Channel Operating Margin (COM) Code as Open Source

Kent Lusted, Intel Corporation

Background

- IEEE Std. 802.3 and amendments normatively specify Channel Operating Margin (COM) via equations and methods in Annex 93A
  - This proposal would not impact the continued normative specification of COM through equations and methods in Annex 93A
- There have been and continue to be contributions of software code implementations of these equations and methods for participants to use
- The contributed COM software code implementation is being widely used by industry participants
- It is increasingly important to ensure that the “reference” code implementation is revision controlled, peer reviewed, cross checked, and bug free and maintained over time

A Path – IEEE SA Open Source

- Investigating the use of the IEEE SA BOG Open Source Committee (IEEE OSCom) framework for the COM code
  - https://opensource.ieee.org/
  - https://standards.ieee.org/wp-content/uploads/import/documents/other/OSCOM_Operations_Manual.pdf
- The IEEE Open Source Platform consists of the code and document repositories, license repositories, communication forums, Project management systems, and related administrative and end-user tools maintained by IEEE for the purpose of hosting Open Source Projects together with the associated governance mechanisms, support mechanisms, and other services offered to participants, users, and consumers of Open Source Projects.

Summary

- The normative COM specification would remain the equations and methods in Annex 93A
- Going forward, we need to ensure that the COM “reference” code implementation is revision controlled, peer reviewed, cross checked, and bug free and maintained over time
- IEEE SA Open Source is a viable path
- More details in the future