



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 65/SC 65C: Industrial networks

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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 notes that IEC TC 65/SC 65C is considering a new work item proposal [PNW 65C-1365 ED1](#) 'Industrial networks – Fieldbus specifications – Part 2-100: Physical layer specification and service definition – Type 100 elements' in IEC TC 65/SC 65C/WG 9 Industrial networks. The IEEE 802.3 Ethernet Working Group understands that this work item intends to add 10BASE-T1L and 100BASE-T1L to the IEC 61158-2 Physical Layer specifications. The IEEE 802.3 Ethernet Working Group has originated, and is working on further, Physical Layer and channel specifications applicable to industrial networks, including 10BASE-T1L and 100BASE-T1L, as well as single-pair Power over Ethernet (SPoE), previously referred to as Power over Data Lines (PoDL), and 10BASE-T1M.

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

#### The applicant confirms that the organization:

- is not for profit
- is a legal entity  
(NOTE: this is a requirement only for Category A or B liaisons)
- 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)
- 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
- has a process for stakeholder engagement and consensus decision-making to develop the input it provides

### Justification for liaison request

The task of IEC TC 65/SC 65C/JWG 10 to develop standards for the cabling of industrial networks. This task intersects with the work of the IEEE 802.3 Ethernet Working Group, which defines channel specification for use by Physical Layer (PHY) specifications which are referenced by standards developed in IEC TC 65/SC 65C, such as 10BASE-T1L. The IEEE 802.3 Ethernet Working Group, therefore, possesses relevant technical expertise in the topics addressed by IEC TC 65/SC 65C/JWG 10.

Additionally, establishing a liaison relationship between these two groups can enhance coordination on current and planned work in both organisations. This collaboration will also complement IEEE 802.3's long-standing Category C liaison with ISO/IEC JTC 1/SC 25/WG 3.

#### Contact details of liaison representative(s)

Title	First name	Last name	E-mail

- 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
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