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Information technology — Telecommunications and information exchange between systems — Local and metropolitan area networks — Technical reports and guidelines —

Part 2:

Standard Group MAC Addresses

*Technologies de l'information — Télécommunications et échange
d'information entre systèmes — Réseaux locaux et métropolitains —
Rapports techniques et lignes directrices —*

Partie 2: Adresses du groupe MAC normalisées



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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.

The main task of technical committees is to prepare International Standards, but in exceptional circumstances a technical committee may propose the publication of a Technical Report of one of the following types:

- type 1, when the required support cannot be obtained for the publication of an International Standard, despite repeated efforts;
- type 2, when the subject is still under technical development or where for any other reason there is the future but not immediate possibility of an agreement on an International Standard;
- type 3, when a technical committee has collected data of a different kind from that which is normally published as an International Standard ('state of the art', for example).

Technical Reports of types 1 and 2 are subject to review within three years of publication, to decide whether they can be transformed into International Standards. Technical Reports of type 3 do not necessarily have to be reviewed until the data they provide are considered to be no longer valid or useful.

ISO/IEC TR 11802-2, which is a Technical Report of type 3, was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*.

This second edition cancels and replaces the first edition (ISO/IEC TR 11802:1995), which has been technically revised.

ISO/IEC 11802 consists of the following parts, under the general title *Information technology — Telecommunications and information exchange between systems — Local and metropolitan area networks — Technical reports and guidelines*:

- *Part 1: The structure and coding of Logical Link Control addresses in Local Area Networks* [Technical Report]
- *Part 2: Standard Group MAC Addresses* [Technical Report]
- *Part 4: Token ring access method and physical layer specifications — Fibre optic station attachment*

Introduction

The Standards for LANs generally comprise the physical layer, the medium access control (MAC) sublayer, and the logical link control (LLC) sublayer. In OSI terminology, the MAC and LLC sublayers are considered to be sublayers of the OSI Data Link layer. Both the MAC and LLC sublayers contain fields for addressing.

A Universally Administered Address Block has been allocated for the assignment of Group MAC Addresses for use in Standards. This Technical Report contains a description of the MAC addressing conventions, the criteria which will be used by ISO/IEC when considering a request for an assignment, and a record of assignments.

This Technical Report will be kept up to date by ISO/IEC JTC 1 as new assignments are made.

Information technology — Telecommunications and information exchange between systems — Local and metropolitan area networks — Technical reports and guidelines —

Part 2: Standard Group MAC Addresses

1 Scope

This Technical Report provides:

- a) A description of the Binary and Hexadecimal Representation of ISO/IEC 8802 LAN MAC addresses.
- b) A description of the sub-division of the Universally Administered Standard Group MAC Address Block into: ISO/IEC 10038 MAC Bridge Filtered MAC Group Addresses and Standard MAC Group Addresses.
- c) The criteria for the manner in which new addresses are approved for entry into this TR.
- d) A record of approved assignments from the Standard Group MAC Address Block and a record of Group MAC Addresses in use in standards which are not part of the Standard Group MAC Address Block, for example ISO 9542.

2 References

ISO/IEC 8802-5:1995, *Information technology — Telecommunications and information exchange between systems — Local and metropolitan area networks — Specific requirements — Part 5: Token ring access method and physical layer specifications.*

ISO/IEC 9542:—¹⁾, *Information technology — Telecommunications and information exchange between systems — End system to Intermediate system routing exchange protocol for use in conjunction with the Protocol for providing the connectionless-mode network service (ISO/IEC 8473).*

ISO/IEC 10038 (to be re-numbered as ISO/IEC 15802-3):1993, *Information technology — Telecommunications and information exchange between systems — Local area networks — Media access control (MAC) bridges.*

ISO/IEC 10039 (to be re-numbered as ISO/IEC 15802-1):1991, *Information technology — Open Systems Interconnection — Local area networks — Medium Access Control (MAC) service definition.*

1) To be published. (Revision of ISO 9542:1988)