

applications. Growth in traffic and new applications demand greater bandwidth. IEEE 802.3 [Std](#) does not currently support greater than 10 Mb/s over a single balanced pair of conductors longer than 40 m.

5.6 Stakeholders for the Standard: End-users, vendors, system integrators, and providers of systems and components (e.g., sensors, actuators, instruments, controllers, network infrastructure, user interfaces, and servers) for networks including industrial and building automation, mobile machinery (e.g., construction, agricultural equipment), and non-automotive transportation (e.g., buses, trains, aircraft, and ships).

6.1 Intellectual Property

6.1.1 Is the Standards Committee aware of any copyright permissions needed for this project?

No

6.1.2 Is the Standards Committee aware of possible registration activity related to this project?

No

7.1 Are there other standards or projects with a similar scope? No

7.2 Is it the intent to develop this document jointly with another organization? No

8.1 Additional Explanatory Notes: [5.5: IEEE Std 802.3 – Standard for Ethernet](#)