

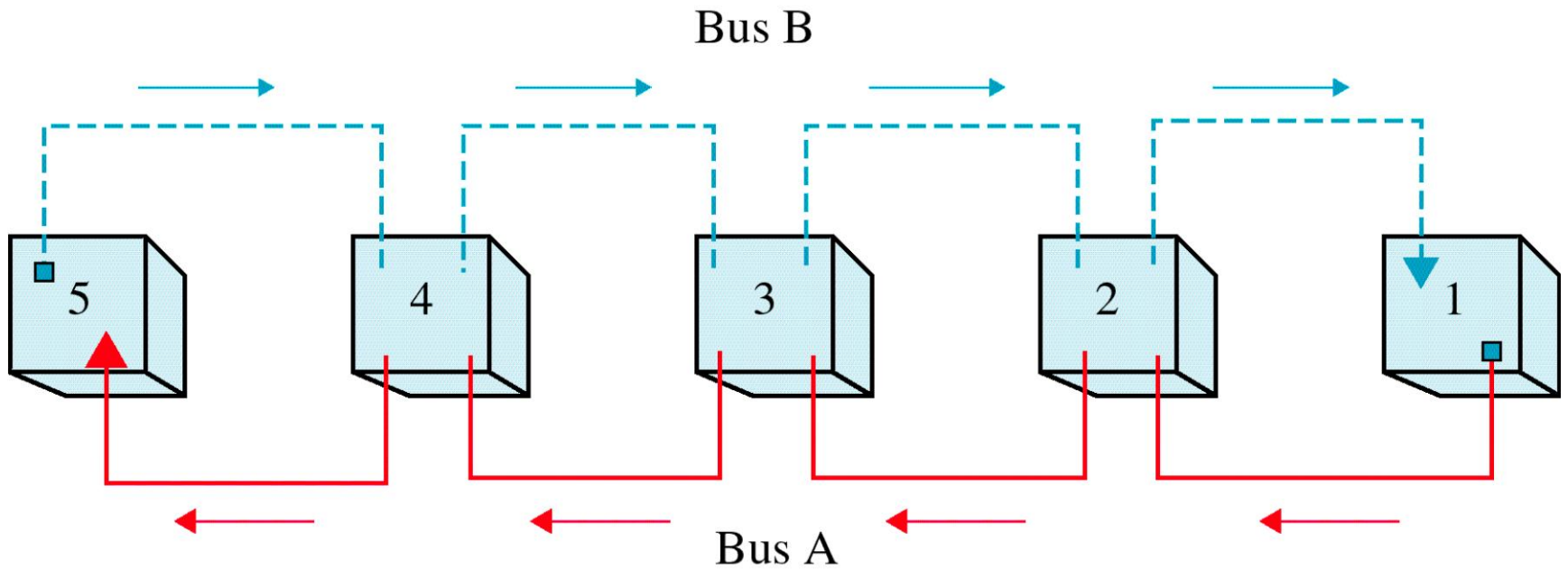
# Metropolitan Area Networks

- **IEEE 802.6**
- **DQDB (Distributed Queues, Dual Bus)**

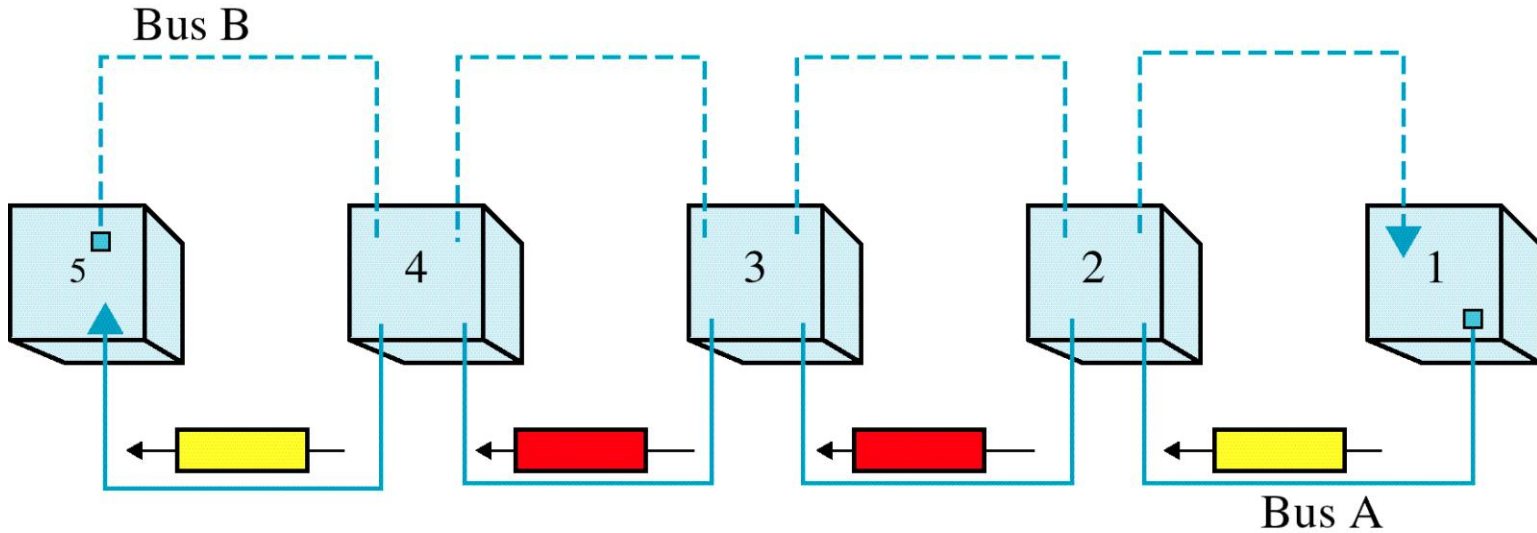
## IEEE- 802.6 (DQDB)

- Access Method: Dual Bas
- Directional Traffic
- Upstream and Downstream Station
- Transmission Slots
- Distributed Queue
- Ring Configuration
- Operation : DQDB Layers

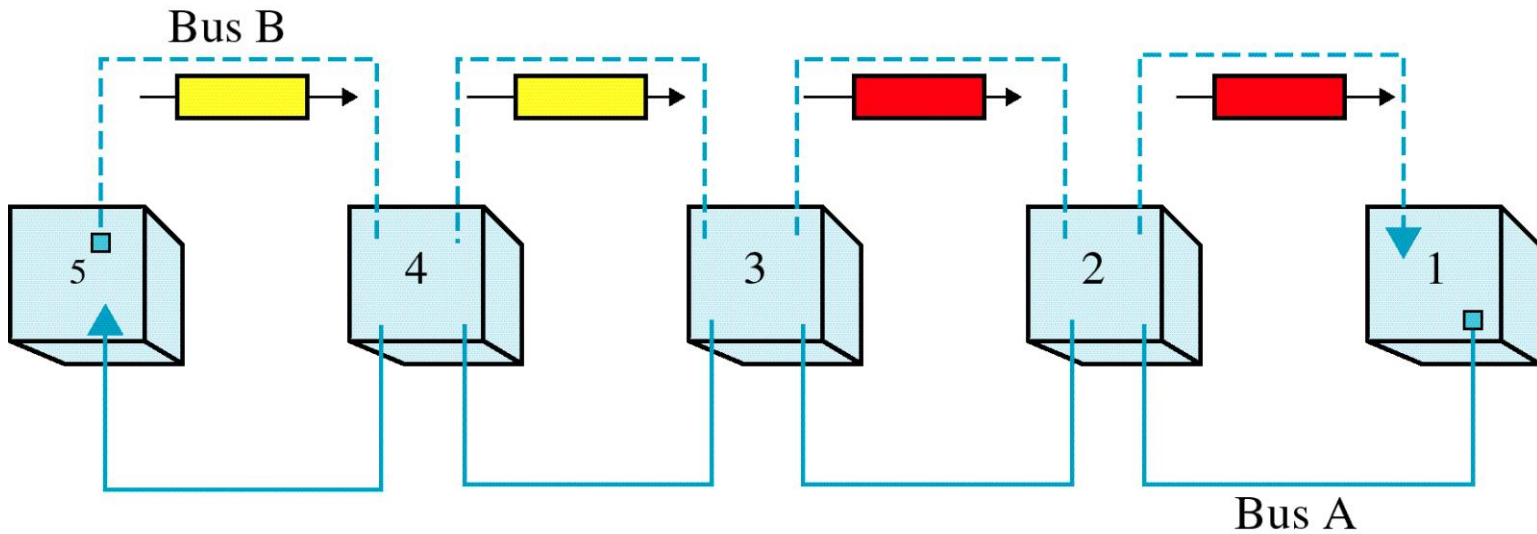
# DQDB Buses and Nodes



# DQDB Data Transmission

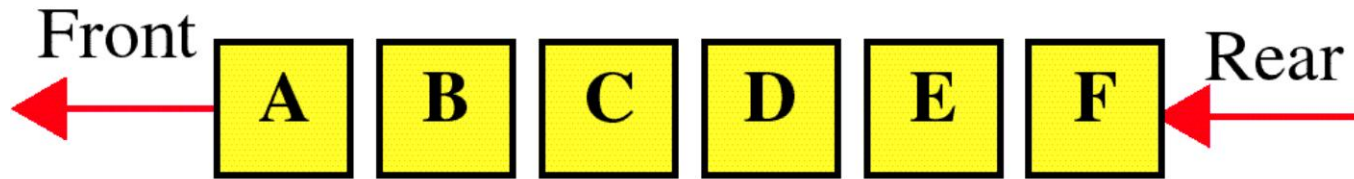


a. Station 2 sends data to station 4.



b. Station 3 sends data to station 1.

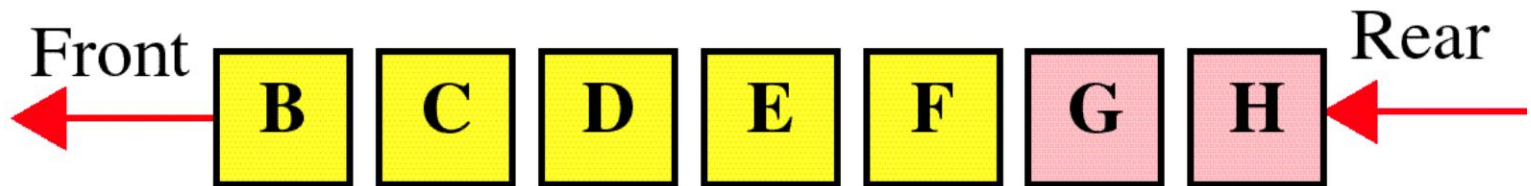
# Queues



a. A queue with 5 elements.

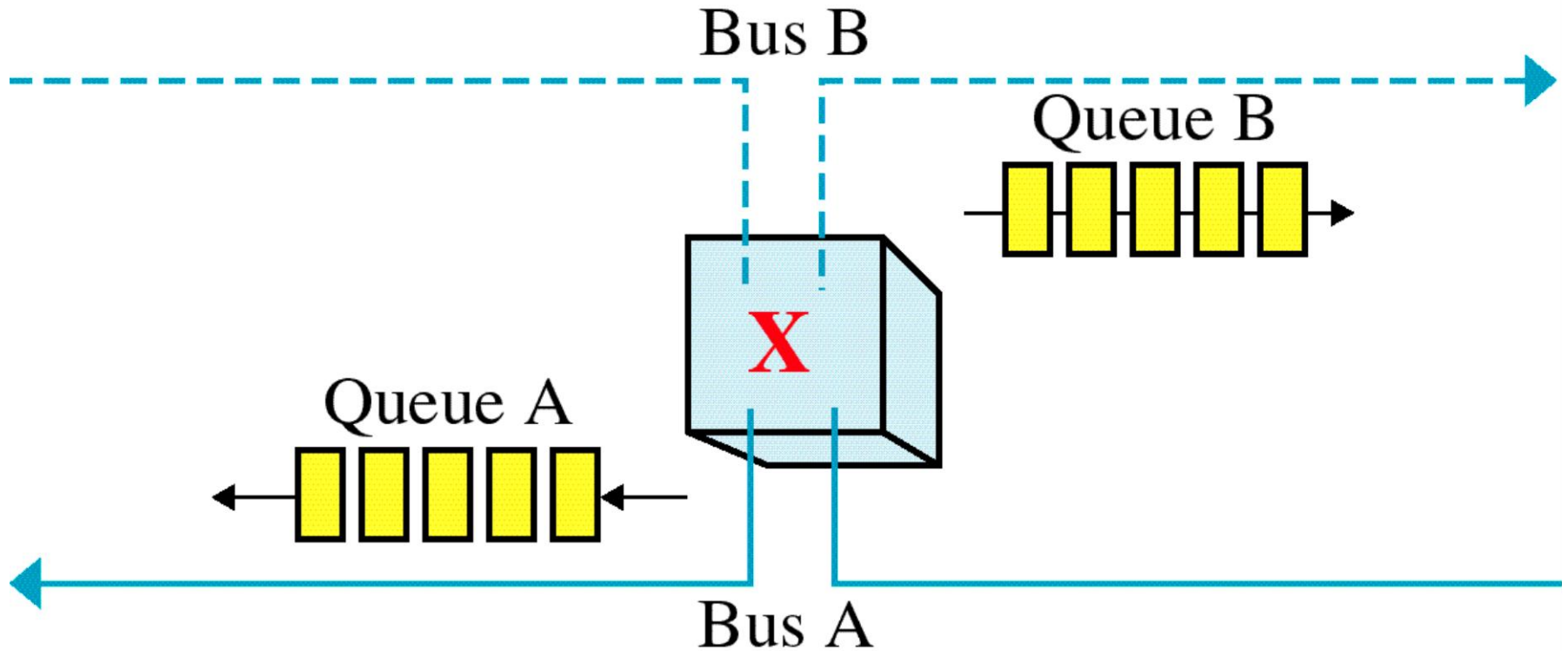


b. After removing first element

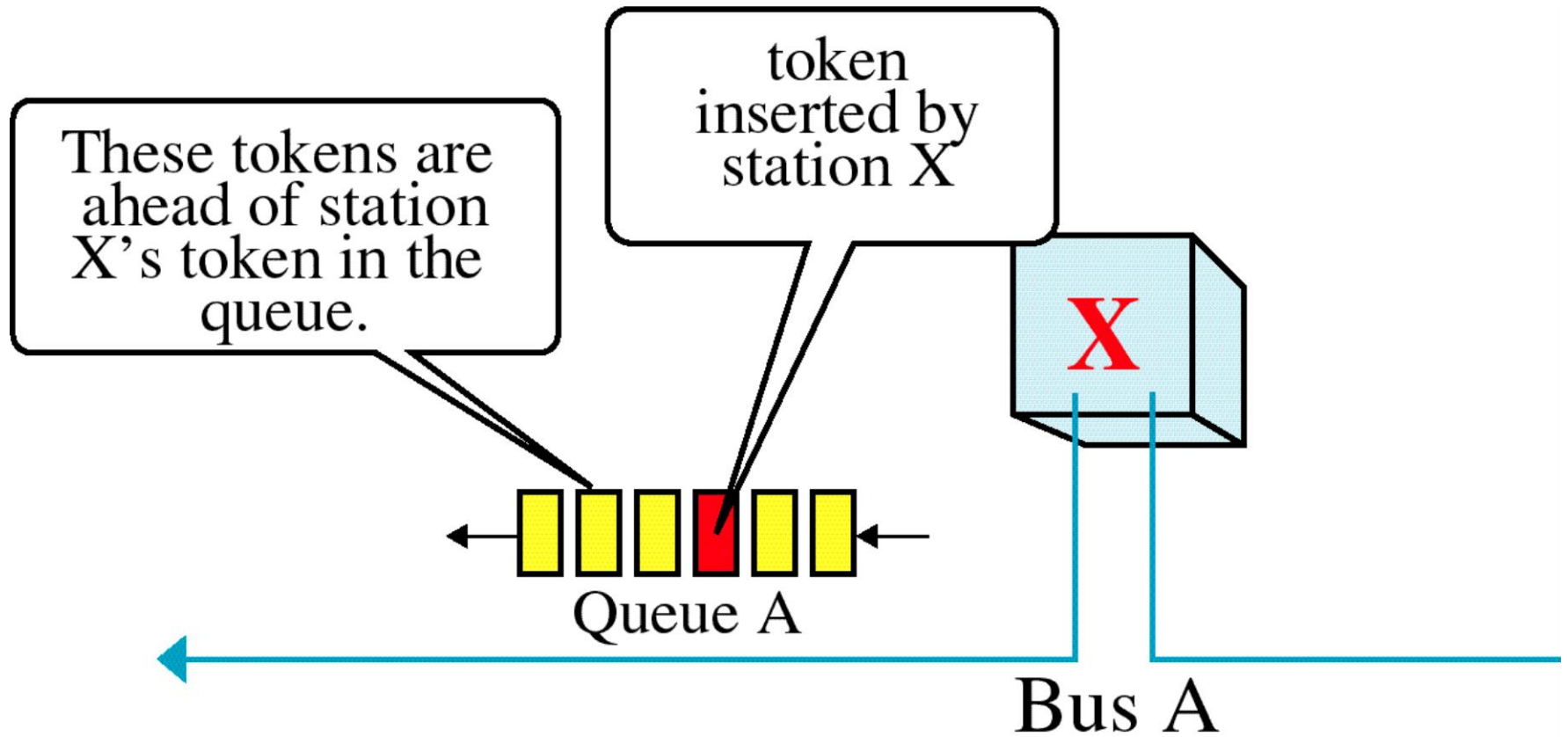


c. After inserting two elements

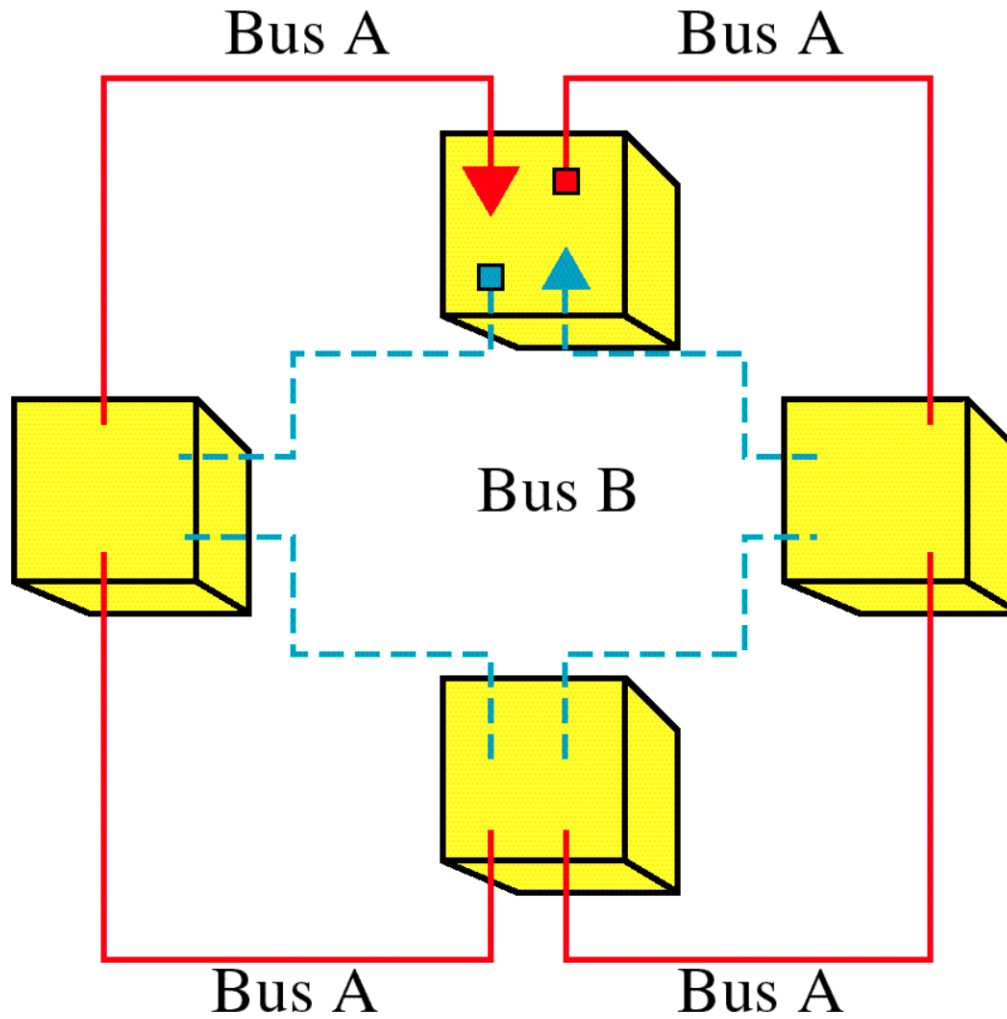
# Distributed Queues



# Reservation Token



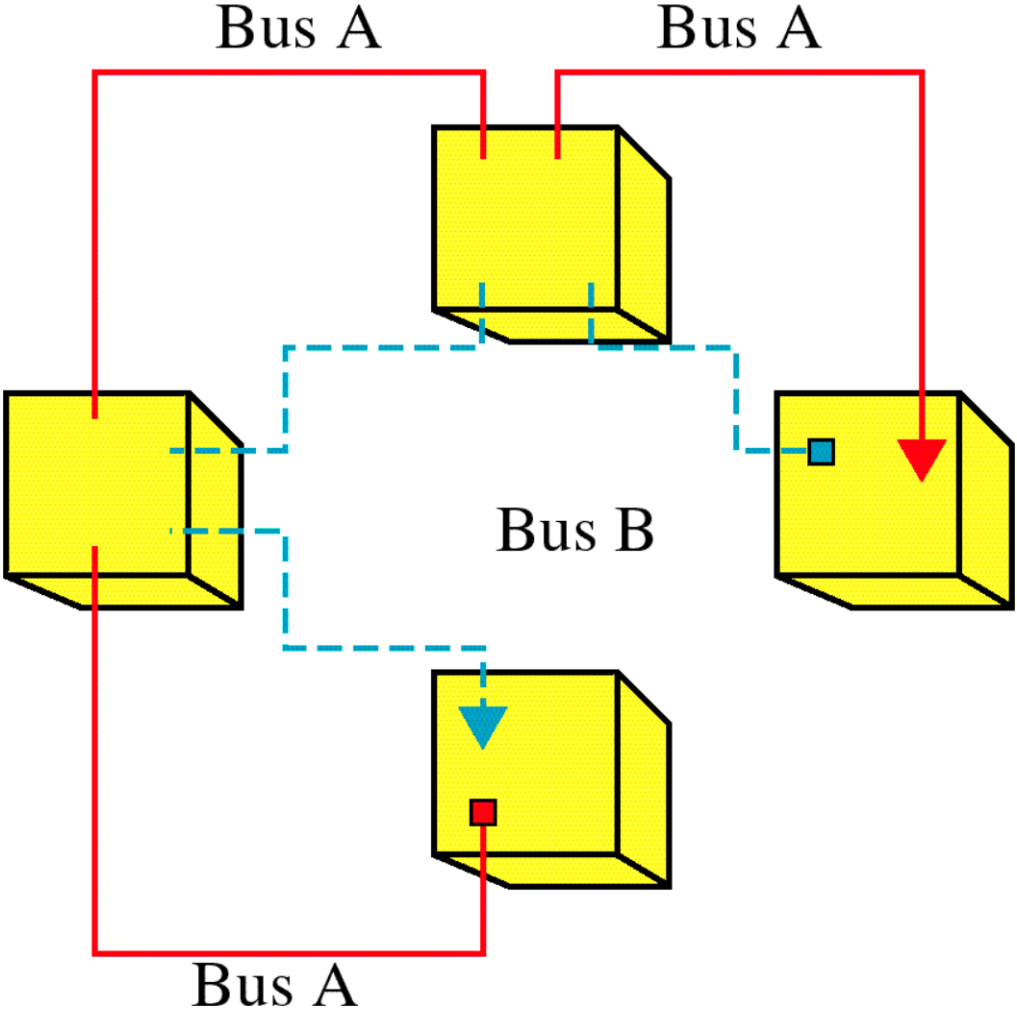
# DQDB Rings



a. Ring without failure.

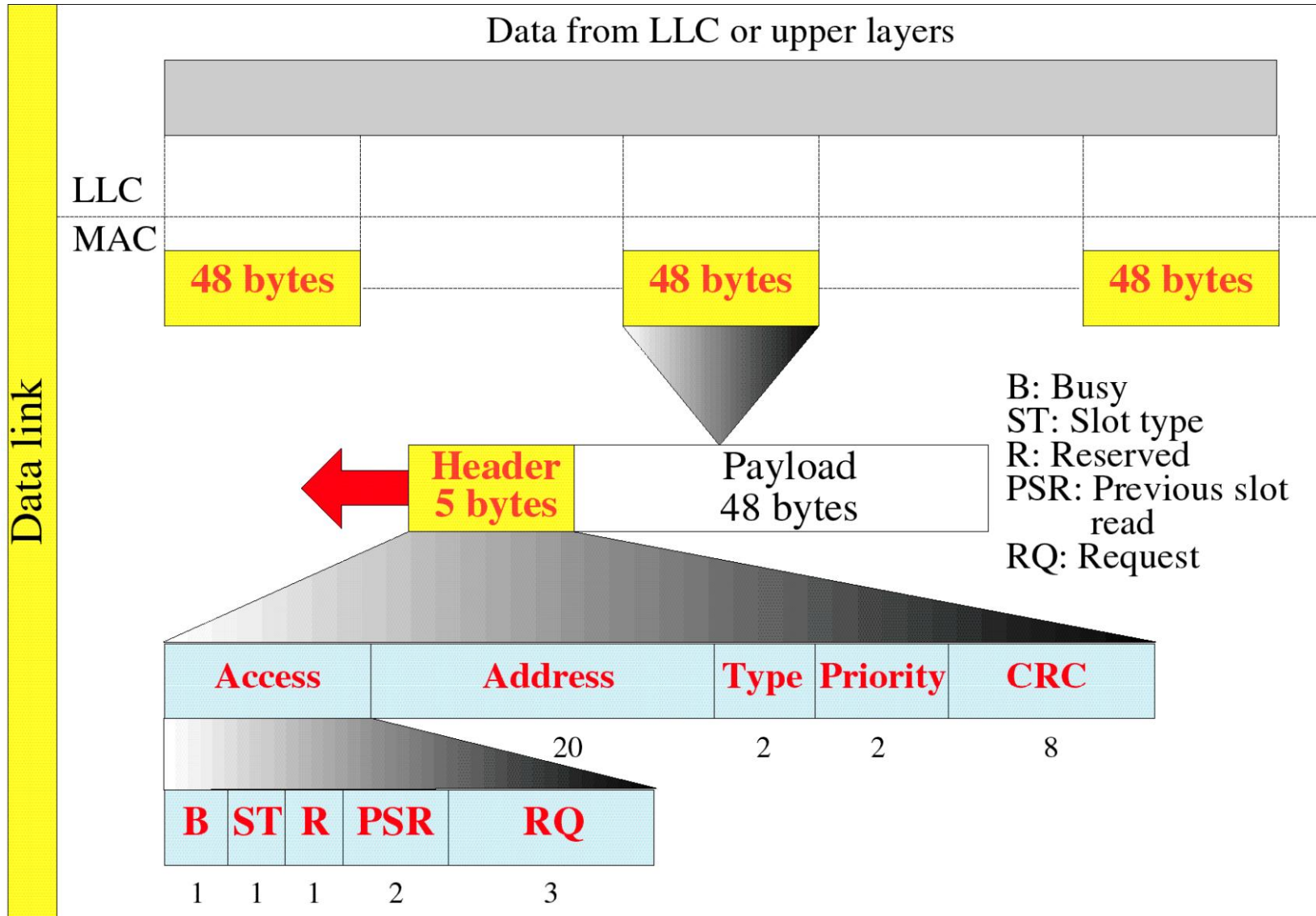


# DQDB Rings



b. Ring with failure.

# DQDB Layers



**DRONACHARYA COLLEGE OF ENGINEERING, GURGAON**  
**Computer Science & Engineering**  
**Assignment**

**Semester- VI (I & II)**

**Branch: CSE**

Subject with Code: Computer Networks (IT-305-F)

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- Q:1 What are Aloha and Slotted Aloha? Why they are required ?*
- Q:2 What is Frame Relay? Explain SONET/SDH in detail.*