

Type 4 SAP Component: Transition Table

NOTE: Items marked (*) are recommendations for future inclusion in 188-220A.

Transition	Input/Event	Output/Action
TYPE4SAP-2	DL_Unitdata_Request	If the number of outstanding frames is $\geq K$, queue the request. Otherwise: -if the destination is not receiving, queue the request. -Else, put the DIA in the message data structure, set the trans. Count for that DIA to 1, assign ID#, and increment the count of outstanding frames.
TYPE4SAP-3	DRR_Request	Check if Quiet Mode is enabled. If so, discard. Else, put the DRR in the message data structure.
TYPE4SAP-4	DIA Command PDU	Send DL-Unitdata_Ind to network layer. Put DRR (or DRNR, if recv. Buffers full) in message data structure (if Quiet Mode disabled).
TYPE4SAP-5	DRR Command PDU	Change sending station to NOT BUSY. Stop busy-state timer (if running).
TYPE4SAP-6	DRR Response PDU	Mark sender as having sent ack for this PDU. Check if ALL stations which need to ack have done so. If so, stop the ack timer for this PDU and decrement the count of outstanding frames.
TYPE4SAP-7	DRNR Command PDU	Change sending station to BUSY, and start corresponding busy-timer. (*)
TYPE4SAP-8	DRNR Response PDU	Mark sender as having sent ack for this PDU. Check if ALL stations which need to ack have done so. If so, stop the ack timer for this PDU and decrement the count of outstanding frames. (Re)Start busy-state timer (*) for sending station and mark it as BUSY.
TYPE4SAP-9	T1_TIMEOUT(not N2th trans.)	Resubmit the DIA which timed out to the message structure. Increment the transmission count for that PDU.
TYPE4SAP-10	T1_TIMEOUT (N2th transmission)	Mark non-responding dests. As BUSY, and start corresponding busy-state timers. (*) Send DL-Status Indication to network layer indicating failure.
TYPE4SAP-11	Busy-state timer timeout	Discard frame, and decrement outstanding frame count. Change station which timed-out to NOT BUSY.
TYPE4SAP-12	Buffers full and last sent DRR Command	Send DRNR Command PDU
TYPE4SAP-13	Buffers free and last sent DRNR Command	Send DRR Command PDU
TYPE4SAP-14	Outstanding queued request	Handle it as per TYPE4SAP_2 above.