

Short Reach PHY Proposal

Ethernet over DMT-VDSL

- Decision Time

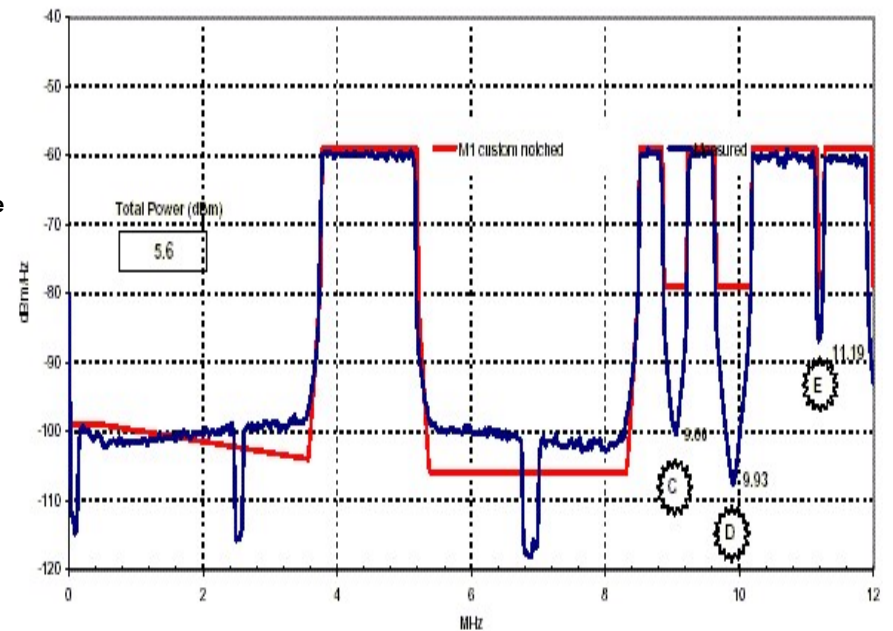
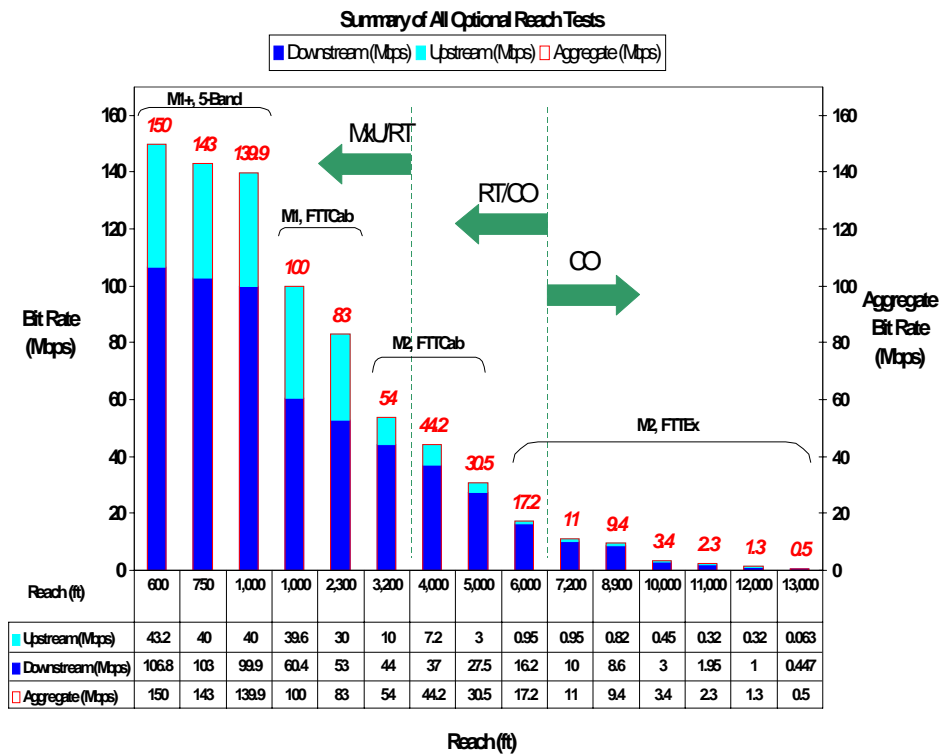
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The only conclusion from test results DMT performs faster, better, longer

- Technical results from independent labs showed a compelling advantage of DMT over QAM in reach results
- DMT performance in presence of Bridge Taps and Notches were much better as had been predicted
- Only DMT showed plan 997, and China bandplan - achieving true single port type
- Only DMT showed all payload rate profiles as specified by Annex 62A.
- VDSL-DMT achieved 100 Mbps over a single twisted pair - true high speed Ethernet

Best Verified Overall Performance Rate, Reach and Flexibility





T1E1.4 Decision for VDSL Line Code

- T1E1.4 fulfilled its promise to IEEE to make a timely line code decision for the American National Standard for VDSL.
- The decision was made with many companies present and with only 1 objection.
- The DMT modulation method will be specified in the American National Standard



Conclusion

- **T1E1.4 has done what we asked: DMT chosen for elevation to ANSI Std.**
- **VDSL-DMT is what the customers want**
- **VDSL-DMT meets the 5 Criteria**
- **VDSL-DMT outperforms VDSL-QAM**
- **VDSL-DMT is the right choice for SR EFM Cu**



Conclusions

The supporters of this presentation request that DMT-VDSL be selected as the single line code for 10PASS-TS.