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Part 2 : Logical link control

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International Standard ISO 8802-2 : 1989

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75% approval by the member bodies voting.

In 1985, ANSI/IEEE Std 802.2-1985 was adopted by ISO Technical Committee 97, *Information processing systems*, as draft International Standard ISO 8802-2. Following the procedures described above, the Standard was subsequently approved by ISO in the form of this new edition, which is published as International Standard ISO 8802-2 : 1989.

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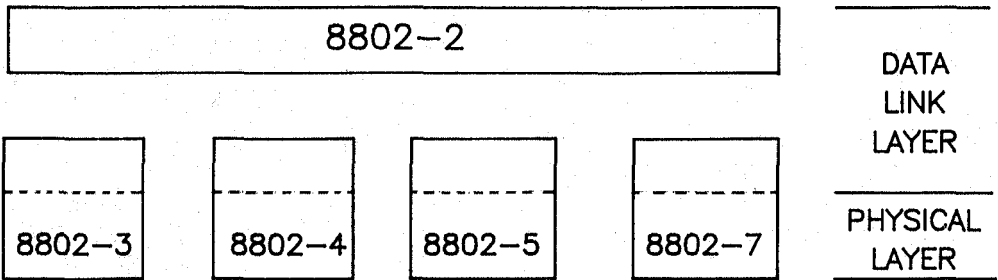
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International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland

Foreword to International Standard ISO 8802-2 : 1989

This standard is part of a family of standards for Local Area Networks (LANs). The relationship between this standard and the other members of the family is shown below. (The numbers in the figure refer to ISO Standard numbers.)



This family of standards deals with the physical and data link layers as defined by the ISO Open Systems Interconnection Reference Model (ISO 7498 : 1984). The access standards define four types of medium access technologies and associated physical media, each appropriate for particular applications or system objectives. The standards defining these technologies are:

- (1) ISO 8802-3 [ANSI/IEEE Std 802.3-1988], a bus utilizing CSMA/CD as the access method,
- (2) ISO 8802-4 [ANSI/IEEE Std 802.4-1985], a bus utilizing token passing as the access method,
- (3) ISO 8802-5 [IEEE Std 802.5-1989], a ring utilizing token passing as the access method,
- (4) ISO 8802-7, a ring utilizing slotted ring as the access method.

ISO 8802-2 [IEEE Std 802.2-1989], Logical Link Control protocol, is used in conjunction with the medium access standards.

The reader of this document is urged to become familiar with the complete family of standards.

The main body of this standard serves for both the ISO 8802-2 : 1989 and IEEE 802.2-1989 standards. ISO and IEEE each have unique foreword sections.

IEEE Std 802.2-1989

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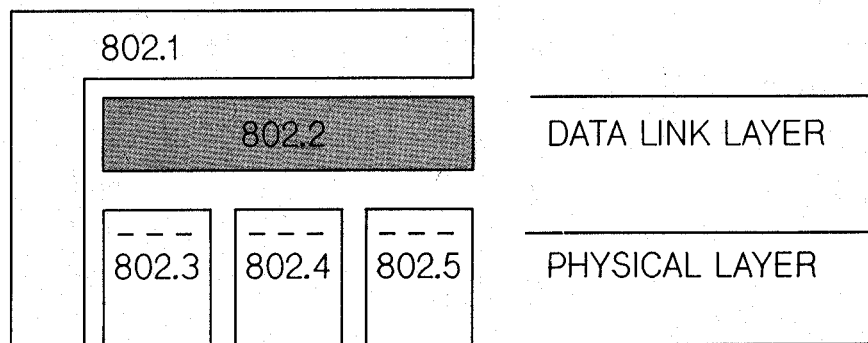
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(This Foreword is not a part of ISO 8802-2 : 1989 or of IEEE Std 802.2-1989.)

This standard is part of a family of standards for Local Area Networks (LANs). The relationship between this standard and other members of the family is shown below. (The numbers in the figure refer to IEEE Standard numbers.)



This family of standards deals with the physical and data link layers as defined by the ISO Open Systems Interconnection Reference Model. The access standards define three types of medium access technologies and associated physical media, each appropriate for particular applications or system objectives. The standards defining these technologies are:

- (1) ANSI/IEEE Std 802.3-1988 [ISO 8802-3], a bus utilizing CSMA/CD as the access method,
- (2) ANSI/IEEE Std 802.4-1985 [ISO 8802-4], a bus utilizing token passing as the access method,
- (3) IEEE Std 802.5-1989 [ISO 8802-5], a ring utilizing token passing as the access method.

IEEE Std 802.2-1989 [ISO 8802-2], the Logical Link Control standard, is used in conjunction with the medium access standards.

IEEE P802.1 describes the relationship among these standards and their relationship to the ISO Open Systems Interconnection Reference Model in more detail. This companion document also will contain networking management standards and information on internetworking.

The reader of this standard is urged to become familiar with the complete family of standards.

At the time of approval of this standard in 1983, the following members were participants of IEEE Project 802 Working Group:

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Om Agrawal	Maris Graube	Juan Pimentel
Phil Arneth	Ed Harada	Lavern Pope
Jeff Bobzin	Lo Hsieh	Dave Potter
Mark Bauer	Karen Hsing	Dennis Quy
Le Biu	Kevin Hughes	John Rance
Clyde Boenke	Marco Hurtado	Dan Ratner
Bob Bowen	Bob Husak	Richard Read
Bob Bridge*	Dittmar Janetzky	Ted Rebenko
Chuck Brill	Ross Jaibaji	John Ricketson
Wayne Brodd*	George Jelatis	Edouard Rocher
Werner Bux	Gabor Kardos	Rob Rosenthal*
Jim Campbell	Peggy Karp*	Chip Schnarel
Tony Capel	Kristin Kocan	Walter Schreuer
Ron Cates	Zak Kong*	Gerard Segarra
Rao Cherukuri	Sy Korowitz	Dennis Sosnoski
Po Chen*	George Koshy	Robert C. Smith
Jade Chien	Don Kotas	Mark Stahlman
Mike Clader	Tony Kozlik	Steve Stearns
Jerry Clancy*	Mike Kryskow*	Garry Stephens*
Rich Collins	Dave Laffitte	Mark Steiglitz*
Steve Cooper	Terry Lawell*	Kathleen Sturgis
Bob Crowder*	Ron Leuchs	Bob Stover*
Kirit Davé	Peter Lin	Bart Stuck
John Davidson	Jim Lindgren	Dave Sweeton*
Em Delahostria*	Laurie Lindsey*	Dan Sze*
Jan Dolphin	Bill Livingston*	Vic Tarassov*
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Bill Durrenberger	Don J. Loughry	Fouad Tobagi
Rich Fabbri	Bruce Loyer	Jean-Marie Tourret
Eldon Feist*	Jerry Lurtz	Bo Viklund
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Arie Goldberg	Bill Northup	Ping Wu
Pat Gonia	Brian O'Neil*	Esin Ulug
Gordon Griffiths	Kul Padda	Hiroshi Yoshida
Bob Grow	Mahendra Patel	Hank Zannini
	Tom Phinney*	

* Principal contributors to Project 802.2

Additional individuals who made significant contributions were the following:

Don Andrews
Phil Arst
Ron Crane
Walt Elden
Ingrid Fromm
Atul Garg
Bryan Hoover

Andrew Huang
Hal Keen
Tony Lauck
Andy Luque
Dan Maltbie
Jane Munn

Wendell Nakamine
Liston Neely
Lee Neitzel
Dan Pitt
Robert Printis
Stephen Soto
Joshua Weiss

The following persons were on the balloting committee that approved this document for submission to the IEEE Standards Board:

William B. Adams
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John W. Fendrich
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D. G. Gan
Patrick Gonla
Ambuj Goyal
Maris Graube
J. Scott Haugdahl
Paul L. Hutton
Raj Jain
David M. Kollm
Anthony B. Lake

Mike Lawler
Jaiyong Lee
F. C. Lim
R. S. Little
William D. Livingston
Donald C. Loughry
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M. Ravindranath Nayak
Arne A. Nilsson
Charles Oestereicher
Young Oh
Udo W. Pooch
John P. Riganati
Gary S. Robinson

Robert Rosenthal
Floyd Ross
S. I. Samoylenko
Julio Sanz Gonzalez
Norman Schneidewind
D. A. Sheppard
John Spragins
Carel M. Stillebroer
Fred Strauss
Peter Sugar
Efsthathios D. Sykas
Daniel Sze
Nathan Tobol
L. David Umbaugh
Thomas A. Varetoni
James Vorhies
Don Weir
Earl J. Whitaker
George B. Wright
Oren Yuen

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Information processing systems— Local area networks—

Part 2: Logical link control

1. Introduction

1.1 Scope and Purpose. This International Standard is one of a set of international standards produced to facilitate the interconnection of computers and terminals on a Local Area Network (LAN). It is related to the other international standards by the Reference Model for Open Systems Interconnection.

NOTE: The exact relationship of the layers described in this International Standard to the layers defined by the OSI Reference Model is under study.

This International Standard describes the functions, features, protocol, and services of the Logical Link Control (LLC) sublayer in the ISO 8802 Local Area Network Protocol. The LLC sublayer constitutes the top sublayer in the data link layer (see Fig 1-1) and is common to the various medium access methods that are defined and supported by the ISO 8802 activity. Separate international standards describe each medium access method individually and indicate the additional features and functions that are provided by the Medium

Fig 1-1
Relationship to LAN Reference Model

