



**SLOVENSKI STANDARD**  
**SIST EN 302 054-2 V1.1.1:2004**

**01-februar-2004**

9`Y\_lfca U[ bYfbUnXfi y`1j cghfθA7L]b`nUXYj Yj`nj Yn]`n`fUX]`g`\_ja `gdY\_lfca `fθFAŁ  
Ě`A YnYcfc`c`y`\_]df]dca c`\_]`fA Yh5 ]Xgk!`FUX]cgcbXY`nUi dcfUWc`j`ZY`\_j`Yb`bYa  
cVa`c`\_`1`cX`(`\$\$Z) `A<n`Xc`(`\$`\* `A<n`n`a`c`bcgb]a`\_j`b]j`c`1`Xc`bU]`Y`&\$\$`a`J`!`&"  
XY.`<Ufa cb]n]fUb]`Yj fcdg\_]`ghUbXUfX`fθBŁž`\_]nU`Ya UV]ghj YbY`nU hYj Y``YbU`"&  
X]fY`\_hj`Y`c`fUX]`g`\_]`]b`h`Y`\_ca`i`b]\_UW]`g`\_]`h`fa`\_]bUg`\_]`cdfYa`\_]`fF/`HH9Ł

Electromagnetic compatibility and Radio spectrum Matters (ERM); Meteorological Aids (Met Aids); Radiosondes to be used in the 400,15 MHz to 406 MHz frequency range with power levels ranging up to 200 mW; Part 2. Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

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**Ta slovenski standard je istoveten z: EN 302 054-2 Version 1.1.1**

**ICS:**

33.060.01	Radijske komunikacije na splošno	Radiocommunications in general
33.100.01	Elektromagnetna združljivost na splošno	Electromagnetic compatibility in general

**SIST EN 302 054-2 V1.1.1:2004**      **en**

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# ETSI EN 302 054-2 V1.1.1 (2003-03)

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*Candidate Harmonized European Standard (Telecommunications series)*

**Electromagnetic compatibility  
and Radio spectrum Matters (ERM);  
Meteorological Aids (Met Aids);  
Radiosondes to be used in the 400,15 MHz to 406 MHz  
frequency range with power levels ranging up to 200 mW;  
Part 2: Harmonized EN covering essential requirements  
under article 3.2 of the R&TTE Directive**

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**Reference**

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DEN/ERM-TG28-0412-2

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**Keywords**

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Radio, regulation, short range, testing, UHF

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**ETSI**

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Sous-Préfecture de Grasse (06) N° 7803/88

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## Foreword

This Candidate Harmonized European Standard (Telecommunications series) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM).

The present document has been produced by ETSI in response to a mandate from the European Commission issued under Council Directive 98/34/EC [3] laying down a procedure for the provision of information in the field of technical standards and regulations.

The present document is intended to become a Harmonized Standard, the reference of which will be published in the Official Journal of the European Communities referencing the Directive 1999/5/EC [1] of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity ("the R&TTE Directive").

The present document is part 2 of a multi-part deliverable, covering digitally modulated Radiosonde transmitters in the Meteorological Aids frequency band from 400.15 MHz to 406 MHz, as identified below:

Part 1: "Technical characteristics and test methods";

Part 2: "**Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive**".

Technical specifications relevant to Directive 1999/5/EC [1] are given in annex A.

### National transposition dates

Date of adoption of this EN:	14 March 2003
Date of latest announcement of this EN (doa):	30 June 2003
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 December 2003
Date of withdrawal of any conflicting National Standard (dow):	30 June 2006

## Introduction

The present document is part of a set of standards designed to fit in a modular structure to cover all radio and telecommunications terminal equipment under the R&TTE Directive [1]. Each standard is a module in the structure. The modular structure is shown in figure 1.

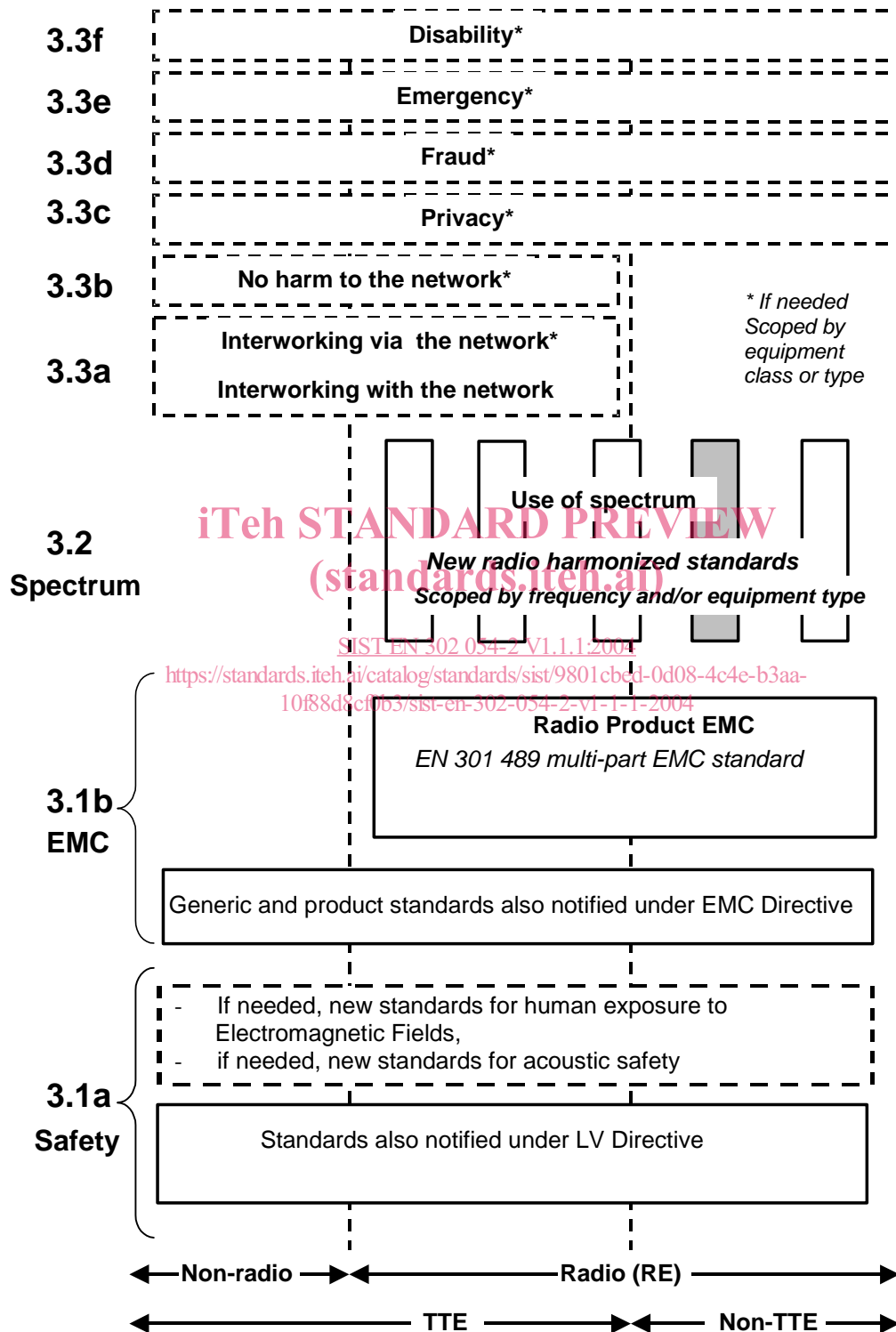


Figure 1: Modular structure for the various standards used under the R&TTE Directive [1]

The left hand edge of the figure 1 shows the different clauses of article 3 of the R&TTE Directive [1].

For article 3.3 various horizontal boxes are shown. Dotted lines indicate that at the time of publication of the present document essential requirements in these areas have to be adopted by the Commission. If such essential requirements are adopted, and as far and as long as they are applicable, they will justify individual standards whose scope is likely to be specified by function or interface type.

The vertical boxes show the standards under article 3.2 for the use of the radio spectrum by radio equipment. The scopes of these standards are specified either by frequency (normally in the case where frequency bands are harmonized) or by radio equipment type.

For article 3.1b figure 1 shows EN 301 489 [6], the multi-part product EMC standard for radio used under the EMC Directive [7].

For article 3.1a figure 1 shows the existing safety standards currently used under the LV Directive [5] and new standards covering human exposure to electromagnetic fields. New standards covering acoustic safety may also be required.

The bottom of figure 1 shows the relationship of the standards to radio equipment and telecommunications terminal equipment. A particular equipment may be radio equipment, telecommunications terminal equipment or both. A radio spectrum standard will apply if it is radio equipment. An article 3.3 standard will apply as well only if the relevant essential requirement under the R&TTE Directive [1] is adopted by the Commission and if the equipment in question is covered by the scope of the corresponding standard. Thus, depending on the nature of the equipment, the essential requirements under the R&TTE Directive [1] may be covered in a set of standards.

The modularity principle has been taken because:

- it minimizes the number of standards needed. Because equipment may, in fact, have multiple interfaces and functions it is not practicable to produce a single standard for each possible combination of functions that may occur in an equipment;
- it provides scope for standards to be added:
  - under article 3.2 when new frequency bands are agreed; or
  - under article 3.3 should the Commission take the necessary decisions;without requiring alteration of standards that are already published;
- it clarifies, simplifies and promotes the usage of Harmonized Standards as the relevant means of conformity assessment.



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## 1 Scope

The present document applies to Radiosondes in the Meteorological Aids service as described in the scope of EN 302 054-1 [2].

The present document is intended to cover the provisions of article 3.2 of Directive 1999/5/EC (R&TTE Directive) [1], which states that "... radio equipment shall be so constructed that it effectively uses the spectrum allocated to terrestrial/space radio communications and orbital resources so as to avoid harmful interference".

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## 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

- [1] Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity. (R&TTE Directive).
- [2] ETSI EN 302 054-1: "Electromagnetic Compatibility and Radio spectrum Matters (ERM); Meteorological Aids (Met Aids); Radiosondes to be used in the 400.15 MHz to 406 MHz frequency range with power levels ranging up to 200 mW; Part 1: Technical characteristics and test methods".
- [3] Directive 98/34/EC of the European Parliament and of the Council of 22 June 1998 laying down a procedure for the provision of information in the field of technical standards and regulations.
- [4] ETSI ETR 028: "Radio Equipment and Systems (RES); Uncertainties in the measurement of mobile radio equipment characteristics".
- [5] Council Directive 73/23/EEC of 19 February 1973 on the harmonization of the laws of Member States relating to electrical equipment designed for use within certain voltage limits. (LV Directive).
- [6] ETSI EN 301 489 (all parts): "Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services".
- [7] Council Directive 89/336/EEC of 3 May 1989 on the approximation of the laws of the Member States relating to electromagnetic compatibility. (EMC Directive).