



SLOVENSKI STANDARD SIST ETS 300 212 E1:2003

01-december-2003

Ca fYyb]j]X]]fB5LËJYYa Yglbc`ca fYy`YfA 5 BLË`GdYWZ_ UWYUd`Ugh`nUXcglcd
Xc`a YX]Yj]b`Zn] bYd`Ugh]

Network Aspects (NA); Metropolitan Area Network (MAN); Media access control layer
and physical layer specification

iteh STANDARD PREVIEW
(standards.iteh.ai)

Ta slovenski standard je istoveten z: ^{SIST ETS 300 212 E1:2003} **ETS 300 212 Edition 1**
<https://standards.iteh.ai/catalog/standards/sist/281c9548-de88-4d3a-9ab3-a499ab6a46d5/sist-ets-300-212-e1-2003>

ICS:

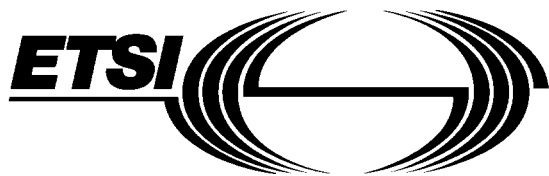
35.110 Omreževanje Networking

SIST ETS 300 212 E1:2003 **en**

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST ETS 300 212 E1:2003

<https://standards.iteh.ai/catalog/standards/sist/281c9348-de88-4d3a-9ab3-a499ab6a46d5/sist-ets-300-212-e1-2003>



EUROPEAN
TELECOMMUNICATION
STANDARD

ETS 300 212

December 1992

Source: ETSI TC-NA

Reference: DE/NA-053023

ICS: 33.040

Key words: Network, access, MAN

**Network Aspects (NA);
Metropolitan Area Network (MAN)
Media access control layer and
physical layer specification**

<https://standards.iteh.ai/catalog/standards/sist/281c9348-de88-4d3a-9ab3->

ETSI

European Telecommunications Standards Institute

ETSI Secretariat

Postal address: F-06921 Sophia Antipolis CEDEX - FRANCE

Office address: 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE

X.400: c=fr, a=atlas, p=etsi, s=secretariat - **Internet:** secretariat@etsi.fr

Tel.: +33 92 94 42 00 - Fax: +33 93 65 47 16

Copyright Notification: No part may be reproduced except as authorized by written permission. The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 1992. All rights reserved.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST ETS 300 212 E1:2003](https://standards.iteh.ai/catalog/standards/sist/281c9348-de88-4d3a-9ab3-a499ab6a46d5/sist-ets-300-212-e1-2003)

<https://standards.iteh.ai/catalog/standards/sist/281c9348-de88-4d3a-9ab3-a499ab6a46d5/sist-ets-300-212-e1-2003>

Contents

Foreword	5
1 Scope	7
2 Normative references	7
3 Basic media access control	7
4 Physical layer convergence procedures	8
History	9

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST ETS 300 212 E1:2003](https://standards.iteh.ai/catalog/standards/sist/281c9348-de88-4d3a-9ab3-a499ab6a46d5/sist-ets-300-212-e1-2003)

<https://standards.iteh.ai/catalog/standards/sist/281c9348-de88-4d3a-9ab3-a499ab6a46d5/sist-ets-300-212-e1-2003>

Blank page

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST ETS 300 212 E1:2003](https://standards.iteh.ai/catalog/standards/sist/281c9348-de88-4d3a-9ab3-a499ab6a46d5/sist-ets-300-212-e1-2003)

<https://standards.iteh.ai/catalog/standards/sist/281c9348-de88-4d3a-9ab3-a499ab6a46d5/sist-ets-300-212-e1-2003>

Foreword

This European Telecommunication Standard (ETS) has been prepared by the Network Aspects (NA) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This ETS details the Media Access Control (MAC) and physical layer convergence procedure for a European Metropolitan Area Network (MAN) based on the Distributed Queue Dual Bus (DQDB) access method as defined in IEEE Standard 802.6 [1].

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST ETS 300 212 E1:2003](https://standards.iteh.ai/catalog/standards/sist/281c9348-de88-4d3a-9ab3-a499ab6a46d5/sist-ets-300-212-e1-2003)

<https://standards.iteh.ai/catalog/standards/sist/281c9348-de88-4d3a-9ab3-a499ab6a46d5/sist-ets-300-212-e1-2003>

Blank page

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST ETS 300 212 E1:2003](https://standards.iteh.ai/catalog/standards/sist/281c9348-de88-4d3a-9ab3-a499ab6a46d5/sist-ets-300-212-e1-2003)

<https://standards.iteh.ai/catalog/standards/sist/281c9348-de88-4d3a-9ab3-a499ab6a46d5/sist-ets-300-212-e1-2003>

1 Scope

This European Telecommunication Standard (ETS) is an introduction to the series of ETSs specifying the Media Access Control (MAC) layer and the physical layer for a European Metropolitan Area Network (MAN) using the Distributed Queue Dual Bus (DQDB) technique for access to the transmission medium.

Methods of testing will be the subject of separate arrangements.

2 Normative references

This ETS incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to, or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] IEEE Standard 802.6 (1990): "Distributed Queue Dual Bus (DQDB) Subnetwork of a Metropolitan Area Network (MAN)".
- [2] ETS 300 213 (1992): "Network Aspects (NA); Metropolitan Area Network (MAN) Physical layer convergence procedure for 2,048 Mbit/s".
- [3] ETS 300 214 (1992): "Network Aspects (NA); Metropolitan Area Network (MAN) Physical layer convergence procedure for 34,368 Mbit/s".
- [4] ETS 300 215 (1992): "Network Aspects (NA); Metropolitan Area Network (MAN) Physical layer convergence procedure for 139,264 Mbit/s".
- [5] ETS 300 216 (1992): "Network Aspects (NA); Metropolitan Area Network (MAN) Physical layer convergence procedure for 155,520 Mbit/s".

3 Basic media access control protocol

The basic MAC protocol is specified in IEEE Standard 802.6 [1]. This IEEE Standard has the following sections, which are given here for information.

1. Introduction.
2. Overview.
3. DQDB Layer Service Definition.
4. Physical Layer Service Definition.
5. DQDB Node Functional Description.
6. DQDB Layer Protocol Data Unit Formats.
7. DQDB Layer Facilities.
8. DQDB Layer Operation.
9. DQDB Layer Management Interface.
10. DQDB Layer Management Protocol.
11. Physical Layer Principles of Operation.
12. Physical Layer Convergence Procedure for DS3 Based Systems.
13. Physical Layer Convergence Procedure for CCITT Recommendation G.703.
14. Physical Layer Convergence Procedure for CCITT Recommendations G.707 to G.709.

Sections 13 and 14 have not yet been implemented in the current IEEE Standard 802.6 [1]. Sections 12 to 14 are substituted by the physical layer convergence procedures contained in the ETSs listed in Clause 4.