IEEE 802.17 Maintenance Request 0003

MR number	0003	**Classification**	Technical	**Date received**	1/24/2005	**Reserved for official 802.17 use**	

Standard	802.17-2004	**Page**	161	**Subclause**	7.7.1.6.3	**Figure**		**Table**	7.29

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Perceived Problem   [If more space is needed, please provide an additional file, preferably as plain text.]

Ringlet Selection checks for reachability on wrong ringlet which would lead to traffic loss in case of a failure in ring. Reachable() function refers to the transmit direction and the topology database is computing reachability based on the receive direction. Detailed problem description is captured in MR_Reachable_PD.txt.

Proposed Remedy   [If more space is needed, please provide an additional file, preferably as plain text.]

Remedy 1: The function Reachable() should be referring to Other(ringlet), since ringlet refers to the transmit ringlet and the topology database is computing reachability based on the receive ringlet. Remedy 2: Another solution could be changing topology database update reachability on transmit direction. Reachable(address, ringlet) should be modified as to indicate if the Topology database shows that the specified MAC address is reachable via the specified ringlet. Reachablility is determined from topoEntry[Other(ringlet)][index] where index is the index value of the station entry with topoEntry[Other(ringlet)][index] equal to address. Remedy 1 is suggested.

Rationale For Remedy   [If more space is needed, please provide an additional file, preferably as plain text.]

The Reachable() function change is simpler compared to the second option of modifying Topology state machine.

Remedy's Effect On Existing Equipment   [If more space is needed, provide an additional file, preferably as plain text.]

Proper ringlet selection for data frames for steering in case of a failure in ring. No side effects identified.

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