

# EUROPEAN RADIOCOMMUNICATIONS COMMITTEE

ERC Decision  
of 1 November 1996  
on the adoption of approval regulations for radio equipment  
to be used in the land mobile service using an integral  
antenna transmitting signals to initiate a specific response  
in the receiver based on the European Telecommunications  
Standard (ETS) 300 341  
(ERC/DEC/(96)12)



WITHDRAWN

## EXPLANATORY MEMORANDUM

### 1. INTRODUCTION

The free movement of radiocommunications goods and the provision of Europe-wide services for radiocommunications are only achievable if there exist common regulations throughout Europe regarding availability of frequency bands, approval requirements and border crossing procedures. A basic requirement to fulfil these objectives is the Europe-wide implementation of national regulations based on the European Telecommunications Standards (ETSS) developed by the European Telecommunications Standards Institute (ETSI).

This Decision (ERC/DEC/(96)12) provides the necessary mechanism for CEPT Administrations to commit themselves to implement, within their national regimes, European Telecommunications Standard 300 341<sup>1</sup> and withdraw any conflicting national standard.

### 2. BACKGROUND

Both the ERC and ETSI are involved in the development of common regulations, as described in (1) above. The Memorandum of Understanding between ERC and ETSI explains the respective responsibilities of the two organisations and its annex describes the principles of co-operation. The ERC, for its part, should, *inter alia*, adopt Decisions on the introduction of ETSI standards into approval regimes.

ETS 300 341 has been prepared by the Radio Equipment and Systems (RES) Technical Committee of ETSI. The standard has undergone the ETSI standards approval procedure and is now published as an ETS.

The ETS, which is based on CEPT Recommendation T/R 24-01, is a general standard which may be superseded by specific standards covering specific applications.

The use of the frequency range (30-1000 MHz) covered by ETS 300 341 is not harmonised within CEPT. Although CEPT Recommendation T/R 25-08 provides preferred arrangements for some frequency bands designated for mobile radio systems, administrations have adopted different arrangements, to meet national requirements, for frequency bands, duplex separations and channel separations (12.5, 20 and 25 kHz). Further, the equipment used in this frequency range is subject to national licensing and frequency planning which requires specification of, *inter alia*, frequency of operation and equivalent isotropically radiated power (e.i.r.p.) and, in some cases, additional requirements to improve spectrum utilisation, for example timers to limit maximum duration of transmissions. Such parameters or requirements are considered as outside the scope of this Decision.

Nevertheless, there are a number of parameters, in particular those considered by the ERC as essential for spectrum management purposes<sup>2</sup>, which can be harmonised by adopting within approval regulations the limit values and measurement methods provided in ETS 300 341.

### 3. REQUIREMENT FOR AN ERC DECISION

The allocation and assignment of radio frequencies and the complementary equipment approval regimes in CEPT Member countries are laid down by law, regulation or administrative action. The ERC recognises that for harmonised fixed and mobile radio services to be introduced successfully throughout Europe, manufacturers and operators must be given the confidence to make the necessary investment in the development and procurement of new systems. Commitment by CEPT Administrations to implement this ERC Decision will provide a clear indication that equipment conforming to approval regulations based on ETS 300 341 will have the benefit of a Europe-wide market.

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<sup>1</sup> ETS 300 341: *"Technical characteristics and test conditions for radio equipment using an integral antenna transmitting signals to initial response in the receiver" (Edition 1, 1995)*

<sup>2</sup> See Annex 1 of the Decision

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**(ERC/DEC/(96)12)**

The European Conference of Postal and Telecommunications Administrations,

*considering:*

- a) that CEPT has a long term objective to harmonise the use of frequencies and the related regulatory regimes;
- b) that such harmonisation will benefit administrations, manufacturers, operators and users;
- c) that ETSI has published ETS 300 341 for equipment to be used in the land mobile service operating on radio frequencies between 30 MHz and 1000 MHz with channel separations of 12.5 kHz, 20 kHz and 25 kHz;
- d) that for combined speech/non speech equipment this ETS is complementary to ETS 300 296 which covers radio equipment using integral antennas for use in the land mobile service intended primarily for analogue speech;
- e) that, for the foreseeable future, many official, public and private networks will continue to use land mobile equipment having the technical characteristics described in (c) above;
- f) that, in accordance with the Memorandum of Understanding between ERC and ETSI, the ERC shall adopt ERC Decisions on the introduction of ETSI standards into approval regimes;
- g) that the use of radio equipment is subject to national licensing and frequency planning requirements, in particular for frequency of operation, limit of maximum duration of transmission (e.g. use of time-out/timers) and e.i.r.p.;
- h) that suitable transitional arrangements are given in CEPT Recommendation T/R 01-05.

**DECIDES**

1. to adopt, by 1 March 1997, approval regulations for equipment to be used in the land mobile service using an integral antenna and transmitting signals to initiate a specific response in the receiver, based on the limit values and measurement methods for spectrum management parameters contained in ETS 300 341, with the exception of those parameters which are subject to national licensing requirements<sup>3</sup>. A list of the spectrum management parameters to be included in approval regulations is given in Annex 1;
2. to withdraw any conflicting national approval regulation(s);
3. that CEPT Member Administrations shall communicate the national measures implementing this Decision to the ERC Chairman and the ERO when the Decision is nationally implemented.

Note:

Please check the ERO web site ( [www.ero.dk](http://www.ero.dk) ) under "Documentation / Implementation" for the up to date position on the implementation of this and other ERC Decisions.

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<sup>3</sup> Annex 2 is provided for information to show which options have been adopted by each Administration in those cases where ETS 300 341 offers a choice

## ANNEX 1

Parameters from ETS 300 341 to be included in approval regulations:

ETS 300 341	Section	Comments
<b>Transmitter parameters (Section 5.1) :</b>		
Frequency error	5.1.1	Options for 12.5, 20 and 25 kHz and frequency of operation
Effective radiated power	5.1.2	Subject to national licensing conditions
Adjacent channel power	5.1.3	Options for channel spacing of 12.5, 20 and 25 kHz
Spurious emissions	5.1.4	
Transient frequency behaviour of the transmitter	5.1.5	
<b>Receiver parameters (Section 5.2) :</b>		
Average usable sensitivity (field strength)	5.2.1	
Co-channel rejection	5.2.2	Options for channel spacing of 12.5, 20 and 25 kHz
Adjacent channel selectivity	5.2.3	Options for channel spacing of 12.5, 20 and 25 kHz
Spurious response rejection	5.2.4	
Intermodulation response rejection	5.2.5	
Blocking or desensitisation	5.2.6	
Spurious radiation	5.2.7	

ANNEX 2

Adoption of ETS 300 341: National variations for channel spacing.

Administration	Adoption of channel spacing options
Albania	
Andorra	
Austria	U1, U2, U3, V1, V3
Belgium	
Bosnia and Herzegovina	
Bulgaria	U3, V3
Croatia	
Cyprus	
Czech Republic	U1, U2, U3, V1, V2, V3
Denmark	
Estonia	U1, U3, V1, V3
Finland	
France	U1, V1
Germany	
Greece	
Hungary	U1, U2, U3, V1, V2, V3
Iceland	U1, U3, V1, V3
Ireland	U1, U3, V1
Italy	
Latvia	
Liechtenstein	
Lithuania	U1, U3, V1, V3
Luxembourg	
Malta	
Moldova	
Monaco	
Netherlands	
Norway	
Poland	
Portugal	
Romania	
Russian Federation	
San Marino	
Slovak Republic	U1, U2, U3, V1, V3
Slovenia	U1, V1 and U3, V3 <sup>#</sup>
Spain	
Sweden	
Switzerland	
The Former Yugoslav Republic of Macedonia	U1, U3, V1, V3
Turkey	U1, U3, V1, V3
Ukraine	
United Kingdom	
Vatican City	

Key: Channel spacing options:  
 U = UHF                    1 = 12.5 kHz  
 V = VHF                    2 = 20 kHz  
                                   3 = 25 kHz