



Electromagnetic compatibility and Radio spectrum Matters (ERM); Using the EN 301 489 series of EMC standards

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Foreword

This Technical Report (TR) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM).

Modal verbs terminology

In the present document "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

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Introduction

The ETSI EN 301 489 series [i.2] of EMC standards have been produced by ETSI to enable manufacturers of radio products to be able to use the harmonised standards route to demonstrate compliance with article 3.1(b) of the Directive 2014/53/EU [i.37] (RE Directive). The present document is designed to assist the manufacturer to apply these standards in a consistent manner and also understand the various changes between the different versions of each individual part of the ETSI EN 301 489 series [i.2].

The present document should reduce the number of revisions to the ETSI EN 301 489 series [i.2] of harmonised standards where these revisions are simply to add new examples of equipment covered into the annex A of the individual parts.

Earlier editions of the present document, i.e. with version numbers v.1.x.y, relate to previous regulatory regimes, specifically Directive 1999/5/EC [i.1] (R&TTE Directive).

1 Scope

The present document is intended to provide guidance on the use of the ETSI EN 301 489 series [i.2] of harmonised EMC standards produced by ETSI ERM.

Specifically this guidance covers selection of which part that is to be selected for use in conjunction with ETSI EN 301 489-1 [i.2] to provide the necessary requirements to enable the user to demonstrate compliance with article 3.1(b) of the Directive 2014/53/EU [i.37] (RE Directive). The aim of this is to increase consistency of application.

In addition the present document also details the differences between the individual versions of each part of the ETSI EN 301 489 series [i.2] to assist the reader in reaching a decision on the impact of the different versions on their particular product.

In the interest of maintaining the document as up to date as possible the present document starts with those versions of the ETSI EN 301 489 series [i.2] cited in the Official Journal of the European Union (OJEU) on the 08th June 2017.

2 References

2.1 Normative references

Normative references are not applicable in the present document.

2.2 Informative 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.

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

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] ETSI EN 301 489 (all parts): "Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services".
- [i.3] Commission Directive 2004/104/EC of 14 October 2004 adapting to technical progress Council Directive 72/245/EEC relating to the radio interference (electromagnetic compatibility) of vehicles and amending Directive 70/156/EEC on the approximation of the laws of the Member States relating to the type-approval of motor vehicles and their trailers.
- [i.4] CENELEC EN 55022: "Information technology equipment - Radio disturbance characteristics - Limits and methods of measurements".
- [i.5] ETSI EN 300 676: "ElectroMagnetic Compatibility and Radio Spectrum Matters (ERM); Ground-based VHF hand-held, mobile and fixed radio transmitters, receivers and transceivers for the VHF aeronautical mobile service using amplitude modulation; Technical characteristics and methods of measurement".
- [i.6] ETSI TS 125 104: "Universal Mobile Telecommunications System (UMTS); Base Station (BS) radio transmission and reception (FDD) (3GPP TS 25.104)".

- [i.7] ETSI TS 125 105: "Universal Mobile Telecommunications System (UMTS); Base Station (BS) radio transmission and reception (TDD) (3GPP TS 25.105)".
- [i.8] ETSI TS 125 106: "Universal Mobile Telecommunications System (UMTS); UTRA repeater radio transmission and reception (3GPP TS 25.106)".
- [i.9] ETSI TS 136 104: "LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception (3GPP TS 36.104)".
- [i.10] ETSI TS 136 141: "LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing (3GPP TS 36.141)".
- [i.11] ETSI TS 136 106: "LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); FDD repeater radio transmission and reception (3GPP TS 36.106)".
- [i.12] ETSI TS 136 143: "LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); FDD repeater conformance testing (3GPP TS 36.143)".
- [i.13] ETSI TS 125 101: "Universal Mobile Telecommunications System (UMTS); User Equipment (UE) radio transmission and reception (FDD) (3GPP TS 25.101)".
- [i.14] ETSI TS 125 102: "Universal Mobile Telecommunications System (UMTS); User Equipment (UE) radio transmission and reception (TDD) (3GPP TS 25.102)".
- [i.15] ETSI TS 136 101: "LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception (3GPP TS 36.101)".
- [i.16] ETSI EN 301 839-1 (V1.1.1): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Radio equipment in the frequency range 402 MHz to 405 MHz for Ultra Low Power Active Medical Implants and Accessories; Part 1: Technical characteristics, including electromagnetic compatibility requirements, and test methods".
- [i.17] ETSI EN 301 839-2 (V1.1.1): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Radio equipment in the frequency range 402 MHz to 405 MHz for Ultra Low Power Active Medical Implants and Accessories; Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive".
- [i.18] ERC Recommendation 70-03: "Relating to the use of Short Range Devices (SRD)".
- [i.19] ETSI EN 302 537-1: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Ultra Low Power Medical Data Service Systems operating in the frequency range 401 MHz to 402 MHz and 405 MHz to 406 MHz; Part 1: Technical characteristics and test methods".
- [i.20] ETSI EN 302 537-2: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Ultra Low Power Medical Data Service Systems operating in the frequency range 401 MHz to 402 MHz and 405 MHz to 406 MHz; Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive".
- [i.21] ETSI EN 302 195-1 (V1.1.1): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Radio equipment in the frequency range 9 kHz to 315 kHz for Ultra Low Power Active Medical Implants (ULP-AMI) and accessories; Part 1: Technical characteristics and test methods".
- [i.22] ETSI EN 302 195-2 (V1.1.1): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Radio equipment in the frequency range 9 kHz to 315 kHz for Ultra Low Power Active Medical Implants (ULP-AMI) and accessories; Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive".
- [i.23] CENELEC EN 62684: "Interoperability specifications of common external power supply (EPS) for use with data-enabled mobile telephones".
- [i.24] Void.
- [i.25] Void.
- [i.26] Void.

- [i.27] CENELEC EN 55024: "Information technology equipment - Immunity characteristics - Limits and methods of measurement".
- [i.28] Void.
- [i.29] M/455 EN Standardisation mandate to CEN, CENELEC and ETSI on a common Charging Capability for Mobile Telephones.
- [i.30] ETSI EN 300 422-1: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Wireless microphones in the 25 MHz to 3 GHz frequency range; Part 1: Technical characteristics and methods of measurement".
- [i.31] ETSI EN 301 357-1: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Cordless audio devices in the range 25 MHz to 2 000 MHz; Part 1: Technical characteristics and test methods".
- [i.32] ETSI EN 300 454-1: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Wide band audio links; Part 1: Technical characteristics and test methods".
- [i.33] Void.
- [i.34] Void.
- [i.35] Directive 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility (recast).
- [i.36] ETSI EN 301 559-1: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Low Power Active Medical Implants (LP-AMI) operating in the frequency range 2 483,5 MHz to 2 500 MHz; Part 1: Technical characteristics and test methods".
- [i.37] Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC, (OJ L153, 22.5.2014, p62).
- [i.38] ISO 7637-2 (2004): "Road vehicles - Electrical disturbances from conduction and coupling - Part 2: Electrical transient conduction along supply lines only".
- [i.39] CISPR 25 (2nd Edition 2002) and COR1 (2004): "Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices - Limits and methods of measurement".
- [i.40] UNECE Regulation No. 10 Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility.
- [i.41] CENELEC EN 61000-6-3: "Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments".

3 Definition of terms, symbols and abbreviations

3.1 Terms

Void.

3.2 Symbols

Void.

3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

AM	Amplitude Modulation
BS	Base Station
BSS	Base Station System
CB	Citizens Band
CCMF	Centralised Control and Monitoring Functions
CDMA	Code Division Multiple Access
DC	Direct Current
DCS	Digital Cellular System
DECT	Digital Enhanced Cordless Telecommunications
DSB	Double Side Band
EC	European Commission
EDGE	Enhanced Data for GSM Evolution
EMC	Electromagnetic Compatibility
EMCD	EMC Directive
ENAP	EN Approvals Process
EPS	External Power Supply
ERP	Effective Radiated Power
EST	Earth Station on Trains
EU	European Union
EUT	Equipment Under Test
E-UTRA	Evolved Universal Terrestrial Radio Access
FDD	Frequency Division Duplex
FS	Fixed Service
FSS	Fixed Satellite Service
GFSK	Gaussian Frequency Shift Key
GNSS	Global Navigation Satellite System
GPRS	General Packet Radio Service
GSM	Global System for Mobile communication
IEM	In Ear Monitor
ISM	Industrial, Scientific and Medical
LAN	Local Area Network
LMSS	Land Mobile Satellite Service
LNB	Low Noise Block
MEDS	Medical Data Service
MES	Mobile Earth Station
MSS	Mobile Satellite Service
NCF	Network Control Facilities
NMT	Nordic Mobile Telephone
OJEU	Official Journal of the European Union
PABX	Private Automatic Branch Exchange
PCN	Personal Communications Network
PMR	Private Mobile Radio
RF	Radio Frequency
RFID	Radio Frequency Identification Device
ROMES	Receive Only Mobile Earth Station
RTMS	Radio Telephone Mobile System (Italy)
SMS	Short Message Service
SNG	Satellite News Gathering
SRD	Short Range Device
TACS	Total Access Communication System
TCAM	Telecommunication Conformity Assessment and Market surveillance committee
TDD	Time Division Duplex
TES	Transportable Earth Station
TETRA	TERrestrial Trunked RAdio
TTE	Telecommunications Terminal Equipment
TTED	Telecommunications Terminal Equipment Directive
TV	Television