

Clause	802.3cz Current	802.3cz modified	802.3dh new
2.1 Project Title	Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for Multi-Gigabit Optical Automotive Ethernet	Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for multi-gigabit optical Ethernet using graded-index glass optical fiber for application in the automotive environment	Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for multi-gigabit optical Ethernet using graded-index plastic optical fiber for application in the automotive environment
4.2 Expected Date of submission of draft to the IEEE SA for Initial Standards Committee Ballot:	Mar-22	Nov-22	Jan-24
4.3 Projected Completion Date for Submittal to RevCom	Oct-22	Jun-23	Sep-24
5.1 Approximate number of people expected to be actively involved in the development of this project:	40	As it is	30
5.2.b Scope of the project	Specify additions to and appropriate modifications of IEEE Std 802.3 to add Physical Layer specifications and management parameters for multi-gigabit optical Ethernet for application in the automotive environment.	Specify additions to and appropriate modifications of IEEE Std 802.3 to add Physical Layer specifications and management parameters for multi-gigabit optical Ethernet using graded-index glass optical fiber for application in the automotive environment.	Specify additions to and appropriate modifications of IEEE Std 802.3 to add Physical Layer specifications and management parameters for multi-gigabit optical Ethernet using graded-index plastic optical fiber for application in the automotive environment.
5.3 Is the completion of this standard contingent upon the completion of another standard?	No	As it is	Yes Explanation: IEC 60793-2-40 has been proposed for early revision to address automotive applications. Wavelength of operation will be considered as well as bandwidth and attenuation specifications and mechanical properties.
5.4 Purpose	This document will not include a purpose clause	As it is	As it is
5.5 Need for the Project	Applications in automotive industries have begun the transition of legacy automotive networks to Ethernet to support Advanced Driver Assist Systems. This has generated a need for data rates greater than 1 Gb/s in the automotive environment. Optical fiber has been used in automotive applications both for Ethernet and other protocols. This project will complement other 802.3 projects working on specifications for electrical media operation at rates greater than 1 Gb/s in the automotive environment. The number of cameras in vehicles is increasing as is the camera data rate with movement to higher resolution video. Optical data links are applicable to both the vehicle network backbone as well as connection of selected devices where location or other factors favor using an optical link.	Applications in automotive industries have begun the transition of legacy automotive networks to Ethernet to support Advanced Driver Assist Systems. This has generated a need for data rates greater than 1 Gb/s in the automotive environment. Optical fiber has been used in automotive applications both for Ethernet and other protocols. This project will complement existing IEEE Std 802.3 Electrical Automotive Ethernet specifications for electrical media operation at rates up to 10 Gb/s, as well as proposed specifications for electrical media operation at rates greater than 10 Gb/s in the automotive environment. The number of cameras in vehicles is increasing as is the camera data rate with movement to higher resolution video. Optical data links are applicable to both the vehicle network backbone as well as connection of selected devices where location or other factors favor using an optical link.	Applications in automotive industries have begun the transition of legacy automotive networks to Ethernet to support Advanced Driver Assist Systems. This has generated a need for data rates greater than 1 Gb/s in the automotive environment. Optical fiber has been used in automotive applications both for Ethernet and other protocols. This project will complement both existing IEEE Std 802.3 Automotive Ethernet standards and ongoing projects using electrical and optical media. The project will provide increased data rates using graded-index plastic optical fiber media for operation in the automotive environment. The number of cameras in vehicles is increasing as is the camera data rate with movement to higher resolution video. Optical data links are applicable to both the vehicle network backbone as well as connection of selected devices where location or other factors favor using an optical link.
5.6 Stakeholders for the Standard	End-users, vendors, automotive Original Equipment Manufacturers, Tier x suppliers, system integrators, and providers of systems and components (e.g., sensors, actuators, test and measurement equipment, harnesses and harness components, software, silicon, and control units) for automotive applications.	As it is	As it is
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	As it is	As it is
7.1	Are there other standards or projects with a similar scope? No	As it is	As it is
7.2	Is it the intent to develop this document jointly with another organization? No	As it is	As it is
8.1 Additional Explanatory Notes	5.6 -- Tier x refers to the various levels of suppliers to Original Equipment Manufacturers (e.g., car manufacturer). A Tier 1 supplier for example supplies components or subsystems directly to the OEM.	5.2.b -- It became apparent to the IEEE 802.3 Working Group that the state of technology for graded-index glass and plastic fiber are different, and that a faster timeline for a graded-index glass fiber only project is achievable. 5.6 -- Tier x refers to the various levels of suppliers to Original Equipment Manufacturers (e.g., car manufacturer). A Tier 1 supplier for example supplies components or subsystems directly to the OEM.	5.3 -- IEC 60793-2-40 "Optical fibres – Part 2-40: Product specifications – Sectional specification for category A4 multimode fibres" 5.6 -- Tier x refers to the various levels of suppliers to Original Equipment Manufacturers (e.g., car manufacturer). A Tier 1 supplier for example supplies components or subsystems directly to the OEM.