



**Integrated broadband cable
telecommunication networks (CABLE);
Cable Customer Premises Equipment (CPE) with
Integrated Radio and Non-Radio Interfaces;
Technical Specification covering the cable equipment
technical requirements in support of
Harmonised Standards for the essential requirements
of article 3.1b of the Directive 2014/53/EU**

Reference

DTS/CABLE-00023

Keywords

CABLE

ETSI

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Integrated broadband cable telecommunication networks (CABLE).

Modal verbs terminology

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Introduction

In 2014 the new Radio Equipment directive has been published by the EU commission (Radio Equipment Directive 2014/53/EU, OJ L153 22 May 2014 [i.1]). This directive will replace the existing Radio & Telecommunication Terminal Equipment Directive (RTTED) 1999/5/EC [i.2]. The new directive has to be implemented into national law before the 13th of June 2016. Before this date, Harmonised Standards need to be developed to be compliant with the new requirements included in the Directive 2014/53/EU [i.1] such that Cable Customer Premises Equipment (CPE) with integral non-radio and radio network interfaces compliance to article 3.1 of Directive 2014/53/EU [i.1] may be verified.

The present document applies to Cable CPE with integrated non-radio and radio interfaces.

The schedule for the Radio Equipment Directive 2014/53/EU [i.1] is:

- 12th June 2014, RED [i.1] comes into force;
- 12th June 2016 is the date by when Member States are required to implement RED [i.1] into their national laws;
- July 2017 is a transition period for RED [i.1] during which period the RTTED [i.2] may still be used i.e. one year transition period.

A new product entering the market after the 13th June 2016 is required to meet the requirements of RED [i.1].

The RED [i.1] is replacing the RTTED [i.2], however as the name implies, RTTE has become RE (no more 'TTE') therefore Telecom Terminal Equipment (TTE), has been removed from the Radio Equipment Directive:

- Cable modems and cable receiver equipment with a non-radio network interface i.e. fixed line cable RF network interface, will continue to have to comply with all other applicable Directives. In terms of the Directives EMC [i.3] and LVD [i.4].
- New LVD [i.4] and EMC Directives [i.3] apply from 20 April 2016.

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1 Scope

The present document provides technical requirements for cable CPE with integrated radio and non-radio interfaces in support of Harmonised Standards for the essential requirements of article 3.1b of the Radio Equipment Directive 2014/53/EU [i.1].

Cable equipment comprises integrated non-radio and radio network interfaces. These functions are integrated either on the same integrated electronic components on the same printed circuit board or by separate integrated components on the same printed circuit boards but housed in the same equipment enclosure. The non-radio function is the Cable RF as specified by ETSI EN 302 878-2 [1] for data communication services and by ETSI EN 300 429 [2] for video communication services. The radio function is a wireless local area network operating in the 2,4 GHz and 5 GHz frequency bands according to IEEE 802.11 [3].

NOTE: Cable equipment does not comprise separate radio and non-radio products that are combined in one enclosure. Where cable equipment of this type exist then the essential requirements of article 3.1b of Directive 2014/53/EU [i.1] apply to the equipment and the equipment requirements are as specified by ETSI draft harmonised standard ETSI EN 303 446-1 [i.5], at the time of writing it is under development ETSI TC ERM WGEMC.

2 References

2.1 Normative 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>.

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

- [1] ETSI EN 302 878-2: "Access, Terminals, Transmission and Multiplexing (ATTM); Third Generation Transmission Systems for Interactive Cable Television Services - IP Cable Modems; Part 2: Physical Layer; DOCSIS 3.0".
- [2] ETSI EN 300 429: "Digital Video Broadcasting (DVB); Framing structure, channel coding and modulation for cable systems".
- [3] IEEE 802.11™-2012: "IEEE Standard for Information Technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications".
- [4] ETSI EN 302 878-3: "Access, Terminals, Transmission and Multiplexing (ATTM); Third Generation Transmission Systems for Interactive Cable Television Services - IP Cable Modems; Part 3: Downstream Radio Frequency Interface; DOCSIS 3.0".
- [5] CENELEC EN 60728-1: "Cable networks for television signals, sound signals and interactive services - Part 1: System performance of forward paths".
- [6] ETSI EN 301 489-1: "ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Harmonised Standard covering the essential requirements of article 3.1(b) of the Directive 2014/53/EU and the essential requirements of article 6 of the Directive 2014/30/EU; Part 1: Common technical requirements".