

D. State Tables

This appendix specifies the non-normative state transition tables for RM Source and RM Destination.

Each cell in the tables in this appendix uses the following convention:

Legend
<i>action to take next state</i>

Table 2 RM Source State Transition Table

Events	States							
	None	Connecting	Connected	Rollover	Closing	Closed	Terminating	Terminated
Create Sequence	Transmit Create Sequence Connecting	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Create Sequence Response	N/A	No action Connected	N/A	N/A	N/A	N/A	N/A	N/A
Create Sequence Refused Fault	N/A	No action Terminated	N/A	N/A	N/A	N/A	N/A	N/A
New Message	N/A	N/A	Transmit message Connected	No action Inhibited Rollover	No action Inhibited Closing	N/A	N/A	N/A
Retransmit of unack message	N/A	N/A	Transmit message Connected	Transmit message Rollover	Transmit message Closing	No action Transmit message Closed	N/A	N/A
SeqAck (non-final)	N/A	N/A	Process Ack ranges Connected	Process Ack ranges Rollover	Process Ack ranges Closing	Process Ack ranges Closed	Ignore Process Ack ranges Terminating	Transmit Unknown Sequence Fault Terminated
Nack	N/A	N/A	Transmit message(s) Connected	Transmit message(s) Rollover	Transmit message(s) Closing	No action Transmit message Closed	Ignore No action Terminating	Transmit Unknown Sequence fault Terminated
Reached	N/A	N/A	No action	No action	N/A	N/A	N/A	N/A

Events	States							
	None	Connecting	Connected	Rollover	Closing	Closed	Terminating	Terminated
max msg number			Rollover	Rollover				
Message Number Rollover Fault	N/A	N/A	No action Rollover	No action Rollover	No action N/A Closing	No action Closed?	No action Ignore? Terminating	Transmit Unknown Sequence Fault Terminated
Close sequence	N/A	N/A	Transmit Close Sequence Closing	Transmit Close Sequence Closing	Transmit Close Sequence Closing	No action Transmit Close Sequence Closed	No action N/A? Terminating	N/A
Close sequence Response	N/A	N/A	N/A	N/A	No action Closed	No action Closed	No action Ignore? Terminating	Transmit Unknown Sequence Fault Terminated
SeqAck (final)	N/A	N/A	Process Ack / Nack ranges Closed?	Process Ack / Nack ranges Closed?	Process Ack / Nack ranges Closed?	Process Ack / Nack ranges Closed?	Ignore?Process Ack / Nack ranges Terminating	Transmit Unknown Sequence fault Terminated
Sequence Closed Fault	N/A	N/A	No action? Closed	No action? Closed	No action? Closed	No action? Closed	No action Ignore? Terminating	Transmit Unknown Sequence Fault Terminated
Unknown Sequence Fault	N/A	N/A	No action Terminated	No action Terminated	No action Terminated	No action Terminated	No action Terminated	No action Ignore Terminated
Sequence Terminated Fault	N/A	N/A Terminated	No action Terminated	No action Terminated	No action Terminated	No action Terminated	No action Terminated	Ignore No action Terminated
Terminate sequence	N/A	N/A	Transmit Terminate Sequence Terminating	Transmit Terminate Sequence Terminating	Transmit Terminate Sequence Terminating	Transmit Terminate Sequence Terminating	Transmit Terminate Sequence Terminating	N/A
Terminate Sequence Response	N/A	N/A	N/A	N/A	N/A	N/A	No action Terminated	No action Terminated
Elapse Expires duration	N/A	N/A	Send SequenceTerminated Fault Terminated	Send SequenceTerminated Fault Terminated	Send SequenceTerminated Fault Terminated	Send SequenceTerminated Fault Terminated	Send SequenceTerminated Fault Terminated?	N/A

1195 In Table 2 above, the rows consists of events that occur at the RM Source throughout the lifetime of an
 1196 RM Sequence and the columns consists of various RM Source states. Each cell in the table above lists
 1197 the action that the RM Source takes on occurrence of a particular event and the next state that it
 1198 transitions.

1199 Table 3 RM Destination State Transition Table

Events	States						
	None	Connecting	Connected	Rollover	Rollover-Closed	Closed	Terminated
Creation request not satisfied	N/A	Send Create Sequence Refused Fault Terminated	N/A	N/A	N/A	N/A	
Unrecoverable error on creation	N/A	Send-Sequence-Terminated-Fault? Terminated	N/A	N/A	N/A	N/A	
New Message (with message number within range)	N/A	N/A	No action Send-SequenceAck Connected	RolloverSend-Message-Number-Rollover-or-Sequence-Closed-Rollover-Fault	Send-Message-Number-Rollover-or-Sequence-Closed-Fault?(with SeqAck+Final) Rollover-Closed	Send Sequence Closed Fault (with SeqAck+Final) Closed	Send Unknown Seq Fault? Terminated
Retransmitted message	N/A	N/A	Send-SequenceAck Connected	Send-SequenceAck Rollover	Send-SeqAck+Final Rollover-Closed	Send-SeqAck+Final Closed	Send-Unknown-Seq-Fault Terminated
Ack requested	N/A	N/A	Send SequenceAck Connected	Send-SequenceAck Rollover	Send-SeqAck+Final Rollover-Closed	Send SeqAck+Final Closed	Send Unknown Seq Fault Terminated
Message (with Reach-max-message number outside of range)	N/A	N/A	Send Message-Number-Rollover Fault ConnectedRollover	Rollover	Rollover-Closed	Send Sequence Closed Fault (with SeqAck+Final) Closed	Send Unknown Seq Fault Terminated
Message-Number-Rollover-Fault	N/A	N/A	Rollover	Rollover	Rollover-Closed	Closed?	Send-Unknown-Sequence-Fault

Events	States						
	None	Connecting	Connected	Rollover	Rollover-Closed	Closed	Terminated
							Terminated
Close sequence	N/A	N/A	Send CloseSequenceResponse with SequenceAck (Final) Closed	Send-CloseSequenceResponse-with-SequenceAck-Final Rollover-Closed	Send-Close-Sequence-Response-with-SeqAck+Final Rollover-Closed	Send Close Sequence Response with SeqAck+Final Closed	Send Unknown Sequence Fault Terminated
Close sequence itself	N/A	N/A	Send Sequence Closed Fault Closed	Rollover-Closed	Rollover-Closed	Send Sequence Closed Fault Closed	N/A
Terminate sequence	N/A	N/A	Send Terminate Sequence Response Terminated	Terminated	Terminated	Send Terminate Sequence Response Terminated	Send Unknown Sequence Fault Terminated
Unknown Sequence Fault	N/A	N/A	No action Terminated	Terminated	Terminated	No action Terminated	No action/ignore Terminated
Sequence Terminated Fault	N/A	N/A	No action Terminated	Terminated	Terminated	No action Terminated	IgnoreNo action Terminated
Terminate sequence	N/A	N/A	Terminated	Terminated	Terminated	Terminated	N/A
Elapse Expires duration	N/A	N/A	Send Sequence Terminated Fault Terminated	Terminated	Terminated	Send Sequence Terminated Fault Terminated	N/A

1200 In Table 3 above, the rows consists of events that occur at the RM Destination throughout the lifetime of
1201 an RM Sequence and the columns consists of various RM Destination states. Each cell in the table above
1202 lists the action that the RM Destination takes on occurrence of a particular event and the next state that it
1203 transitions.