INTERNATIONAL STANDARD

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AMENDMENT 9
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Information technology — Telecommunications and information exchange between systems — High-level data link control (HDLC) procedures — General purpose XID frame information field content and format

AMENDMENT 9: Extension of HDLC sequence number modulus beyond 128

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

AMENDEMENT 9: Extension du module du numéro de séquence HDLC au-delà de 128

Reference number
ISO/IEC 885:1993/Amd. 9:1995(E)

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.

Amendment 9 to International Standard ISO/IEC 8885:1993 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*.

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Introduction

This amendment increases the modulus number (i.e. the sequence number) in steps up to a maximum of 2 147 483 648 which can be represented in 31 bits. This is done by the introduction of a new "Set Mode" command that can be used to negotiate or indicate the modulus in the absence of or to override a default value. This uses an optional information field in the “Set Mode “ command.

This amendment also introduces the information field in mode-setting commands/responses.

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Table 3

In table 3, replace the section under "HDLC optional functions" by the following:

Name	PI	PL	Parameter field element	Code Type	Bit No.	Value
HDLC optional functions	3	5	1 Reserved		1	0
			2 REJ cmd/resp	E	2	0/1
			3A SREJ cmd/resp single frame	E	3	0/1
			3B SREJ cmd/resp multiple frame	E	22	0/1
			4 UI cmd/resp	E	4	0/1
			5 SIM cmd/RIM resp	E	5	0/1
			6 UP cmd	E	6	0/1
			7A Basic address	E	7	0/1
			7B Extended address	E	8	0/1
			8 Delete resp I	E	9	0/1
			9 Delete cmd I	E	10	0/1
			10A Modulo 8	E	11	0/1
			10B Modulo 128	E	12	0/1
			11 RSET cmd	E	13	0/1
			12 TEST cmd/resp	E	14	0/1
			13 RD resp	E	15	0/1
			14A 16-bit FCS	E	16	0/1
			14B 32-bit FCS	E	17	0/1
			15A Synchronous transmission	E	18	0/1
			15B Start/stop transmission with basic transparency	E	19	0/1
			15C Start/stop transmission with basic and flow control transparency	E	20	0/1
			15D Start/stop transmission with basic and control-character octet transparency	E	21	0/1
			Reserved		23 to 24	0
			10.2 Modulo 32 768	E	25	0/1
			10.3 Modulo 2 147 483 648	E	26	0/1
			17. Set Mode command with an optional information field to be used in place of SXXM or SXXME	E	27	0/1
			18. UA and DM responses, and the DISC command with an optional information field	E	28	0/1
			19. SABM, SNRM, SARM, SABME, SNRME, SARME command with an optional information field	E	29	0/1
			Reserved		30-40	0

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