

ISO

International Organization for Standardization



IEC

International Electrotechnical Commission



Patent Statement and Licensing Declaration

This declaration does not represent an implied license grant

Please return to **each** of the two organizations:

Secretary-General
International Organization for Standardization
1, rue de Varembé
CH-1211 Geneva 20
Switzerland
Fax: +41 22 733 34 30

General Secretary
International Electrotechnical Commission
3, rue de Varembé
CH-1211 Geneva 20
Switzerland
Fax: +41 22 919 03 01

Patent Holder/Organization:

Legal Name IBM Corporation

Contact for license application:

Name & Department Brian Hinman
Vice President Licensing Intellectual Property Systems and

Address North Castle Drive
Armonk, NY, 10504

Tel. 1-914-765-4359

Fax 1-914-765-4420

E-mail hinman@us.ibm.com

URL (optional) WWW.IBM.COM

ISO/IEC International Standard:

Number ISO/IEC/JTC1 SC25 – FDIS-14165-251

Title Information Technology – Fibre Channel - Framing and Signalling
Interface (FC-FS)

Licensing declaration

The Patent Holder believes that it holds granted patents and/or pending applications, the use of which would be required to implement the above ISO/IEC International Standard and hereby declares, in accordance with the ISO/IEC Patent Policy (ISO/IEC Directives), that (check one box only).

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3. The Patent Holder is unwilling to grant licenses in accordance with provisions of either 1 or 2 above. In this case, the following information must be provided as part of this declaration:

- patent registration/application number;
- an indication of which portions of the ISO/IEC International Standard are affected;
- a description of the patent claims covering the ISO/IEC International Standard.

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Signature

Organization	<u>IBM Corporation</u>
Name of authorized person	<u>Dr. W. Charlton Adams, Jr.</u> <u>wcadams@us.ibm.com / 914-765-4382</u>
Title of authorized person	<u>Program Director Standards & Open Source</u>
Signature	_____
Place, Date	<u>Armonk, NY</u>

Patent Information (desired but not required)			
No.	Registration Number/ Country	Title/ Inventor	Status [granted/ pending]
1	4,486,739 / US	Byte oriented DC balanced (0,4) 8B/10B partitioned block transmission code Franaszek; Peter A. (Katonah, NY), Widmer; Albert X. (Katonah, NY)	December 4, 1984
2	4,995,056 / US	System and method for data communications Fogg, Jr.; Richard G. (Austin, TX), Mathis; Joseph R. (Georgetown, TX), Zeitler, Jr.; Carl (Austin, TX)	February 19, 1991
3	5,136,410 / US	Optical fiber link control safety system Heiling; Gerald M. (Pine Island, MN), Knodel; David A. (Rochester, MN), Peterson; Michael J. (Rochester, MN), Schuelke; Brian A. (Rochester, MN), Siljenberg; David W. (Byron, MN), Soderstrom; Ronald L. (Rochester, MN), Trnka; John T. (Rochester, MN)	August 4, 1992
4	5,151,977 / US	Managing a serial link in an input/output system which indicates link status by continuous sequences of characters between data frames Fredericks; Kenneth J. (Poughkeepsie, NY), Lynch; Kenneth R. (Rhinebeck, NY)	September 29, 1992
5	5,260,933 / US	Acknowledgement protocol for serial data network with out-of-order delivery Rouse; Gerald L	November 9, 1993
6	US2003/0103504A1	Method and Apparatus for obtaining multiple port addresses by a fiber channel from a network fabric Dugan, Robert J. (Hyde Park, NY); Frazier, Giles R. (Austin, Texas)	Pending Published December 3, 2001
7	US2003/0135620A1	Method and apparatus for a non-disruptive recovery of a single partition in a multipartitioned data processing system Dugan, Robert J. (Hyde Park, NY); Frazier, Giles R. (Austin, Texas)	Pending Published July 17, 2003
8	Other Issued Patents & Published Applications	IBM is currently reviewing other patents and patent applications in its portfolio. Upon completion of this review IBM will promptly advise ISO/IEC/JTC1 of any additional claims that may be essential to the standard.	October 12, 2006