IEEE 802.3 Ethernet Working Group Liaison Communication

To: Mr Ladji Diakité, IEC SC 46C Secretary <ladji.diakite@sycabel.com>

CC: Mr Matei Cocimarov, IEC Officer <mco@iec.ch>
Mr Paul Nikolich, Chair, IEEE 802 LMSC <p.nikolich@ieee.org>
Mr Adam Healey, Secretary, IEEE 802.3 Ethernet Working Group <adam.healey@lsi.com>
Mr Wael Diab, Vice-chair, IEEE 802.3 Ethernet Working Group <wdiab@broadcom.com>

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Subject: Liaison reply to IEC SC 46C from IEEE 802.3

Date: 15th July 2010

From: David Law, Chair, IEEE 802.3 Ethernet Working Group <dlaw@hp.com>

Approval: Agreed to at IEEE 802.3 Plenary meeting, San Diego, CA, USA, 15th July 2010

Dear Mr. Diakité,

Thank you for your communication dated 10th June 2010 requesting clarification on the requirement for DC resistance unbalance between pairs in a single cable.

There are no requirements for this parameter in the approved IEEE Std 802.3-2008, published amendments or draft projects underway. IEEE Std 802.3at-2009 sub-clause 33.1.4.2 does specify DC resistance unbalance between conductors within a pair for DTE Power (Power over Ethernet) applications.

IEEE 802.3 standards reference ISO/IEC 11801 for cabling channel performance and implementation, and we have a long-standing liaison relationship with the group responsible for this standard, ISO/IEC SC25 WG3. ISO/IEC 11801 defines generic cabling for a broad range of applications (i.e. not just IEEE 802.3 applications). We would therefore encourage you to liaise directly with ISO/IEC SC25 WG3 to clarify the need for DC resistance unbalance between pairs in a single cable.

Sincerely,

David J. Law
Chair, IEEE 802.3 Ethernet Working Group

[1] This document solely represents the views of the IEEE 802.3 Working Group, and does not necessarily represent a position of the IEEE, the IEEE Standards Association, or IEEE 802.