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Radijska oprema in sistemi (RES) – Digitalne evropske brezvrvične telekomunikacije (DECT) – Avtentikacijski modul (DAM) za DECT

Radio Equipment and Systems (RES); Common air interface specification to be used for the interworking between cordless telephone apparatus in the frequency band 864.1 MHz to 868.1 MHz, including public access services

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New presentation - see History box

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Foreword

This Interim European Telecommunication Standard (I-ETS) has been prepared by the Radio Equipment and Systems (RES) Technical Committee of the European Telecommunications Standards Institute (ETSI) and has been adopted having undergone the ETSI standards approval procedure.

Parts of this I-ETS were prepared by the British Standards Institution (BSI), by the United Kingdom Department of Trade and Industry (DTI) and by those companies listed in Annex H. It contains information and copyright material, the property of these organisations. The connection of equipment specified here to the Public Switched Telephone Network (PSTN) is covered in prETS 300 001 [1].

Every I-ETS prepared by ETSI is a voluntary standard. This I-ETS contains text concerning the type approval of the equipment to which it relates. This text should be considered solely as guidance, and does not make the I-ETS mandatory.

The standard includes two types of requirement: those that are required in all units; and those that are optional in a unit, but shall be implemented in the specified manner if provided. The specifications of parts one and two are requirements unless otherwise stated. The specifications of part three are optional unless otherwise stated. The specifications of part four are requirements unless otherwise stated. The tests specified in part five shall be passed by all units where the tested feature is provided.

Annexes A to D and Annex J of this standard are normative. Annexes E to H and K to L are informative.

Introduction

This specification covers the minimum performance requirements for fixed and portable radio units used with the second generation cordless telephone (common air interface) CT2 (CAI) service operating in the band 864,100 MHz to 868,100 MHz.

This specification is intended to allow a user to migrate from one cordless telephone environment (public or private; telepoint, domestic or PBX) to another without having to change, or having to purchase additional, radio equipment.

The specification is divided into five main parts:

Part 1: The radio interface (Clause 4): This part covers the minimum radio frequency performance requirements including channel frequencies, modulation and channel selection.

Part 2: Signalling layers one and two (Clauses 5 and 6): There are three layers of signalling requirements for the radio units. The first two layers are detailed in this part.

Signalling layer one covers aspects such as time-division duplexing, data multiplexing, link initiation and handshaking. This layer allows systems to obtain mutual synchronisation over a digital synchronisation channel and provides bi-directional data channels for digital signalling data and digital speech data.

Signalling layer two covers the signalling channel protocols, message formats, error detection, error correction and message acknowledgement. This layer allows systems to communicate over an established link using data and signalling channels which are established and maintained free from interference where possible.

Part 3: Signalling layer three (Clause 7): This part defines the structure of and attaches meanings to messages. Part of the message space is undefined in order to accommodate future expansion of services and facilities.

Part 4: Speech coding and transmission (Clause 8): This part specifies the requirements for the digital coding and transmission of analogue speech information.