Work items addressed

- First pass of rules for Pruning of SDB entries on topology change (versus Emptying SDB)

Pruning Method

- **For TOPO_CHANGE or PROT_ CHANGE, MA_CONTROL_indication primitive makes the topology and status database available to a MAC client (Table 6.7/802.17)**
  - RPR Topology database entries are marked – R, V, I
- **Update SDB as follows:**
  - (R) – Valid and Reachable RPR stations – Do not prune
    - Should be (R) on at least one ringlet
  - (I) – Invalid entry – Prune
  - (V) – Valid but not reachable – Prune
  - Prune all other SDB entries (for stations that are not “seen” as part of the new topology but were part of the old)
  - Pruned entries are not remembered, SDB Entries associated with (V,I) are not remembered
  - As RPR stations become valid & reachable, the associations are relearned
- **Some CR standing conditions such as: Topology inconsistency, instability etc. – should result in SDB purging**

FUJITSU

Example --

- **Include a short section with an example based on Section "11.5.4 Topology Change Sequence" of 802.17 Standard**
- **WRT Section 11.5.4 of Specification – Station S1**
  - Figure 11.27 (a) – Stable Closed ring -- SDB contains entries associated with S2, .., S6
  - Figure 11.27 (b) – FS Opens ring – station across edge is marked (V) – SDB contains entries associated with S2, .., S6
  - Figure 11.27 (c) – Severed Span depopulates open ring -- SDB contains entries associated with S2 and S3
  - Figure 11.27 (d) – Remote Edge reports – S1 sees new stations -- SDB contains entries associated with S2, S3 associations but not S7,S9 (marked I) or S8 (marked V)
  - Figure 11.27 (e) – Preceding edge reports – SDB can contains entries associated with S2,S3,S7,S8.
  - Figure 11.27 (f) – S1-S9 span restored – SDB can contains entries associated with S2,S3,S7,S8 and S9.

FUJITSU