**INTERNATIONAL
ELECTROTECHNICAL
COMMISSION**

Application form for international organizations wishing to create a liaison with an IEC technical committee

Technical Committee or Subcommittee concerned (TC number and title)

TC IEC TC 64/MT 2: Current carrying capacity of conductors and related overcurrent protection

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Applicant Organization:

IEEE

Liaison category (see the ISO/IEC Directives Clause 1.17.2 for details):

☐   A (at the Committee level)

☐   B (at the Committee level)

☒   C (at the Working Group level)

Background

The IEEE 802.3 Ethernet Working Group understands that IEC TC 64/MT 2 is considering potential new topics for the revision of IEC 60364-5-52, 'infrastructure cable technologies wiring systems' being one of the topics. The IEEE 802.3 Ethernet Working Group observes that Power over Ethernet specified by the IEEE 802.3 Ethernet standard (adopted as ISO/IEC/IEEE 8802-3) is the most prevalent standard used by equipment powering devices remotely over infrastructure cabling.

The Power over Ethernet specifications include 2-pair and 4-pair Power over Ethernet over selected multi-pair channels defined by the ISO/IEC 11801-1 standard developed by ISO/IEC JTC 1/SC 25/WG 3, supplying up to 71 W to the remotely powered device. Additionally, these specifications include 1-pair Power over Ethernet over selected 1-pair channels defined by ISO/IEC 11801-1, supplying up to 52 W to the remotely powered device. Further, IEEE 802.3 WG has projects that may increase the single pair power beyond 52W.

Detailed information concerning the general requirements applicable to liaisons, different categories of liaisons, eligibility criteria, rights and obligations of liaison organizations is contained in the ISO/IEC Directives, Part 1 and IEC Supplement, Clause 1.17.

To be completed by the applicant organization

Eligibility criteria

<table>
<tr><td colspan="2">The applicant confirms that the organization:</td></tr>
<tr><td>☒</td><td>is not for profit</td></tr>
<tr><td>☐</td><td>is a legal entity
(NOTE: this is a requirement only for Category A or B liaisons)</td></tr>
<tr><td>☐</td><td>is membership-based and open to members worldwide or over a broad region
(NOTE: this is a requirement only for Category A or B liaisons)</td></tr>
<tr><td>☒</td><td>through its activities and membership demonstrates that it has the competence and expertise to contribute to the development of International Standards or the authority to promote their implementation</td></tr>
<tr><td>☒</td><td>has a process for stakeholder engagement and consensus decision-making to develop the input it provides</td></tr>
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Justification for liaison request

The IEEE 802.3 Ethernet Working Group notes that the scope of IEC TC 64/MT 2 references overcurrent protection of conductors and overcurrent protective devices in installations, and that IEC TC 64/MT 2 is considering 'infrastructure cable technologies wiring systems' as one of the potential new topics for the revision of IEC 60364-5-52.

The IEEE 802.3 Ethernet Working Group observes that infrastructure cabling, such as that defined in ISO/IEC 11801-1, does not include the provision of overcurrent protective devices, but that the IEEE 802.3 Power over Ethernet standard includes Overload and Short Circuit current specifications for equipment that powers devices remotely over infrastructure cabling.

In addition, the IEEE 802.3 Ethernet Working Group would like to observe that the addition of equipment that powers devices remotely over infrastructure cabling can occur many years after the initial installation of the infrastructure cabling itself.

For these reasons, the IEEE 802.3 Ethernet Working Group has relevant technical expertise in topics addressed within IEC TC 64/MT 2.

Contact details of liaison representative(s)

Title	First name	Last name	E-mail
Mr	**David**	**Law**	**David_law@ieee.org**

☐ I accept the responsibilities and obligations of liaison organizations, as outlined in the ISO/IEC Directives, Part 1 and IEC Supplement, Clause 1.17, including the IEC Copyright Policy and Implementation Guidelines.	
Name	Date