

**Electromagnetic compatibility  
and Radio spectrum Matters (ERM);  
ElectroMagnetic Compatibility (EMC)  
standard for radio equipment and services;  
Part 1: Common technical requirements**

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## Foreword

This final draft Harmonized European Standard (EN) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM), and is now submitted for the ETSI standards One-step Approval Procedure.

The present document has been produced by ETSI in response to a mandate from the European Commission issued under Council Directive 98/34/EC [i.3] (as amended) 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 Council Directive on the approximation of the laws of the Member States relating to electromagnetic compatibility ("the EMC Directive") (2004/108/EC [i.2] as amended) and Directive 1999/5/EC [i.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 requirements relevant to the EMC Directive [i.3] and the R&TTE Directive [i.1] are summarised in annex A.

The present document is based upon the Generic Standards EN 61000-6-3 [i.4] and EN 61000-6-1 [i.5] and other standards, where appropriate, to meet the essential requirements of Council Directives 2004/108/EC [i.2], 1999/5/EC [i.1] and the motor vehicle EMC Directive 2004/104/EC [i.8] respectively.

The motor vehicle EMC Directive 2004/104/EC [i.8], is a type approval Directive, and contains in its annexes, all the technical requirements necessary to demonstrate conformance. There are two categories of after market equipment covered by the Directive as follows:

- a) After market (radio) equipment (and ancillary equipment) intended for installation in a motor vehicle, and which **are not related to immunity related functions** (annex I, clause 2.1.12 of the Directive) of the motor vehicle.
- b) After market (radio) equipment (and ancillary equipment) intended for installation in a motor vehicle, and which **are related to immunity related functions** (annex I, clause 2.1.12) of the motor vehicle, are subject to **type approval requirements** of the Directive 2004/104/EC [i.8].

The present document only deals with equipment of category a) subject to the requirements set out below.

**Annex I, clause 3.2.9 of 2004/104/EC [i.8]**, sets out the acceptance of conformity according to the procedures of 2004/108/EC [i.2] or 1999/5/EC [i.1] for after market equipment (ESAs) not related to immunity related functions of the motor vehicle (annex I, clause 2.1.12), but additionally requires that the ESA fulfils the limits defined in annex I, clauses 6.5, 6.6, 6.8, and 6.9 of the Directive. Requirements applicable to this type of after market equipment (ESAs) are set out in annex B of the present document.

The present document, and the product related parts of it are based on the current EMC standards published by ETSI. It should be noted that the majority of these EMC standards have also been published in the Official Journal of the European Union.