INTERNATIONAL STANDARD

ISO/IEC 7809

Second edition
1991-09-15

AMENDMENT 6
1992-01-15

Information technology — Telecommunications and information exchange between systems — High-level data link control (HDLC) procedures — Classes of procedures

AMENDMENT 6: Extended transparency options for start/stop transmission

Technologies de l'information — Télécommunications et échange d'informations entre systèmes — Procédures de commande de liaison de données à haut niveau (HDLC) — Classes de procédures

AMENDEMENT 6: Options de transparence étendue pour la transmission arythmique

Reference number
ISO/IEC 7809 : 1991/Amd.6 : 1992 (E)

Foreword

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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.

Amendment 6 to International Standard ISO/IEC 7809 : 1991 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

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Printed in Switzerland

Introduction

This Amendment to ISO/IEC 7809 : 1991 indicates additional changes that have been agreed since the approval of ISO/IEC 7809.

This Amendment indicates the options that are added to ISO/IEC 7809 to reflect the two extended transparency procedures that provide for 1) flow-control transparency and 2) control-character octet transparency, for use with the start/stop transmission optional function.

Information technology — Telecommunications and information exchange between systems — High-level data link control (HDLC) procedures — Classes of procedures

AMENDMENT 6: Extended transparency options for start/stop transmission

1 Scope

This amendment to ISO/IEC 7809 : 1991 expands Optional Function 15 — Start/Stop Transmission, to consist of three options: start/stop transmission with basic transparency; start/stop transmission with basic transparency and flow control transparency; and start/stop transmission with basic transparency and control character octet transparency.

2 Specific changes to ISO/IEC 7809

a) In clause **2 Normative Reference** -- add the following item:

ISO/IEC 646 : 1991, *Information technology — ISO 7-bit coded character set for information interchange*

b) In Table 1 - Optional functions, Option 15 - replace with the following:

15.1	Provides for start/stop transmission with basic transparency.	Use start/stop transmission with basic transparency instead of synchronous transmission.
15.2	Provides for start/stop transmission with basic transparency and flow-control transparency.	Use start/stop transmission with basic transparency and flow-control transparency instead of synchronous transmission.
15.3	Provides for start/stop transmission with basic transparency and control-character octet transparency.	Use start/stop transmission with basic transparency and control-character octet transparency instead of synchronous transmission.

c) In Figure 5 - HDLC classes of procedures, Optional function 15 - replace the content of the box with the following:

For start/stop transmission

15.1 Use start/stop transmission with basic transparency instead of synchronous transmission.

15.2 Use start/stop transmission with basic transparency and flow-control transparency instead of synchronous transmission.

15.3 Use start/stop transmission with basic transparency and control-character octet transparency instead of synchronous transmission.

d) In **6.1.5, Option 15 - start/stop transmission** -- insert the following sentence between the existing second and third sentences:

"The three levels of transparency available are as indicated below."

e) In **6.1.5, Option 15 - start/stop transmission** -- add the following after the end of the clause:

6.15.1 Start/stop transmission with basic transparency (Option 15.1).

The basic transparency option provides transparency processing for the flags and the control escape octets.

6.15.2 Start/stop transmission with basic transparency and flow-control transparency (Option 15.2).

In addition to the basic transparency, the flow control transparency option provides transparency processing for the DC1/XON and DC3/XOFF control characters defined in ISO 646. This has the effect of assuring that the octet stream does not contain values which could be interpreted by intermediate equipment as flow control characters.

6.15.3 Start/stop transmission with basic transparency and control-character octet transparency (Option 15.3).

In addition to the basic transparency, the control-character octet transparency option provides transparency processing for all octets in which both the 6th and 7th bits are "0" as well as for the DELETE character octet. This has the effect of assuring that the octet stream does not contain values which could be interpreted by intermediate equipment as the control characters or DELETE character defined by ISO 646.