

“Greater than 10BASE-T1L” Power

Heath Stewart et al



10BASE-T1L Power Considerations

- ▶ Powered Ethernet Networks are critical to successful adoption in the marketplace
 - PoE is seeing steadily increasing penetration in the traditional CAT-N Ethernet market
 - Power is an integral feature of past, present and future SPE networks
- ▶ Support for a power objective has been expressed in this Study Group
 - https://www.ieee802.org/3/SPEP2P/public/graber_3SPEP2P_01a_06232021.pdf
- ▶ Propose the Study Group and Task Force explore power solutions appropriate for given topologies
 - **Star Topologies**
 - Allow high-reliability point-to-point connections a la PoE
 - Clause 104 has already been defined for 10BASE-T1L
 - Add Type for 100BASE-T1L et al
 - **Line Topologies**
 - Popular in OT networks and deployments
 - Consider new clause for line power topologies