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**Network Aspects (NA);  
Metropolitan Area Network (MAN)  
Conformance specification for  
the Medium Access Control (MAC) layer management**

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## 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 defines the conformance specification for the Medium Access Control (MAC) layer management as defined in ETS 300 273 [1].

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## 1 Scope

This European Telecommunication Standard (ETS) defines the conformance specification for the Medium Access Control (MAC) layer management, as defined in ETS 300 273 [1].

## 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 below. For dated references, subsequent amendments to or revisions 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] ETS 300 273: "Network Aspects (NA); Metropolitan Area Network (MAN) Medium Access Control (MAC) layer management".

## 3 Definitions, symbols and abbreviations

For the purposes of this ETS, the definitions, symbols and abbreviations as defined in ETS 300 273 [1] shall apply.

Additionally, for this ETS, the following abbreviations are used in defining the support type of a feature, parameter or capability.

m	mandatory
o	optional
c	conditional
n/a	not applicable

## 4 Conformance specifications

To facilitate the cross-referencing of this ETS with ETS 300 273 [1], the relevant Clause and subclause numbers from ETS 300 273 [1] are indicated in the title of each table.

### ETS 300 273 [1], Clause 4: MAC layer management

**Table 1: Subclause 4.2.1, MAC layer management interface**

Item	Feature	Status	Predicate	Support
.1	Layer management interface	m		Y/N/X
.2	Configuration control	c:m n/a n/a	looped multipoint if open bus UMI if point-to-point	Y/N/X

**Table 2: Subclause 4.2.2, MAC layer management protocol**

Item	Feature	Status	Predicate	Support
.1	Layer management protocol	m		Y/N/X
.2	Configuration control protocol	c:m n/a n/a	looped multipoint if open bus UMI if point-to-point	Y/N/X
.3	MID page allocation protocol	c:o n/a	if Dyn Distr MPA if not Dyn Distr MPA	Y/N/X

**Table 3: Subclause 4.3, MAC layer management through systems management**

Item	Feature	Status	Predicate	Support
.1	Short stack QMAN interface	c:m o	if MAN Node if MSS	Y/N/X
.2	Q interface according to G.773	o	MSS	Y/N/X
.3	Q interface according to G.773	o	MAN Node	Y/N/X
.4	Q3 interface according to Q.961/Q.962	o	MSS	Y/N/X
.5	Q3 interface according to Q.961/Q.962	o	MAN Node	Y/N/X

**ETS 300 273 [1], Clause 5: Information model for systems management of the MAC layer**

**Subclause 5.1: Object classes and packages definitions**

**Table 4: Subclause 5.1.1, MID page allocation**

Item	Feature	Status	Predicate	Support
.1	midPageAllocation Object	c:m o	if Dyn Centr MPA if not Dyn Centr MPA	Y/N/X
.2	midPageAllocationPackage Package	c:m n/a	if .1 if not .1	Y/N/X

**Table 5: Subclause 5.1.2, DQDB configuration**

Item	Feature	Status	Predicate	Support
.1	dqdbConfiguration Object	m		Y/N/X
.2	dqdbConfigurationPackage Package	m		Y/N/X
.3	configurationControlPackage Package	o		Y/N/X



**Table 6: Subclause 5.1.3, distributed queue process**

Item	Feature	Status	Predicate	Support
.1	distributedQueueProcess Object	m		Y/N/X
.2	distributedQueueProcessPackage Package	m		Y/N/X

**Table 7: Subclause 5.1.4, bandwidth balancing process**

Item	Feature	Status	Predicate	Support
.1	bandwidthBalancingProcess Object	c:o n/a	if multipoint if not multipoint	Y/N/X
.2	bandwidthBalancingProcessPackage Package	c:m n/a	if .1 if not .1	Y/N/X

**Table 8: Subclause 5.1.5, MAN DQDB SAP**

Item	Feature	Status	Predicate	Support
.1	manDQDBsap Object	m	NOTE: Not inst'd	Y/N/X
.2	manDQDBsapPackage Package	m		Y/N/X

**Table 9: Subclause 5.1.6, MAN CL SAP**

Item	Feature	Status	Predicate	Support
.1	manCLsap Object	m		Y/N/X
.2	manCLsapPackage Package	m		Y/N/X

**Table 10: Subclause 5.1.7, segment header processing**

Item	Feature	Status	Predicate	Support
.1	segmentHeaderProcessing Object	m		Y/N/X
.2	segmentHeaderProcessingPackage Package	m		Y/N/X

**Table 11: Subclause 5.1.8, IMPDU reassembly process**

Item	Feature	Status	Predicate	Support
.1	impduReassemblyProcess Object	m		Y/N/X
.2	impduReassemblyProcessPackage Package	m		Y/N/X
.3	reassemblyErrorCounterThresholdPackage Pack.	o		Y/N/X
.4	crc32CheckControlPackage Package	o		Y/N/X

**Table 12: Subclause 5.1.9, IMPDU transmission process**

Item	Feature	Status	Predicate	Support
.1	impduTransmissionProcess Object	m		Y/N/X
.2	impduTransmissionProcessPackage Package	m		Y/N/X
.3	crc32GenerationControlPackage Package	o		Y/N/X
.4	headerExtensionPackage Package	o		Y/N/X

**Table 13: Subclause 5.1.10, physical layer facilities**

Item	Feature	Status	Predicate	Support
.1	physicalLayerFacilities Object	m		Y/N/X
.2	physicalLayerFacilitiesPackage Package	m		Y/N/X
.3	physicalLayerFacilitiesStatusPackage Package	o		Y/N/X

**Table 14: Subclause 5.2, name bindings for object classes**

Item	Feature	Status	Predicate	Support
.1	Name Bindings	m		Y/N/X

**ETS 300 273 [1], subclauses 5.3 to 5.6**

Conformance specification for subclauses 5.3 to 5.6 of ETS 300 273 [1] are equivalent to those given for subclause 5.1 (tables 4 onwards).

## History

Document history	
March 1994	First Edition
March 1996	Converted into Adobe Acrobat Portable Document Format (PDF)