

<b>STN</b>	<b>Zariadenia pre biele miesta (WSD). Bezdrôtové prístupové systémy pracujúce v televíznom vysielacom pásme od 470 MHz do 790 MHz. Harmonizovaná EN vzťahujúca sa na základné požiadavky podľa článku 3.2 smernice R&amp;TTE.</b>	<b>STN EN 301 598 V1.1.1</b>
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White Space Devices (WSD); Wireless Access Systems operating in the 470 MHz to 790 MHz TV broadcast band; 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.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 11/14

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# ETSI EN 301 598 V1.1.1 (2014-04)



Harmonized European Standard

**White Space Devices (WSD);  
Wireless Access Systems operating in the 470 MHz to 790 MHz  
TV broadcast band;  
Harmonized EN covering the essential requirements  
of article 3.2 of the R&TTE Directive**

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## Foreword

This Harmonized European Standard (EN) has been produced by ETSI Technical Committee Broadband Radio Access Networks (BRAN).

The present document has been produced by ETSI in response to mandates M/284 and M/512 issued from the European Commission under Directive 98/34/EC [i.1] as amended by Directive 98/48/EC [i.2].

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.3].

See article 5.1 of Directive 1999/5/EC [i.3] 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.3] are summarized in annex A.

<b>National transposition dates</b>	
Date of adoption of this EN:	21 April 2014
Date of latest announcement of this EN (doa):	31 July 2014
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## 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.3]. The modular structure is shown in EG 201 399 [i.4].

The methods and principles used in the present document for the operation of TV White Space devices in the band 470 MHz to 790 MHz are taken from the ECC Report 186 [i.5], which explains the regulatory principles under which it is envisaged such devices will be permitted to operate in Europe. This approach is also explained in further detail in Chapter 9 of "Dynamic White Space Spectrum Access" [i.11].

A requirement to facilitate coexistence between TVWSDs is not considered essential with respect to compliance with Article 3.2 of Directive 1999/5/EC [i.3] and therefore is not included in the current version of the present document. This may change in the future, resulting in the inclusion of mitigation techniques in a revision of the present document, to improve the coexistence among TVWSDs, if considered essential in order to comply with Article 3.2 of Directive 1999/5/EC [i.3].



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# 1 Scope

The present document applies to TV white space devices (TVWSDs) controlled by a TV white space database (TVWSDB) and which operate in the TV broadcast band 470 MHz to 790 MHz.

The present document applies to the following radio equipment types:

- 1) Master TV white space device (TVWSD)
- 2) Slave TV white space device (TVWSD)

The present document applies to TVWSDs with integral, dedicated or external antennas, where TVWSDs using external antennas are intended only for fixed use. The present document is intended to cover the provisions of Directive 1999/5/EC [i.3] (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 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>.

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# 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.

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

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

## 2.1 Normative references

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

- [1] NIMA Technical Report TR8350.2 (1984, including amendment 1 of 03 January 2000 and amendment 2 of 23 June 2004): "Department of Defense World Geodetic System 1984. Its Definition and Relationships with Local Geodetic Systems".

NOTE: Available at <http://earth-info.nga.mil/GandG/publications/tr8350.2/wgs84fin.pdf>.

- [2] ETSI TR 100 028-1 (V1.4.1) (12-2001): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1".
- [3] ETSI TR 100 028-2 (V1.4.1) (12-2001): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2".
- [4] IETF RFC 4122 (05-2007): "A Universally Unique IDentifier (UUID) URN Namespace".

NOTE: Available at <http://www.ietf.org/rfc/rfc4122.txt>.

## 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 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 and of rules on Information Society services.
- [i.2] 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.3] 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.4] 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.5] ECC Report 186: "Technical and operational requirements for the operation of white space devices under geo-location approach", January 2013.
- [i.6] ETSI TR 102 273-2: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Improvement on Radiated Methods of Measurement (using test site) and evaluation of the corresponding measurement uncertainties; Part 2: Anechoic chamber".
- [i.7] ETSI TR 102 273-3: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Improvement on Radiated Methods of Measurement (using test site) and evaluation of the corresponding measurement uncertainties; Part 3: Anechoic chamber with a ground plane".
- [i.8] ETSI TR 102 273-4: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Improvement on Radiated Methods of Measurement (using test site) and evaluation of the corresponding measurement uncertainties; Part 4: Open area test site".
- [i.9] ETSI TR 103 231: "White Space Devices (WSD); Wireless Access Systems operating in the 470 MHz to 790 MHz TV broadcast band; Information on weblisting of TV White Space Databases (TVWSDBs)".
- [i.10] ECC Report 159: "Technical and operational requirements for the possible operation of cognitive radio systems in the "white spaces" of the frequency band 470-790 MHz", January 2011.
- [i.11] Dynamic White Space Spectrum Access; By William Webb and contributors.

NOTE: Available at <http://www.webbsearch.co.uk/publications/>.

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**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**