

# IEEE 802.3 Isolation Ad Hoc Suggested Recommendations to the Maintenance Task Force

Steve Carlson  
High Speed Design, Inc.  
November 2017

# Introduction

---

- The IEEE 802.3 WG chair has updated the ad hoc charter per [0917\\_isolation\\_report.pdf](#)
- “To examine the current text in IEEE Std 802.3 for electrical isolation and text referencing external safety standards, and build consensus on proposed updates to be provided to the Maintenance Task Force.”

## Suggested Path Forward

---

- Create a high-level list of work to be done
- This is not the **actual** work
- Submit this list to the Maintenance Task Force for consideration in November
- The Maintenance TF will decide how to proceed
- Per the Maintenance TF chair this work will NOT be part of IEEE 802.3cj

# Recommendations to Maintenance TF

---

1. Identify by clause number all instances in IEEE 802.3cj that refer to “isolation” and “safety”
2. Identify by clause number all instances in IEEE 802.3cj that refer to “IEC 60950” and IEC 60950-1”
3. Move all references to IEEE Std 802.3 isolation requirements to a single place in the document
  1. This might be the introduction or an annex
4. Create language for isolation requirements and testing that reference the appropriate clause(s) in IEC 62368-1
5. Insure that all language that references “safety” is a pointer to an external safety standard, not a requirement mandated by IEEE 802.3cj.
6. Locate and remove all language that directly mandates compliance with IEC 60950-1 as this is frequently misconstrued

# Recommendations

---

7. Remove Clause 8 (10BASE5) and Clause 10 (10BASE2)
  1. Leave the entries in the TOC and add a note that the clauses are deprecated and have been removed
  2. Examine all links to and from Clauses 8 and 10 in IEEE 802.3cj and make a recommendation for each as to how the missing reference is to be handled. (NOTE: This cross-reference issue is of concern to the IEEE 802.3 Vice-Chair/Maintenance Chair and may be a significant effort)

## Next Steps

---

- Continue ad hoc conference calls
- Refine the recommendations in this presentation for submission to the Maintenance TF in November