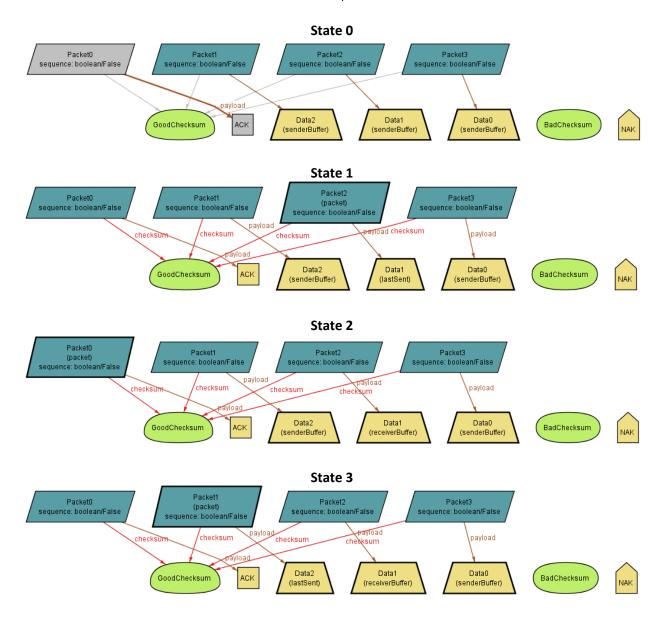
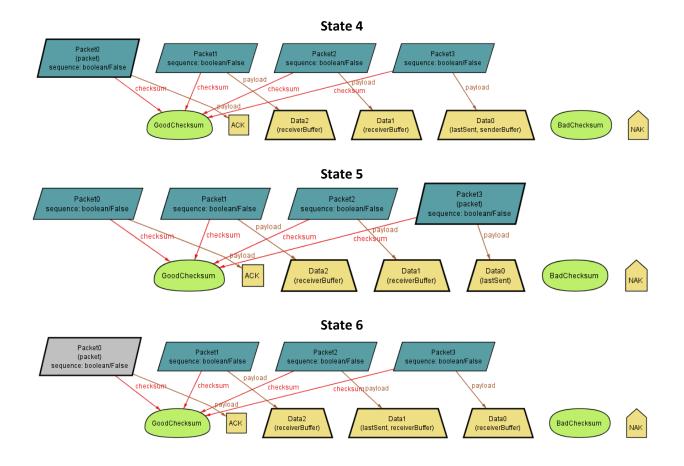
TEAM POTATO Milestone 3

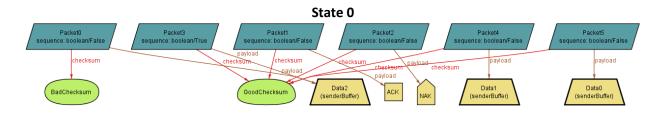
In this milestone, we were asked to model RDT2.1, which specifies that there is a sequence number attached to each data transfer (excluding ACK and NAK). If the data is retransferred, we are guaranteed that the transfer will be a success (again excluding ACK and NAK). Following is the trace where there are no failures. Then we will show a trace with one failure, but ultimate success.



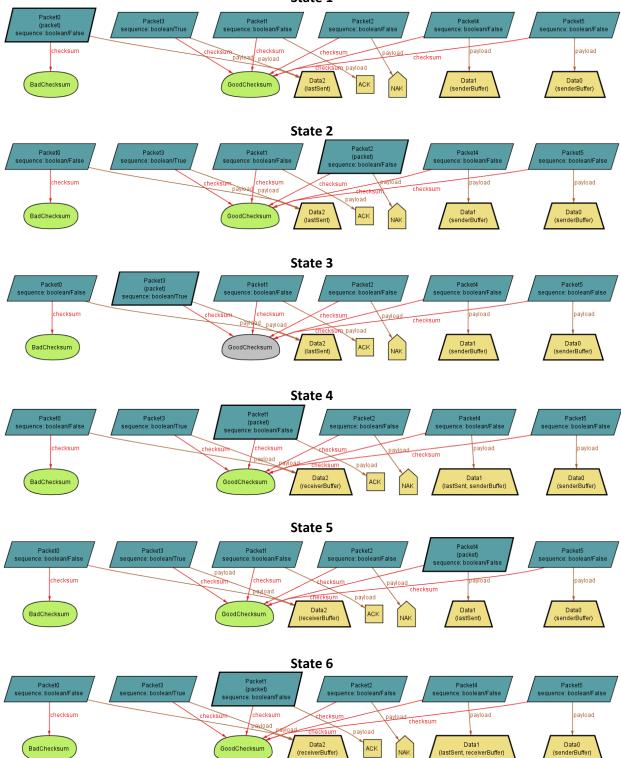


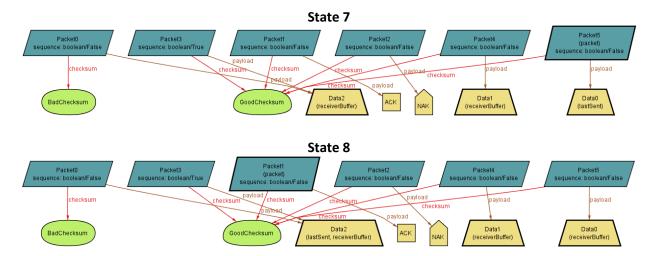
State	Send Buffer	Receiver Buffer	Packet in Channel
0	0, 1, 2	-	-
1	0, 2	-	P2 -> Data1, GoodCs, Seq = false
2	0, 2	1	PO -> ACK, GoodCs, Seq = false
3	0	1	P1 -> Data2, GoodCs, Seq = false
4	0	1, 2	PO -> ACK, GoodCs, Seq = false
5	-	1, 2	P3 -> Data0, GoodCs, Seq = false
6	-	0,1,2	PO -> ACK, GoodCs, Seq = false

Now we move on to the trace where the data is successfully transferred but has one failure to transfer involved.



State 1





State	Send Buffer	Receiver Buffer	Packet in Channel
0	0, 1, 2	-	-
1	0, 1	-	PO -> Data2, BadCs, Seq = false
2	0, 1	-	P2 -> NAK, GoodCs, Seq = false
3	0, 1	-	P3 -> Data2, GoodCs, Seq = true
4	0, 1	2	P1 -> ACK, GoodCs, Seq = false
5	0	2	P4 -> Data1, GoodCs, Seq = false
6	0	2, 1	P1 -> ACK, GoodCs, Seq = false
7	-	2, 1	P5 -> Data0, GoodCs, Seq = false
8	-	2, 1, 0	P1 -> ACK, GoodCs, Seq = false

With this model, if given enough states, the data may not always be transferred, because it possible that we will receive corrupted ACK's indefinitely.