

CSMA



By

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CSMA

- ✓ Before sending, sense the carrier

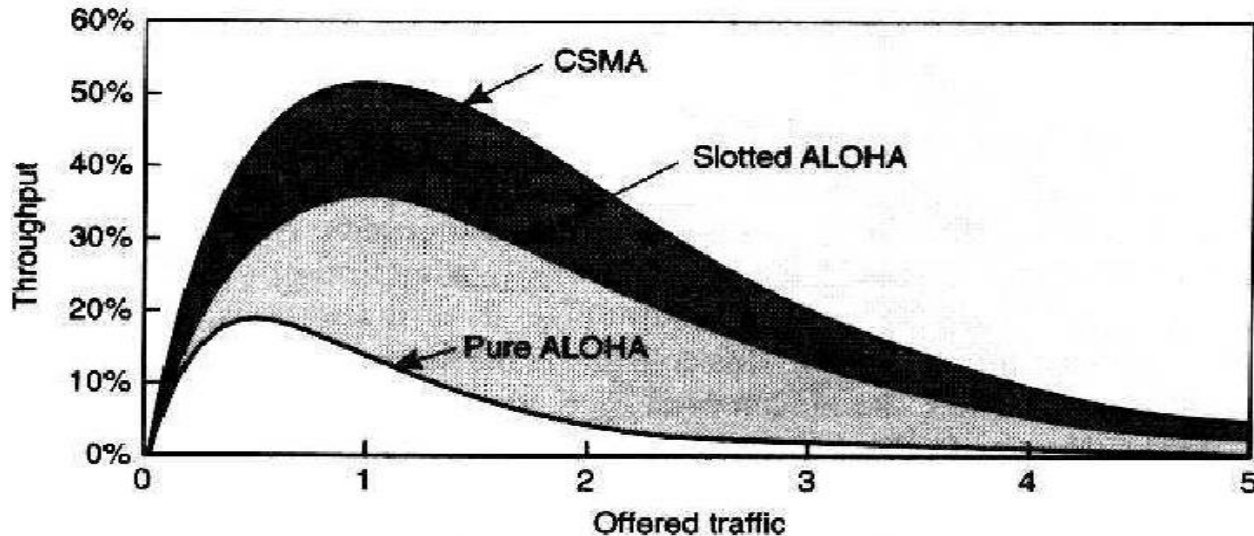
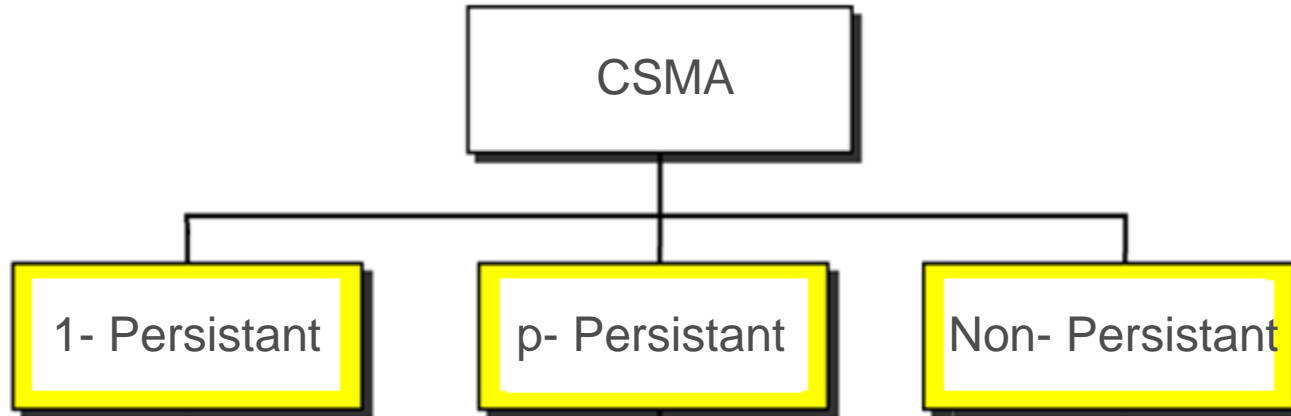
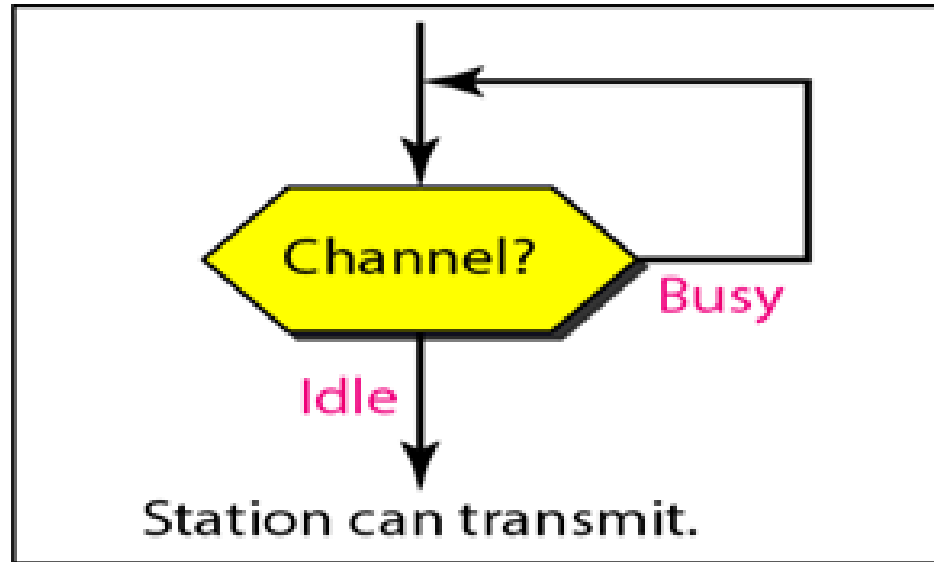


Figure 4.13 Performance of CSMA.

CSMA - Categories



Behavior of 1- Persistent CSMA



1-persistent

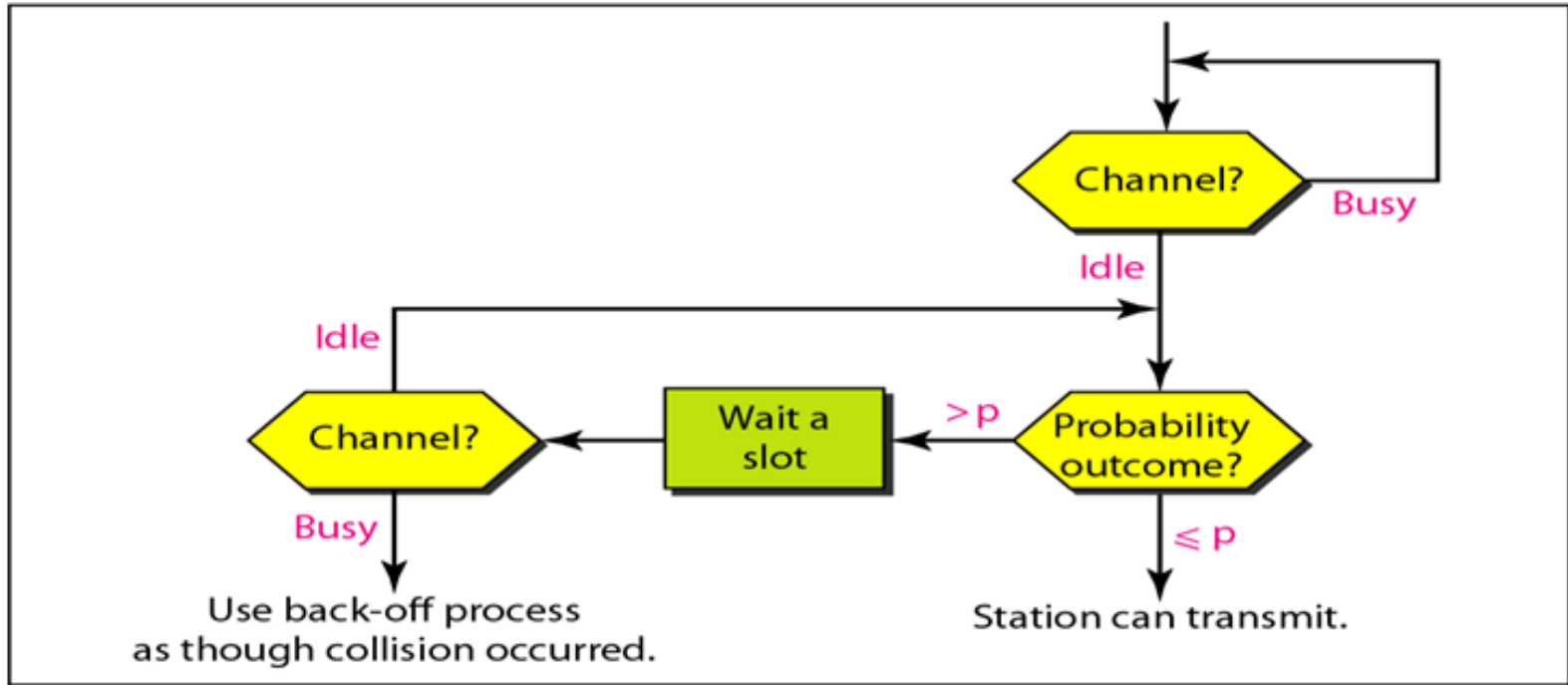
Behavior of 1- Persistent CSMA



1-persistent

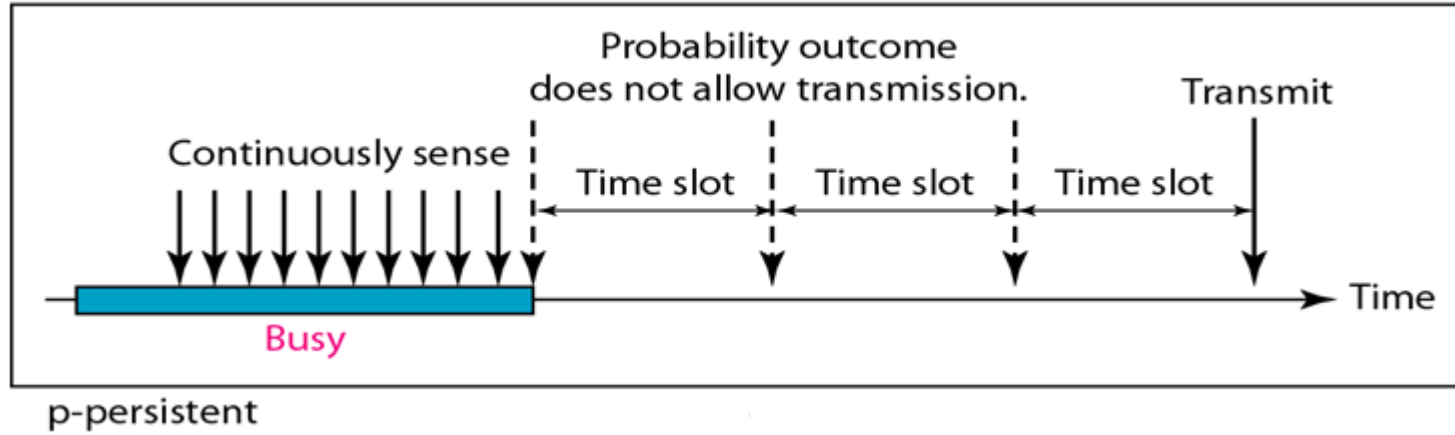
- ✓ When the medium is busy, a station can persistently wait (Continuously Sense) for the medium to become idle, and then transmit with a probability p

Behavior of P-Persistent CSMA

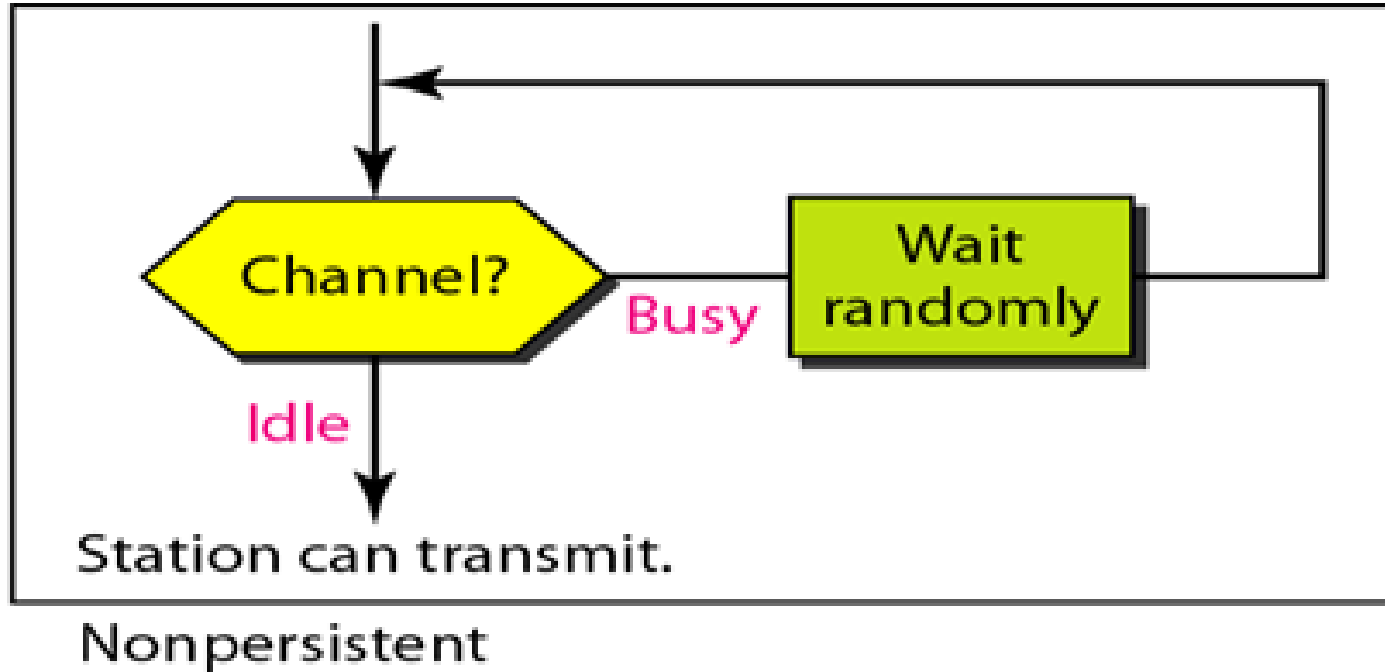


p-persistent

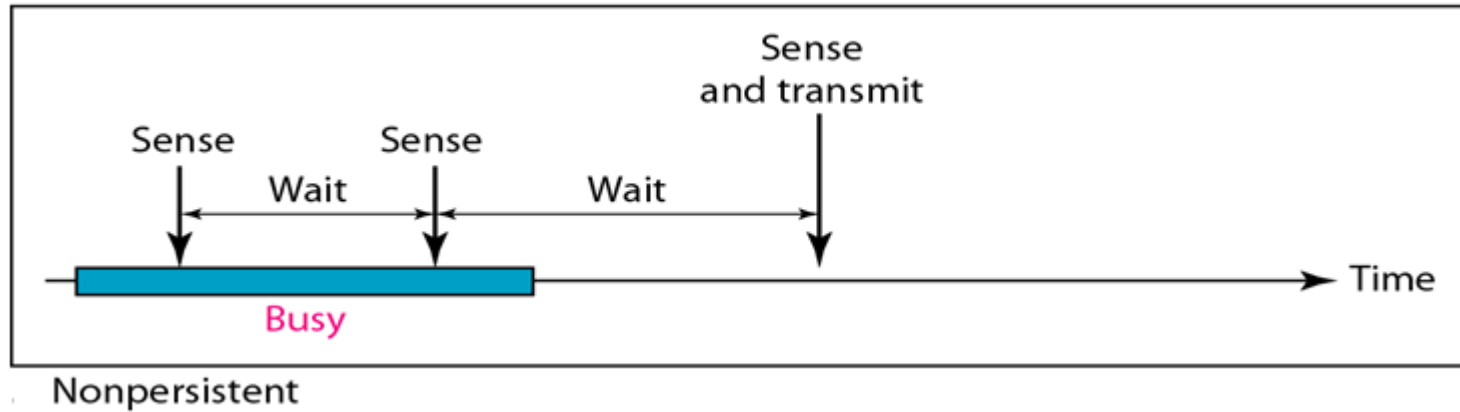
Behavior of P-Persistent CSMA



Behavior of Non-Persistent CSMA



Behavior of Non-Persistent CSMA



- ✓ A station can stop monitoring the wireless medium, and listen to the medium again at predefined time

References

- ✓ Books: Data communication and Networking, Behrouz A Forouzan, Fourth edition
- ✓ Computer Networks, Andrew S. Tanenbaum, 4th edition, PHI
- ✓ Data Communication and Networks, Achyut Godbole, 2007, TMH.
- ✓ Computer Networks: Protocols, Standards, and Interfaces, Uyles Black, 2nd ed, PHI
- ✓ Various relevant websites

Thank You