PBB-TE support of LAG protection

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LAG diagnosis issue

- If a portion of Bridged network is deployed with LAG, a CCM, LTM, or LBM passes through one physical link which composes a LAG.
- Since CCM, LTM, and LBM may not detect partial links failure of LAG, they provide unreliable diagnosis.

- If LAG inverse multiplexer distributes CCM, LTM, and LBM to all physical links which compose a LAG, they can detect partial links failure, however it may be unrealistic scenario.
LAG diagnosis and protection

Practical solution may be monitoring continuity of all physical links in a LAG, then ensure availability of the LAG.

If a physical link failure in a LAG is detected:
- the working LAG is switched to a protection LAG or
- frame distribution rule and QoS parameter are adjusted.

![Diagram of LAG diagnosis and protection](image-url)
Proposed solution

- However, current CFM specification does not support monitoring continuity of all physical links in a LAG
- Therefore, CFM specification should be extended for support of CCM MEPs located end points of physical links which compose a LAG

- Otherwise, development of 1:N Ethernet link protection protocol is necessary for replacement of LAG