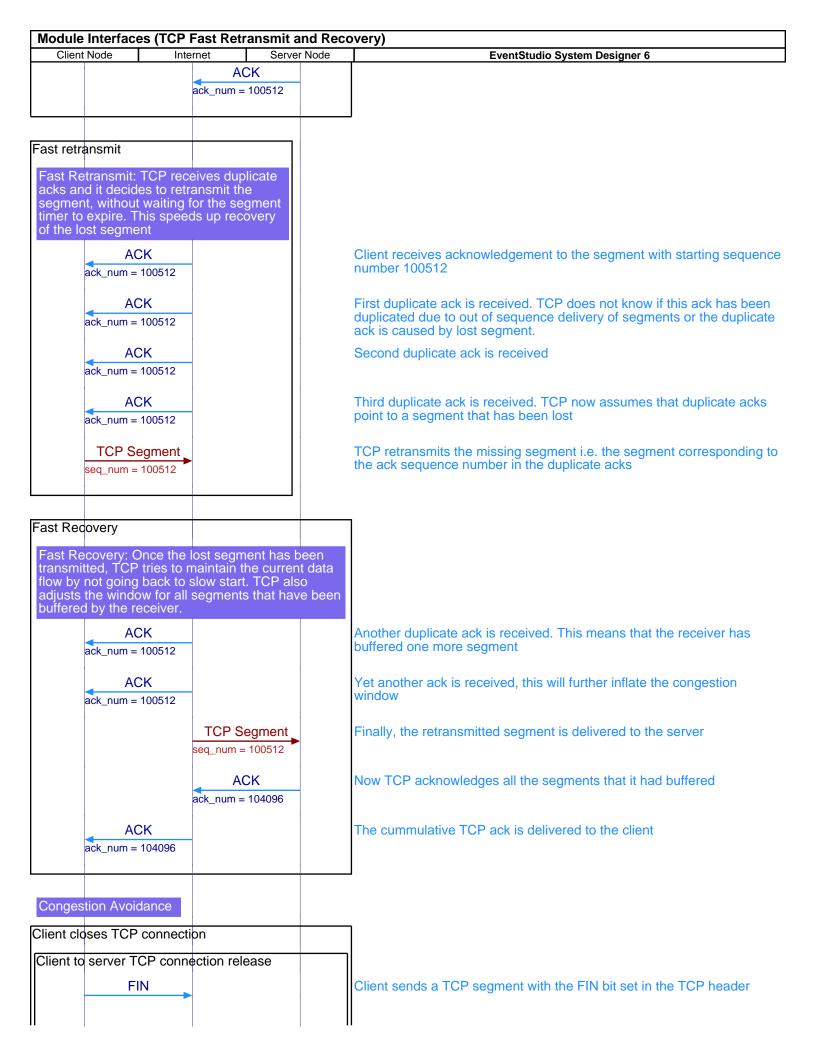


Client Node	Internet	Server Node	EventStudio System Designer 6
	egment		TCP segment (start sequence number = 101024) is transmitted
seq_num =			
	egment		TCP segment (start sequence number = 101536) is transmitted
seq_num =	101536		
	egment		TCP segment (start sequence number = 102048) is transmitted
seq_num =	102048		
TCP S seq_num =	egment		TCP segment (start sequence number = 102560) is transmitted
TCP S seq_num =	egment 103072		TCP segment (start sequence number = 103072) is transmitted
			TCD comment (start conjugate number $= 102594$) is transmitted
seq_num =	egment 103584		TCP segment (start sequence number = 103584) is transmitted
	TCP	Segment	TCP segment (start sequence number = 100000) is delivered to the
		n = 100000	receiver
TCP Seg	ment,		TCP segment (start sequence number = 100512) is lost due to
seq_num =			congestion in the network.
	TCP	Segment	TCP Segment with start sequence number 101024 is received. TCP realizes that a segment has been missed. TCP buffers the out of
	seq_nur	n = 101024	realizes that a segment has been missed. TCP buffers the out of sequence segment as TCP cannot deliver out of sequence data to the application.
		ACK	TCP sends an acknowledgement to the Sender with the next expected
	ack_nun	n = 100512	sequence number set to 100512.
		Segment n = 101536	TCP receives the next segment. This and the following out of sequence segments will be buffered by TCP.
		ACK n = 100512	TCP sends another acknowledgement with the next expected sequence number still set to 100512. This is a duplicate acknowledgement
	TCP	Segment	
		n = 102048	
		ACK	TCP keeps acknowledging the received segments with the next
	ack_nun	n = 100512	expected sequence number as 100512
		Segment	
	seq_nur	n = 102560	
		ACK	
		n = 100512	
		Segment n = 103072	
		ACK n = 100512	
		Segment	
		n = 103584	



Client Node	Internet	Server Node	EventStudio System Designer 6
	F	FIN	Server receives the FIN
	A	СК	Server responds back with ACK to acknowledge the FIN
A	ICK		Client receives the ACK
ver to client	TCP connection rel	ease	
	F	FIN	FIN is sent out to the client to close the connection
F	FIN		Client receives FIN
A	CK		Client sends ACK
	A	СК	Server receives the ACK

This sequence diagram was generated with EventStudio System Designer (http://www.EventHelix.com/EventStudio).