

November 15, 2001

Mr. Ed Eckert, Chairman T1E1

VIA EMAIL: [eeckert@catena.com](mailto:eeckert@catena.com)

Reply: T1E1/2001-073 R1, "Update on VDSL Standard for Trial Use and a request for cooperative work on spectrum management relative the EFM on copper activity"

Mr. Eckert,

On November 13, 2001, the liaison letter was presented to the 802.3ah Ethernet in the First Mile Task Force. Thank you for providing this information. The Draft Trial Use VDSL standard currently in the letter ballot comment resolution period in T1E1.4, T1.417-2001 Spectrum Management standard, and work being conducted in other standards development organizations, continue to be seriously considered as 802.3ah develops standards for copper based Ethernet in the First Mile.

All of the baseline proposals given at this meeting have referenced both the T1E1.4 Draft Trial Use Standard and the T1.417 Spectrum Management Standard.

Please note that we are considering new objectives regarding the PHY for copper part of the IEEE 802.3ah Ethernet in the First Mile Task Force:

- Include an optional specification for combined operation over multiple copper pairs
- PHY for single pair non-loaded voice grade copper, distance  $\geq 4600\text{m}$ , 0.4mm,  $\geq 256\text{kps}$
- PHY for single pair non-loaded voice grade copper, distance  $\geq 3700\text{m}$ , 0.5mm,  $\geq 4\text{Mbps}$

These objectives would apply in parallel with the other objectives already adopted:

- PHY for single pair non-loaded voice grade copper distance  $\geq 2500\text{ft}$  and speed  $\geq 10\text{Mbps}$  aggregate
- The point-to-point copper PHY shall recognize spectrum management restrictions imposed by operation in public access networks, including:
  - Recommendations from NRIC-V (USA)
  - ANSI T1.417-2001 (for frequencies up to 1.1MHz)
  - Frequency plans approved by ITU-T SG15/Q4, T1E1.4 and ETSI/TM6

We will welcome further liaison from committee T1 on this subject.

Best Regards,

Geoff Thompson, ([thompson@ieee.org](mailto:thompson@ieee.org)) Chairman IEEE 802.3

Cc: Howard Frazier, ([millardo@dominetsystems.com](mailto:millardo@dominetsystems.com)) IEEE 802.3ah EFM Task Force Chair  
Cc: Paul Nikolich, ([nikolich@ieee.org](mailto:nikolich@ieee.org)) IEEE 802 LMSC Chair