

INTERNATIONAL
STANDARD

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**Information technology —
Telecommunications and information
exchange between systems — Protocol
mappings for the OSI Data Link service**

*Technologies de l'information — Télécommunications et échange
d'information entre systèmes — Applications du protocole au service de
liaison de données OSI*



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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

International Standard ISO/IEC 11575 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

Information technology — Telecommunications and information exchange between systems — Protocol mappings for the OSI Data Link service

1 Scope

This International Standard specifies general principles for the mappings between the OSI Data Link service (ISO/IEC 8886), both connection-mode (CO-DLS) and connectionless-mode (CL-DLS), and standard Data Link protocols, as follows:

- M1: CO-DLS — HDLC X.25 LAPB-compatible DTE procedures, single link procedures (ISO/IEC 7776)
- M2: CO-DLS — HDLC Unbalanced operation Normal response mode Class, UNC (ISO/IEC 3309, ISO/IEC 4335 and ISO/IEC 7809)
- M3: CO-DLS — Logical link control (LLC) Type 2 (ISO/IEC 8802-2)
- M4: CL-DLS — LLC Type 1 (ISO/IEC 8802-2)
- M5: CL-DLS — HDLC Balanced operation Connectionless-mode Class, BCC (ISO/IEC 3309, ISO/IEC 4335 and ISO/IEC 7809)
- M6: CL-DLS — HDLC Unbalanced operation Connectionless-mode Class, UCC (ISO/IEC 3309, ISO/IEC 4335 and ISO/IEC 7809)

This International Standard specifies the detailed mappings M1, M2, M5 and M6; it also specifies the main features of the mappings M3 and M4.

This International Standard does not specify individual implementations or products, nor does it constrain the implementation of Data Link entities and interfaces within an information processing system.

NOTES

- 1 The above designations M1 to M6 for the mappings are used elsewhere in this International Standard.
- 2 The possibility of adding further mappings to the above list in the future is not precluded (for example, to cover Frame Relay protocols).

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO/IEC 3309: 1993, *Information technology — Telecommunications and information exchange between systems — High-level data link control (HDLC) procedures — Frame structure*.

ISO/IEC 4335: 1993, *Information technology — Telecommunications and information exchange between systems — High-level data link control (HDLC) procedures — Elements of procedures*.

ITU-T Recommendation X.200 (1994) | ISO/IEC 7498-1: 1994, *Information technology — Open Systems Interconnection — Basic Reference Model: The basic model*.

ISO/IEC 7776:1995, *Information technology — Telecommunications and information exchange between systems — High-level data link control procedures — Description of the X.25 LAPB-compatible DTE data link procedures*.

ISO/IEC 7809: 1993, *Information technology — Telecommunications and information exchange between systems — High-level data link control (HDLC) procedures — Classes of procedures*.

ISO/IEC 8802-2:1994, *Information technology — Telecommunications and information exchange between systems — Local and metropolitan area networks — Specific requirements — Part 2: Logical link control.*

ISO/IEC 8886:1992, *Information technology — Telecommunications and information exchange between systems — Data Link service definition for Open Systems Interconnection.*

ITU-T Recommendation X.210 (1993) | ISO/IEC 10731:1994, *Information technology — Open Systems Interconnection — Basic Reference Model — Conventions for the definition of OSI services.*