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We developed N	lodel of GMPLS RSVP-TE by Markov chain
For single-hop	LSP with/without control plane failure
For multi-hop	LSP
 We analyzed the 	e performance of GMPLS RSVP-TE with those models
Low signaling state signaling	message loss probability lets RSVP-TE works as well as hard- g protocols
Soft-state sign	naling protocols are stable to control channel failures
 We evaluated the 	e effectiveness of the signaling message retransmission
The message are thousands	retransmission may result in poor resource utilization when there s of sessions
Future work	
 Analysis of other e.g. Parallel re 	r signaling protocols for wavelength routed networks eservation
 Comparison of the protocols in trans 	he performance between soft-state and hard-state signaling sient state
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