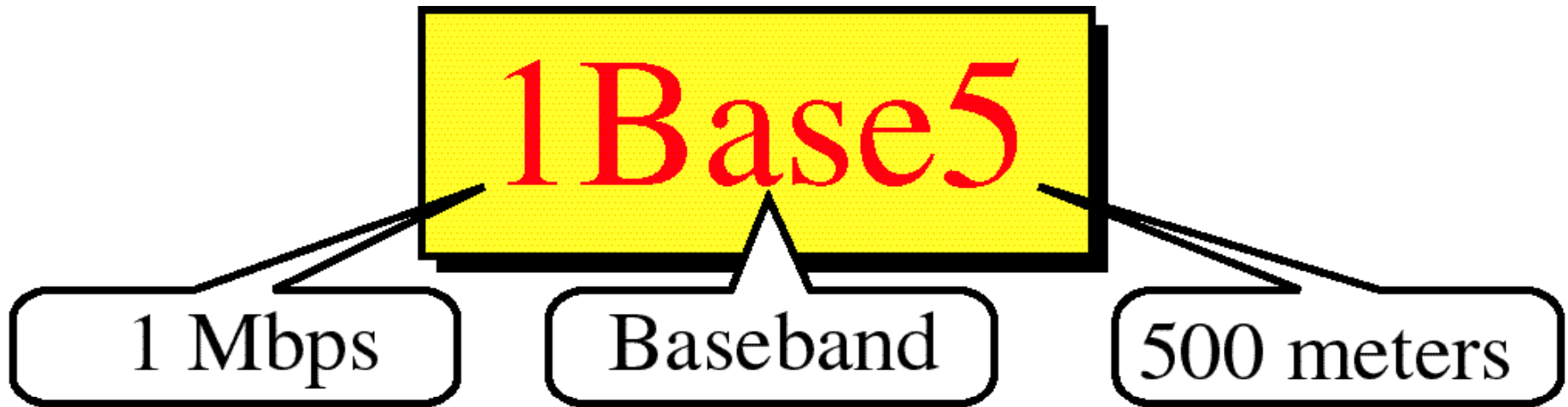
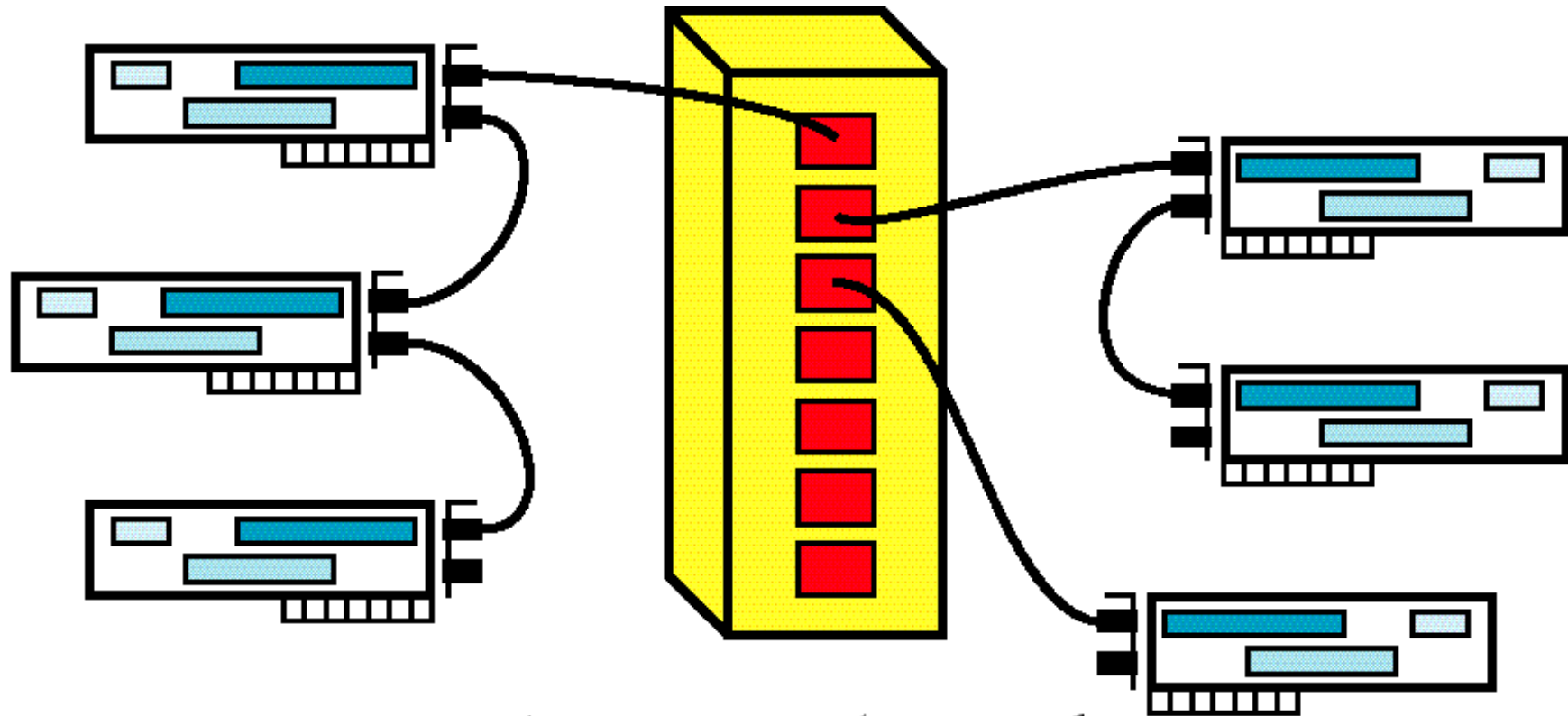


Figure 12-13-continued

# 1BASE5



## 1Base5 Hub

Figure 12-14

UTP: Un shielded Twisted Pair  
STP: Shielded Twisted Pair

