



## Discrepancies between clauses 86, 87 and 95

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- CI 95 SC 95 P 93 L 1      Comment 204      Comment Type TR
- There are a variety of minor differences between the specification for 40GBASE-SR4 and this draft for 100GBASE-SR4. It looks like some are intentional, some are not (material copied from 40GBASE-LR4 that doesn't suit -SR4), and very few are necessary.
- Suggested Remedy
- If Clause 95 is kept as a separate specification for 100GBASE-SR4, find all these differences using a comparison tool, review each one, align Clause 95 to Clause 86 wherever practical, submit maintenance requests for Clause 86 where an improvement is desired. Also make greater use of references to Clause 86 rather than (not quite?) copying material.
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- Following my own advice, this presentation documents some of these differences

## ■ 86.1 Overview

- When forming a complete Physical Layer, a PMD shall be connected to the appropriate PMA as shown in Table 86–1, to the medium through the MDI, and **optionally to the management functions that are accessible** through the management interface defined in Clause 45, or equivalent.

## ■ 87.1 Overview

- When forming a complete Physical Layer, a PMD shall be connected to the appropriate PMA as shown in Table 87–1, to the medium through the MDI and **to the management functions that are optionally accessible** through the management interface defined in Clause 45, or equivalent.

## ■ 95.1 Overview

- When forming a complete Physical Layer, a PMD shall be connected to the appropriate PMA as shown in Table 95–1, to the medium through the MDI and **to the management functions that are optionally accessible** through the management interface defined in Clause 45, or equivalent.
- It was agreed in P802.3ba that 86.1 and 87.1 should differ because 40GBASE-LR4 has a mandatory management function (87.5.8 PMD lane-by-lane transmit disable function shall be provided for testing purpose, although it does not have to be implemented in MDIO), while 40GBASE–SR4 and 100GBASE–SR10 do not.
- 40GBASE-LR4 needs this function for convenient testing of each WDM lane. 100GBASE–SR4, like 40GBASE–SR4 and 100GBASE–SR10, do not.
- Change the sentence in 95.1 to align with 86.1.

- To be continued, if time permits

Thank You

