

# 802.3bj 2<sup>nd</sup> MDI Proposal

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802.3bj 100 Gb/s Backplane and Copper Cable Task Force  
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# 2<sup>nd</sup> MDI Proposal Background

- 802.3bj Baseline MDI Proposal (tracy\_01\_0312) has been made for QSFP28
- The co-authors of this presentation support QSFP28 as Baseline MDI for 802.3bj
- CFP4 with CAUI-4 (4x28G) I/O has been defined by the CFP MSA as a larger and higher thermal capacity form factor than QSFP28 to enable full range of optical interfaces including 100GE-SR4, 100GE-SR10 with OIF MLG, 100GE-LR4, 100GE-ER4, and 100G Metro DWDM
- CFP4 provides full MIS (MDIO) compatibility with CFP MSA CFP and CFP2 form factors, as well as OIF 100G DWDM IA form factor

## 2<sup>nd</sup> MDI Proposal Background, cont.

- System OEMs desire that CFP4 ports support 100GE-CR4 copper cable interfaces to complement the full range of supported optical interfaces
- The following are possible 100GE-CR4 cable assemblies:
  - QSFP28 ↔ QSFP28
  - QSFP28 ↔ CFP4
  - CFP4 ↔ CFP4

# CFP4 Status

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- The CFP4 Baseline Design is now in formal Comment Resolution by the CFP MSA Reviewers
- Some dimensional changes are possible as part of the Comment Resolution process
- Assuming no major problems uncovered by CFP MSA Reviewers, the Baseline Design is expected to be frozen in May and all controlled CAD documentation to be available in early June
- CFP4 MSA HW Specification expected to be completed by the end of June
- Connector samples expected by July
- CFP4 electrical performance presented in nishimura\_01\_0512

# 2<sup>nd</sup> MDI Proposal

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- Propose to adopt CFP4 as a 2<sup>nd</sup> MDI for 802.3bj
- Propose to add language in cole\_02\_0512 (text formatting proposed by John D'Ambrosia) to Clause 92

# CFP MSA Documentation

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- All CFP MSA Documentation is available free of charge and free of any use restrictions to everyone
- All CFP MSA Documentation is available on the CFP MSA web site: <http://www.cfp-msa.org/documents.html>
- CFP MSA will provide all required documents to 802.3bj Editors in the proper format