



802.17b Requirements

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The following are proposals with respect to the draft requirements in Requirements_11-18-04_01.xls





Draft Requirement 2

“All operations shall be in line with the currently defined standard for 802.1D/Q.”

Add clarification

"such that they are easily merged, including that only one lookup table is necessary."





Draft Requirement 11

“802.17b standard shall not cause frame reordering or duplication of relaxed frames during stable operation but may do so during topology changes”

This is too vague. Replace with

“802.17b standard shall not cause frame reordering or duplication of relaxed frames when changing between flooded and directed unicast transmission”





Draft Requirement 11, Cont'd



This should be optional, not mandatory. Just as relaxed mode is an option to allow implementations to cause misordering during protection events, there should also be an option to allow causing misordering when switching between flooding and directed unicast. Let the user decide whether losing or misordering frames is preferred.





Draft Requirement 12

“802.17b shall support independent VLAN learning (IVL) within SAS”

This should be optional, not mandatory.
Compliance with 802.1D is required which means "VLAN unaware" is allowed.

Also "within SAS" seems to imply learning VLANs rather than provisioning them as .1Q requires (even GVRP is a form of provisioning). This conflicts with the “merged” requirement #2.





Draft Requirement 14

“802.17b MAC must be able to operate on a ring with 802.17-2004 MACs without causing any degradation in the functionality received or offered by the 802.17-2004 MACs”

This is a good general goal but it's too soon to make this restriction mandatory. Any potential degradation should be weighed for its cost/benefit.





Draft Requirement 16

“802.17b shall support the "4 MAC address" interface supported by the MA_DATA.request primitive in 802.17-2004 by "bypassing" the SAS functionality if the client provides all four addresses.”

This should be optional at best. The "4 address from the client" capability was put in .17 to allow us to do proprietary enhanced bridging. Supporting it in .17b adds unnecessary complication.





Draft Requirement 17

“SAS shall not prevent frames where the MAC client sets extended DA/SA in the current 802.17 unitdata.request message from being transmitted on the ring.”

This is a variation of #16 and should be optional, at best.

