



AMENDMENT

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A1

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**This amendment A1 modifies
the European Telecommunication Standard ETS 300 652 (1996)**

**Radio Equipment and Systems (RES);
High Performance Radio Local Area Network (HIPERLAN)
Type 1;
Functional specification**

URGENT TECHNICAL CORRECTION

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Foreword

This amendment to ETS 300 652 (1996) has been produced by the Radio Equipment and Systems (RES) Technical Committee of the European Telecommunications Standards Institute (ETSI).

Transposition dates	
Date of adoption:	18 April 1997
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Date of withdrawal of any conflicting National Standard (dow):	28 February 1998

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Amendments

Page 13, clause 2

Replace clause 2 with the following:

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] CEPT Recommendation T/R 22-06: "Relating to the harmonised radio frequency bands for High PErformance Radio Local Area Networks (HIPERLANs) in the 5 GHz and 17 GHz frequency range".
- [2] ISO/IEC 7 498-1 (1994): "Information technology - Open Systems Interconnection - Basic Reference Model: The Basic Model".
- [3] (not used).
- [4] (not used).
- [5] ISO/IEC 10 731 (1994): "Information technology - Open Systems Interconnection - Basic Reference Model - Conventions for the definition of OSI services".
- [6] ANSI/IEEE 802.1a (1990): "Local Area Network and Metropolitan Area Network - Overview and Architecture".
- [7] ISO/IEC 15 802-1 (1995): "Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Common specifications - Part 1: Medium Access Control (MAC) service definition".
- [8] ISO/IEC 10 038 (1993): "Information technology - Telecommunications and information exchange between systems - Local area networks - Media access control (MAC) bridges".
- [9] ISO/IEC 10 646-1 (1993): "Information Technology - Universal Multiple-Octet Coded Character Set (UCS) - Part 1: Architecture and Basic Multilingual Plane".

Page 14, subclause 3.1.1

Replace the first paragraph with the following:

This ETS is based on the concepts developed in the open system interconnect basic reference model and makes use of the following terms defined in ISO/IEC 7 498-1 [2]:

Page 14, subclause 3.1.2

Replace the first paragraph with the following:

This ETS makes use of the following terms defined in ISO/IEC 10 731 [5]:

Page 14, subclause 3.1.3

Replace the first paragraph with the following:

This ETS makes use of the following terms defined in ANSI/IEEE 802.1a [6]:

Page 14, subclause 3.1.4

Replace the whole subclause with the following:

This ETS makes use of the following terms defined in ISO/IEC 15 802-1 [7]:

- group-MSAP-address;
- MAC service data unit (MSDU).

Page 17, clause 4

Replace the first two bullet points with the following:

- it provides a service that is compatible with the ISO MAC service definition in ISO/IEC 15 802-1 [7];
- its operations are compatible with the ISO MAC bridges specification in ISO/IEC 10 038 [8] for interconnection with other LANs;

Page 19, clause 4

Replace the third bullet point under "HIPERLAN MAC protocol:" with the following:

- is compatible with the ISO MAC bridges specification in ISO/IEC 10 038 [8]; and

Page 23, clause 5

Replace the first paragraph with the following:

The HIPERLAN MAC service definition uses the descriptive conventions given in ISO/IEC 10 731 [5].

Page 23, clause 5

Replace the third paragraph with the following:

The HIPERLAN MAC service definition is based on the ISO MAC service specification in ISO/IEC 15 802-1 [7].

Page 30, subclause 6.1.1

Replace the subclause with the following:

The HIPERLAN name identifies a HIPERLAN and is a fixed-length string of 32 16-bit characters encoded in UCS-2 with implementation level 3 according to ISO/IEC 10 646-1 [9].

Page 37, table 16

Replace table 16 with the following table:

Table 16: Valid values for the timing elements of a recurring pattern

All values are integer, in milliseconds	
Timing elements	Valid range of value
pattern offset	0 - 10 000
pattern period	500 - 10 000
practice interval	500 - 10 000

Page 37, subclause 6.3.1

Replace the whole subclause with the following:

This procedure shall be executed by a p-saver to declare its individual-attention pattern to its neighbouring HM-entities, at the start of its individual-attention interval of every n^{th} individual-attention pattern period, where n shall be an integer with a minimum value of 1 and a maximum value of:

$$\text{Int}(t_{\text{IP}} / (2 \times \text{individual-attention pattern period}))$$

From the moment of its individual-attention pattern declaration, the p-saver shall be ready to receive during its declared recurring individual-attention intervals.

Page 37, subclause 6.3.2

Replace the whole subclause with the following:

This procedure shall be executed by a p-supporter to declare its group-attendance pattern to its neighbouring HM-entities, at the start of its group-attendance interval of every n^{th} group-attendance pattern period, where n shall be an integer with a minimum value of 1 and a maximum value of:

$$\text{Int}(t_{\text{GP}} / (2 \times \text{group-attendance pattern period}))$$

Page 46, subclause 6.5.5.1

Replace all the text from the paragraph "A new hello entry is recorded in ..." till the end of the subclause with the following:

If, after the completion of the above procedures, N_{Status} of the neighbour entry in the local neighbour information base whose N_{Nbour} identifies the neighbouring HM-entity is N_{Sym} or $N_{\text{MultiRelay}}$:

- a new hello entry is recorded in the local hello information base for a holding time of t_{HO} , where:
 - H_{Dest} and H_{Next} are set to the source address parameter of the HC-UNITDATA indication primitive; and
 - H_{Status} is set to $H_{\text{NeighbourF}}$ if the value of the RTI of the received HO-HMPDU is $R_{\text{Forwarder}}$, or $H_{\text{NeighbourNF}}$ if the value of the RTI is $R_{\text{NonForwarder}}$;

While recording this new hello entry, an earlier hello entry with the same H_{Dest} , if it exists, is considered outdated and is replaced. If necessary, an earlier hello entry is removed to provide sufficient space to record the new hello entry.

- for each { NA, NS } pair conveyed in the received HO-HMPDU, if:
 - the value of the NA does not identify the local HM-entity;
 - the value of the NA does not correspond to H_{Dest} of any hello entry in the local hello information base whose H_{Status} is $H_NeighbourF$ or $H_NeighbourNF$;
 - the value of the RTI of the HO-HMPDU is $R_Forwarder$; and
 - the value of the NS is N_Sym or $N_MultiRelay$;

a new hello entry is recorded in the local hello information base for a holding time of t_{HO} , where:

- H_{Dest} is set to the value of the NA;
- H_{Status} is set to H_TwoHop ; and
- H_{Next} is set to the source address parameter of the HC-UNITDATA indication primitive.

While recording such a new hello entry, an earlier hello entry with the same H_{Dest} and the same H_{Next} , if it exists, is considered outdated and is replaced. If necessary, an earlier hello entry is removed to provide sufficient space to record a new hello entry.

Page 50, subclause 6.6.3

Replace the title with:

"HMPDU transmission and retransmission".

Replace the first paragraph with the following:

This procedure is executed to transmit or retransmit the most important HMPDU awaiting transmission:

Page 50, subclause 6.6.3.1

Replace the second paragraph with the following:

If the selected HMPDU is a TC-HMPDU or a DT-HMPDU which is generated (not forwarded) by the local HM-entity and has not previously been transmitted (successfully or unsuccessfully):

Page 53, figure 12

Replace figure 12 with the following:

HMPDU Length Indicator field (LI) = n	Octet 1 - 2
HMPDU Type Indicator field (TI)	3
...	4 - n

Figure 12: The general structure of a HMPDU