

CSE3020 Network Technology

Semester 1, 2004

Tutorial 6 -Week 7

Question T6.1 - What is the advantage of sliding-window flow control compared to stop-andwait flow control?

Question T6.2 - Show the sender window operation for Figure 1. Assume a window size of 7.

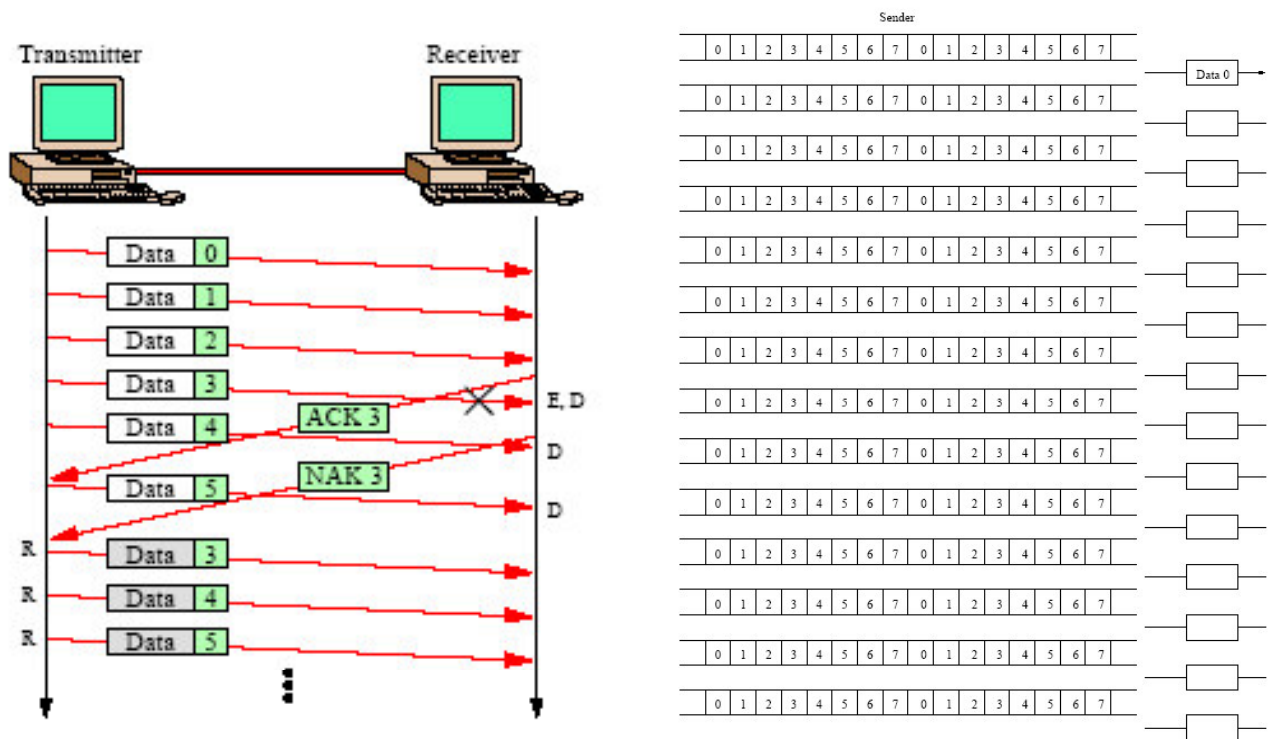


Figure 1: Transmit and Receive operations for Question T6.2

Question T6.3 - Describe automatic repeat request (ARQ). List and briefly define three versions of ARQ.

Question T6.4 - A World Wide Web server is usually set up to receive relatively small messages from its clients but to transmit potentially very large messages to them. Explain, then, which type of ARQ protocol (selective-reject, go-back-N) would provide less of a burden to a particularly popular WWW server.

Question T6.5 - What are the three frame types supported by HDLC? Describe each.

Question T6.6 - What is piggybacking?

Question T6.7 - Define data transparency. Bit stuff the following data:

← 0 0 0 1 1 1 1 1 1 0 1 0 1 1 1 1 1 1 1 1 1 1 0 1 0