



November 2002 Clause 9 Comment Resolution Bob Sultan Necdet Uzun Anoop Ghanwani Gal Mor Komal Rathi



Clause 9 Statistics



	acpt	dup	mod	withdr	total
Technical binding	7	2	9	0	18
Tech. non-binding	9	5	18	1	33
Technical total	16	7	27	1	51
Editorial					62
Total comments					113





151	Avoid reference to rates greater than 10Gbps in rate coefficient table by providing formula.
152	Weights are learned from TLVs in the extended topology message, not from the stationCapabilities bytes
200	The range of the advertisementInterval is [1MTU, agingInterval].
227, 229	Set sendC to 255 when addRateCongested reaches maxAllow (and explain why in text).





133,	Editors to modify definitions of addRate,
134,	addRateCongested, fwRate, fwRateCongested,
143,	and nrXmitRate, to insure that they accurately
144,	reflect the normative pseudo-code descriptions
148	without repeating all details.
196	Statement regarding setting of lowThreshold
	was incorrectly associated with high threshold.
197	Add to existing informative note that higher
	value of lowThreshold can prevent sending
	fairness messages that have no effect because
	they reflect short bursts.





135, 147	Remove text implying that AGECOEF can assume values other than {1, 2, 4, 8, 16} and LPCOEF can assume values other than {16, 32, 64, 128, 256, 512}.
140	Correct definition of congestionPoint to reflect that this is not the most congested station on the ringlet, but in the congestion domain of the local station.
168, 206, 185	Describe rules handling RI in SC-FCM at wrapped station. Editors granted license to appropriately modify current text.





225,	Move computations of addRateOK,
228,	addRateCongestedOK, and sendC to section
184,	describing per-byte operations but state that
191	new values have an effect only at packet
	boundaries. State tables will be provided to
	describe per-byte operations.





168,	Calculation of hopsToCongestion when
178,	wrapped is hopsToWrapPoint when
219,	congestion is on the opposite ringlet, and
230	fwdRateCongested should revert to fwdRate.
212	C-code not to be moved to annex H until completely replaced by appropriate normative state tables and associated normative pseudocode.
174	Description of multi-choke will be moved to a distinct subclause in order to clarify the clause 9 text. No functional change is implied.





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The 'condition' in the row of a state table will contain a pseudo-code function returning a boolean value. The 'action' in a row of a state table will contain one (or a small number of) pseudo-code procedure call. The functions and procedures will be named descriptively. The body of the functions and procedures will appear below the state tables. States will be named with a prefix identify the associated state machine. Tables to be moved to appropriate subclauses.





175	Note describing implications of threshold settings will be labeled 'informative'.
167, 194	Editor granted license to explain aggressive and conservative modes in text. Also will be stated that choice of aggressive or conservative mode is orthogonal to choice of single or dual transit buffer.
137	Ring can contain mix of stations using conservative or aggressive modes.
177	MC-FCM distribution is mandatory.





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aggressive: Mode of operation of the fairness algorithm in which the fairRate is computed based on the congested station's add rate. This allows relatively high utilization of capacity at the expense of wider fluctuation in fairRate values.

conservative: Mode of operation of the fairness algorithm in which the fairRate is computed based on the last fairRate and effect of last fairRate advertised on the congestion state. This allows relatively narrow fluctuation in fairRate values at the expense of capacity utilization.

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195, 218,	Clarification of rules for declaring congestion (with distinct threshold names):
145	dual transit buffer:
	 conservative mode: use both STQ depth and rate thresholds (when one is exceeded, station is congested). aggressive mode: use STQ depth threshold.
	single transit buffer:
	rate thresholds and HoL timers always used.





217	A local station should be counted as active when congested determining the number of active stations.
119	Clause 9 and 6 editors will clarify the interface between their functions.

188, 189, 207, 186,	Various errors and omissions in
215, 216, 181, 132	text, tables, or code on which
	there was little or no discussion