JTC 1

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AMENDMENT 5
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Information technology — Telecommunications and information exchange between systems — High-level data link control (HDLC) procedures — Classes of procedures

AMENDMENT 5: Connectionless classes of procedures

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

AMENDEMENT 5: Classes de procédure en mode sans connexion

Reference number
ISO/IEC 7809 : 1991/Amd.5 : 1992 (E)

Foreword

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Amendment 5 to International Standard ISO/IEC 7809 : 1991 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

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Introduction

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

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

Amendment 5:
Connectionless classes of procedures

1 Scope

This Amendment to ISO/IEC 7809:1991 specifies the basic repertoire of commands and responses required to support two classes of connectionless-mode operation — Unbalanced Connectionless Class of Procedures, for use in point-to-point and multipoint configurations, and Balanced Connectionless Class of Procedures, for use in point-to-point configurations only. This Amendment indicates those optional functions that are applicable to each connectionless class of procedures. This Amendment also provides a brief description of the operating procedures for each connectionless class of procedures.

2 Specific changes to ISO/IEC 7809

The changes are listed in ascending order by clause. The specific changes are as follows:

a) In Introduction, 1st paragraph, last sentence - change "unbalanced and balanced" to "unbalanced, balanced and connectionless"; and change "primary, secondary, or combined" to "primary, secondary, combined, control, tributary, or peer".

b) In Introduction, 2nd paragraph, 1st sentence - change "three" to "five"; and change "two unbalanced and one balanced" to "two unbalanced, one balanced, and two connectionless".

c) In Introduction - insert 4th and 5th paragraphs as follows:

"The unbalanced connectionless class applies to point-to-point configurations over either dedicated or switched data transmission facilities, or to multipoint configurations over dedicated data transmission facilities. A characteristic of the unbalanced connectionless class is the existence of a single control station at one end of the data link plus one or more tributary stations at the other end(s) of the data link. The control station is responsible for determining when a tributary station is permitted to send. Neither the control station nor the tributary station(s) support any form of connection establishment/termination procedures, flow control procedures, data transfer acknowledgement procedures, or error recovery procedures, hence the designation "connectionless" class of procedures.

The balanced connectionless class applies to point-to-point configurations over either dedicated or switched data transmission facilities. A characteristic of the balanced connectionless class is the existence of two data stations, called peer stations, on a data link, that are each independently in control of when they can send. Neither peer station supports any form of connection establishment/termination procedures, flow control procedures, data transfer acknowledgement procedures, or error recovery procedures, hence the designation "connectionless" class of procedures.".

d) In clause 1, 1st paragraph - change "and" to ","; and insert ", and the HDLC connectionless classes of procedures" after "balanced class of procedures".

e) In clause 1, 3rd paragraph - insert the following sentences after the 2nd sentence:

"For the unbalanced connectionless class, the data link consists of a control station plus one or more tributary stations and operates in the unbalanced connectionless-mode in a point-to-point or