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| STN | **Elektromagnetická kompatibilita a záležitosti rádiového spektra (ERM). Navigačný radar pre plavidlá nepodliehajúce dohode SOLAS. Harmonizovaná EN vzťahujúca sa na základné požiadavky podľa článku 3.2 smernice R&TTE.** | **STN**<br>**EN 302 248 V1.2.1**<br><br>87 2248 |
|---|---|---|

Electromagnetic compatibility and Radio spectrum Matters (ERM); Navigation radar for use on non-SOLAS vessels; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Obsahuje: EN 302 248 V1.2.1:2013

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Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, odbor SÚTN, 2014
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# ETSI EN 302 248 V1.2.1 (2013-11)


**Electromagnetic compatibility and Radio spectrum Matters (ERM); Navigation radar for use on non-SOLAS vessels; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive**

Reference
REN/ERM-TG26-106

Keywords
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***ETSI***

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
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# Contents

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# Foreword

This Harmonized European Standard (EN) 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 mandate M/284 issued from the European Commission under Directive 98/34/EC [i.2] as amended by Directive 98/48/EC [i.8].

The title and reference to the present document are intended to be included in the publication in the Official Journal of the European Union of titles and references of Harmonized Standard under the Directive 1999/5/EC [i.1].

See article 5.1 of Directive 1999/5/EC [i.1] for information on presumption of conformity and Harmonized Standards or parts thereof the references of which have been published in the Official Journal of the European Union.

The requirements relevant to Directive 1999/5/EC [i.1] are summarized in annex A.

| **National transposition dates** | |
|---|---|
| Date of adoption of this EN: | 6 November 2013 |
| Date of latest announcement of this EN (doa): | 28 February 2014 |
| Date of latest publication of new National Standard or endorsement of this EN (dop/e): | 31 August 2014 |
| Date of withdrawal of any conflicting National Standard (dow): | 31 August 2015 |

# Introduction

The present document is part of a set of standards developed by ETSI and is designed to fit in a modular structure to cover all radio and telecommunications terminal equipment within the scope of the R&TTE Directive [i.1]. The modular structure is shown in EG 201 399 [i.7].

# 1 Scope

The present document applies to non-SOLAS radar equipment.

The applicable frequencies of operation of this type of radio equipment are given in table 1. These frequencies are allocated to the radio navigation service, as defined in article 5 of the Radio Regulations [i.6].

**Table 1: Radionavigation service frequencies**

| | Radionavigation service frequencies |
|---|---|
| Transmit | 2 900 MHz to 3 100 MHz |
| Receive | 2 900 MHz to 3 100 MHz |
| Transmit | 9 300 MHz to 9 500 MHz |
| Receive | 9 300 MHz to 9 500 MHz |

The present document is intended to cover the provisions of Directive 1999/5/EC [i.1] (R&TTE Directive), article 3.2, 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*".

In addition to the present document, other ENs that specify technical requirements in respect of essential requirements under other parts of Article 3 of the R&TTE Directive [i.1] may apply to equipment within the scope of the present document.

NOTE: A list of such ENs is included on the web site http://www.newapproach.org.

# 2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

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## 2.1 Normative references

The following referenced documents are necessary for the application of the present document.

[1] CENELEC EN 60945 (Edition 4 - 2002) + Corrigendum 1 (2010): "Maritime navigation and radiocommunication equipment and systems - General requirements - Methods of testing and required test results".

[2] Recommendation ITU-R M.1177-4 (2011): "Techniques for measurement of unwanted emissions of radar systems".

[3] Recommendation ITU-R SM.1541-4 (2011): "Unwanted emissions in the out-of-band domain".

## 2.2 Informative references

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

[i.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).

[i.2] Directive 98/34/EC of the European Parliament and of the Council laying down a procedure for the provision of information in the field of technical standards and regulations and of rules on information society services.

[i.3] ANSI C63.5 (1988): "American National Standard for Calibration of Antennas Used for Radiated Emission Measurements in Electromagnetic Interference (EMI) Control".

[i.4] ETSI TR 100 028 (V1.3.1 - all parts): "ElectroMagnetic Compatibility and Radio Spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics".

[i.5] ETSI TR 102 273 (V1.2.1 - all parts): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Improvement on Radiated Methods of Measurement (using test site) and evaluation of the corresponding measurement uncertainties".

[i.6] ITU Radio Regulations (2012).

[i.7] ETSI EG 201 399: "Electromagnetic compatibility and Radio spectrum Matters (ERM); A guide to the production of Harmonized Standards for application under the R&TTE Directive".

[i.8] Directive 98/48/EC of the European Parliament and of the Council of 20 July 1998 amending Directive 98/34/EC laying down a procedure for the provision of information in the field of technical standards and regulations.

[i.9] ETSI TR 100 028-2 (V1.4.1): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2".

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