
**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 and list of
standardized XID format identifiers and
private 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 et jeu privé de paramètres de
valeurs d'identification*



Reference number
ISO/IEC TR 10171:1994(E)

AVA Documents
Document Sharing Hub

Contents

	Page
Foreword.....	iii
Introduction.....	iv
1 Scope.....	1
2 References	1
3 Abbreviations	2
4 List of Data Link Layer protocols using HDLC classes of procedures	2
5 Standardized XID information field format identifiers.....	2
6 Parameter identifiers for private parameter negotiation subfields.....	2

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.

The main task of technical committees is to prepare International Standards. In exceptional circumstances a technical committee may propose the publication of a Technical Report of one of the following types:

- type 1, when the required support cannot be obtained for the publication of an International Standard, despite repeated efforts;
- type 2, when the subject is still under technical development or where for any other reason there is the future but not immediate possibility of an agreement on an International Standard;
- type 3, 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).

Technical Reports of types 1 and 2 are subject to review within three years of publication, to decide whether they can be transformed into International Standards. Technical Reports of type 3 do not necessarily have to be reviewed until the data they provide are considered to be no longer valid or useful.

ISO/IEC TR 10171, which is a Technical Report of type 3, was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*.

Introduction

The HDLC classes of procedures have been utilized in a number of International Standards and ITU-T (formally CCITT) 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 and type 2
- ITU-T Recommendation G.764
- ITU-T Recommendation Q.921 (I.441) LAPD
- ITU-T Recommendation T.90
- ITU-T Recommendation V.42
- ITU-T Recommendation V.120
- ITU-T Recommendations X.25/X.32
- ITU-T Recommendation X.25 LAPB
- ITU-T Recommendation X.75 SLP

Table 1 in clause 4 of 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. The Technical Report will serve 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.

This Technical Report also serves as the repository of record for the XID format identifiers and private parameter set identifiers defined in ISO/IEC 8885, as amended.