

TP3 “3-impulse” test

Proposed investigation

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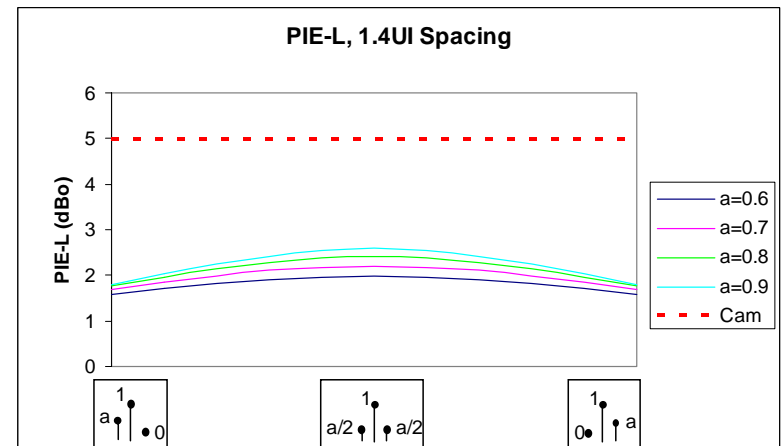
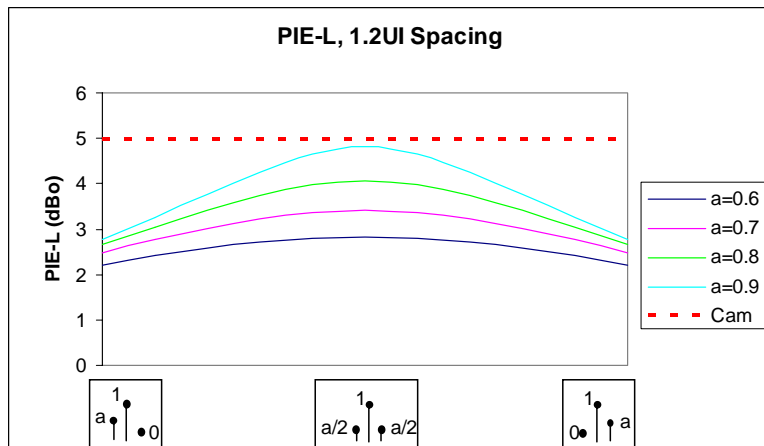
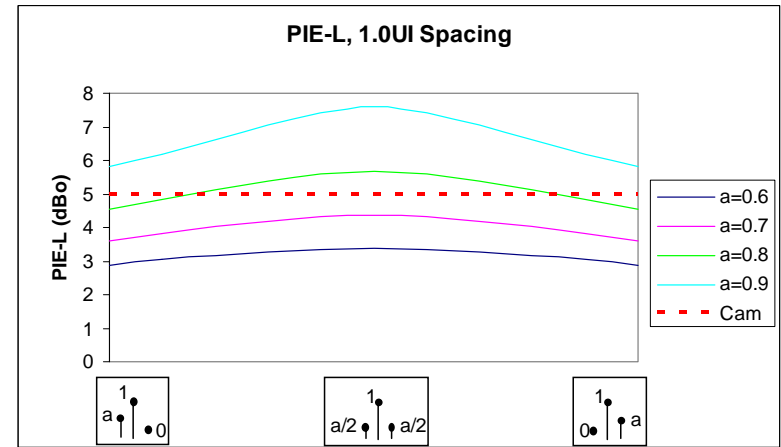
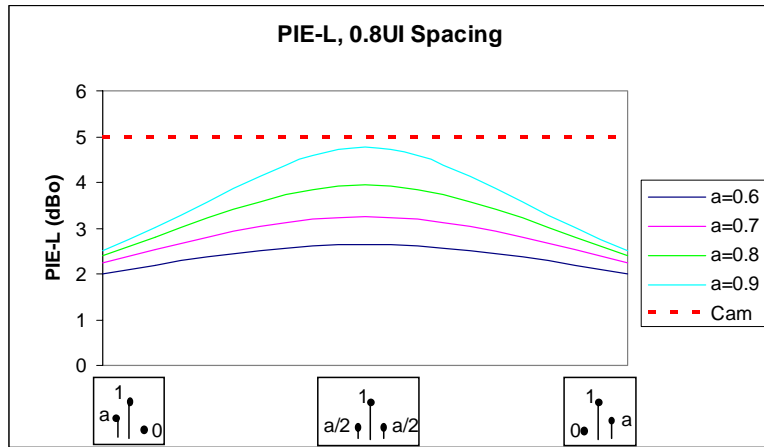
Proposed investigation

- Evaluate PIE-L & PIE-D for a range of spacings and amplitudes (some already done – see below)
- Compare with PIE-L & PIE-D for installed base (as modelled by Cambridge fibers)
- Check sensitivity of PIE values to variations in spacing and amplitude (ie. check 3-impulse test is implementable with reasonable tolerances)

Some Results

- Red dotted line shows “99%” PIE for installed base (as modelled by Cambridge fibers at 300m)
- X axis shows shift from precursive to postcursive ISI
- Curves are labelled according to the amount of energy in the interferers (relative to a cursor of 1.0)
- PIEs calculated for 3-impulse response + filters representing tx & rx

PIE-L



PIE-D

