
**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 MAC de groupe normalisé

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Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. 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.

In exceptional circumstances, the joint 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;
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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 sixth edition cancels and replaces the fifth edition (ISO/IEC TR 11802-2:2002), which has been technically revised.

ISO/IEC TR 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]*

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 International Standards. This Technical Report contains a description of the MAC addressing conventions and a reference to the url that contains the criteria, which will be used when considering a request for an assignment, and a record of assignments. This website is managed by the august IEEE-SA Registration authority.

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Part 2: Standard Group MAC Addresses

1 Scope

This Technical Report provides:

- A description of the Binary and Hexadecimal Representation of ISO/IEC 8802 LAN MAC addresses.
- 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.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 8802-5, *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, *Information processing systems — 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 15802-3, *Information technology — Telecommunications and information exchange between systems — Local and metropolitan area networks — Common specifications — Part 3: Media access control (MAC) bridges*

ISO/IEC 10039, *Information technology — Open systems interconnection — Local area networks — Medium Access Control (MAC) service definition*

3 Abbreviations

The following abbreviations are used in this Technical Report

MAC	Medium Access Control
LAN	Local Area Network
LLC	Logical Link Control
ANSI	American National Standards Institute