

Effect of bypassing error correction for RS-FEC.

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Criteria for consideration.



Comparison of RS FEC with error correction bypassed to no-FEC.

- Latency is approx. 200ns higher
- Frame Loss Ratio is higher for the same BER
- MTTFPA (Mean Time to False Package Acceptance) is not adequate for BER 1e-12 even if there is no error extension. (no FEC only has an issue with MTTFPA at BER of 1e-12 if error extension factor is close to 0.5

Other Consideration.

- There is a saving in Latency, but only approx. 50ns, versus RS FEC with error correction.
- It's the same as 802.3bj
- It would be a change to the draft to remove it.
- Conclusion. We shouldn't be encouraging people to shoot themselves in the foot even if it does need a change in the draft.