

**Information
technology —
Telecommunications
and information
exchange between
systems —
High-level data link
control (HDLC)
procedures —
General purpose XID
frame information field
content and format**

ICS 35.200

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Information Systems Technology Standards Policy Committee (IST/-) to Technical Committee IST/6, upon which the following bodies were represented:

- British Computer Society
- British Telecommunications plc
- CCTA (the Government Centre for Information Systems)
- Digital Equipment Co. Ltd.
- IBM United Kingdom Ltd.
- Information Systems Committee of the Universities Funding Council
- Institution of Electrical Engineers
- International Computers Ltd.
- Logica UK Ltd.
- Ministry of Defence
- Rank Xerox Ltd.
- Swift Project Consortium

This British Standard, having been prepared under the direction of the Information Systems Technology Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 15 August 1994

© BSI 04-2000

First published December 1991
Second edition August 1994

The following BSI references relate to the work on this standard:
Committee reference IST/6
Draft for comment 90/65972 DC

ISBN 0 580 23456 8

Amendments issued since publication

Amd. No.	Date	Comments
9757	December 1997	Indicated in the national foreword

Contents

	Page
Committees responsible	Inside front cover
National foreword	ii
Foreword	iii
Text of ISO/IEC 8885	1

National foreword

This British Standard reproduces verbatim ISO/IEC 8885:1993 (incorporating Amendment 9:1995) and implements it as the UK national standard. It supersedes BS ISO/IEC 8885:1991 and Amendments 3 and 4 (1992) which are withdrawn.

This British Standard is published under the direction of the Information Systems Technology Standards Policy Committee whose Technical Committee IST/6 has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international committee any enquiries on interpretation, or proposals for change, and keep UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

NOTE International and European Standards, as well as overseas standards are available from Customer Services, BSI, 389 Chiswick High Road, London, W4 4AL.

With the incorporation of Amendment No. 1:1997 to BS ISO/IEC 8885:1993, text has been changed in Table 3.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the ISO/IEC title page, pages ii to iv, pages 1 to 13 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

**Information technology —
Telecommunications and information
exchange between systems — High-level
data link control (HDLC) procedures —
General purpose XID frame information
field content and format**

*Technologies de l'information — Télécommunications et échange
d'informations entre systèmes — Procédures de commande de liaison de
données à haut niveau (HDLC) — Format et contenu du champ
d'information de la trame XID pour application générale*



Reference number
ISO/IEC 8885:1993(E)

Contents

	Page
Foreword	iii
Introduction	1
1 Scope	1
2 Normative references	1
3 Definitions	2
4 XID frame information field structure	3
5 XID frame information field encoding	5
6 Definition and encoding of data link layer subfield parameter fields	7
7 Single-frame exchange negotiation process	10
8 Frame check sequence negotiation rules	11
Annex A (informative) Illustrative examples of FCS negotiation	12
Figure 1 — General structure of the XID frame	3
Figure 2 — Data link layer subfield structure	3
Figure 3 — A typical data link layer subfield	4
Figure 4 — User data subfield	4
Figure 5 — XID information field structure	5
Figure 6 — Format identifier subfield encoding	5
Figure 7 — Data link layer subfield encodings	5
Figure 8 — User data subfield encoding	6
Table 1 — Data link layer subfield parameter field elements	7
Table 2 — Address resolution data link layer subfield parameter field elements	8
Table 3 — Parameter negotiation data link layer subfield parameter field elements	8
Table 4 — Multilink parameter negotiation data link layer subfield	9
Table 5 — Private parameter negotiation data link layer subfield parameter field elements	9

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 8885 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*.

This third edition cancels and replaces the second edition (ISO/IEC 8885:1991), and incorporates ISO/IEC 8885 amendments 3, 4 and 5.

Annex A of this International Standard is for information only.