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Application of EMF standards to combined products

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Application of EMF standards to combined products

Application des normes relatives aux champs
électromagnétiques (EMF) aux produits combinés

Anwendung von EMF-Normen auf kombinierte Produkte

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European foreword

This document (CLC/TR 50734:2025) has been prepared by CLC/TC 106X “Electromagnetic fields in the human environment”.

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Introduction

With the Internet of Things (IoT), more and more systems get interconnected, delivering new use cases that create more convenience for the consumers. In this connected world, products that were previously not connected to the internet are now equipped with wireless communication functions and can detect and interact with their environment.

Products that enable radio communication or radio determination will fall in the scope of the Radio Equipment Directive and assessment of compliance with its essential requirements will be required. Especially, the essential requirement related to health and safety, introduces an obligation to assess the human exposure to electromagnetic fields (EMF). As the radio equipment will emit radio waves, care needs to be taken that the limits of such EMF exposure will be respected when the product, non-radio or radio product, is equipped with wireless functions (a “combined product”). This document aims to guide manufacturers of such combined products in the assessment of their products with respect to the EMF requirements of the Radio Equipment Directive.

1 Scope

This document explains the application of harmonized and other EMF standards for placing on the market combined products with single or multiple radios to demonstrate conformity with the essential requirements laid down in article 3(1)(a) (health and safety of persons and domestic animals and safety of property) of the Radio Equipment Directive 2014/53/EU (RED) [1]. In particular this document addresses:

- the EMF conformity assessment of this type of product, including how to make use of EMF assessments already performed on each constituent product of the combined product and to identify the additional assessment necessary;
- the selection of the exposure limits for general public or for workers and test conditions.

The type of products covered by this document is a product consisting of the combination of two or more products where at least one of them is a radio equipment as defined in the RED.

Examples and types of products to be covered by this document include, but are not limited to, a combination of radio product(s) in radio product (e.g. Hi-Fi receiver with WPAN module integrated), combination of radio and non-radio product (e.g. domestic appliance with WLAN module integrated, radio-controlled lighting system, etc.).

2 Normative references

There are no normative references in this document.

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