

10171

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**Information technology —
Telecommunications and information
exchange between systems — List of
standard data link layer protocols that
utilize high-level data link control (HDLC)
classes of procedures, list of standard XID
format identifiers, list of standard
mode-setting information field format
identifiers, and list of standard user-defined
parameter set identification values**

*Technologies de l'information — Télécommunications et échange
d'information entre systèmes — Liste de protocoles normalisés pour la
couche liaison de données employant des classes de procédures de
commande de liaison de données à haut niveau (HDLC) et liste
d'identificateurs normalisés de format XID, liste d'identificateurs normalisés
de format du champ d'information pour la programmation de mode et liste
des valeurs d'identification pour les jeux de paramètres normalisés définis
par les utilisateurs*

Reference number
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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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.

In exceptional circumstances, when a technical committee has collected data of a different kind from that which is normally published as an International Standard ("state of the art", for example), it may decide by a simple majority vote of its participating members to publish a Technical Report. A Technical Report is entirely informative in nature and does not have to be reviewed until the data it provides are considered to be no longer valid or useful.

Attention is drawn to the possibility that some of the elements of this Technical Report may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC TR 10171 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*.

This second edition cancels and replaces the first edition (ISO/IEC TR 10171:1994), which has been technically revised.

Introduction

The HDLC classes of procedures have been utilized in a number of International Standards and ITU-T Recommendations as the basis for specific data link layer protocol specifications. This Technical Report provides an indication of the class of procedures and optional functions used in the realization of each designated data link layer protocol. The protocols covered include:

- ISO/IEC 7776
- ISO/IEC 8802-2 LLC type 1
- ISO/IEC 8802-2 LLC type 2
- ITU-T Recommendation G.764
- ITU-T Recommendation Q.921 (I.441) LAPD
- ITU-T Recommendation Q.922 LAPPF
- ITU-T Recommendation T.90
- ITU-T Recommendation V.42
- ITU-T Recommendation V.76
- ITU-T Recommendation V.120
- ITU-T Recommendation X.25 LAPB
- ITU-T Recommendations X.25/X.32
- ITU-T Recommendation X.75 SLP
- Internet Society Request for Comments: 1662
- IEEE TR 1550

Table 1 in this Technical Report lists these protocols, indicates the basic class of procedures used, and identifies the standard optional functions used to realize the specific data link layer protocol. The footnotes following table 1 provide additional explanation concerning the application of the optional function identified. As additional standard usages of the HDLC classes of procedures are identified, this Technical Report will be updated. This Technical Report serves as the repository of record of applications of the HDLC concepts, principles and classes of procedures in the realization of standard data link layer protocols.

Table 2 in this Technical Report serves as the repository of record for the standard XID format identifiers defined in ISO/IEC 13239.

Table 3 in this Technical Report serves as the repository of record for standard mode-setting information field format identifiers.

Table 4 in this Technical Report serves as the repository of record for the list of standard user-defined parameter set identification values defined in ISO/IEC 13239.