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Information technology — Telecommunications and information exchange between systems — Close capacitive coupling communication physical layer (CCCC PHY)

Technologies de l'information — Téléinformatique — Couche physique pour communication par couplage capacitif fermé

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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives or www.iec.ch/members_experts/refdocs).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html. In the IEC, see www.iec.ch/understanding-standards.

This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems* in cooperation with Ecma International.

This second edition cancels and replaces the first edition (ISO/IEC 17982:2012), which has been technically revised.

The main changes compared to the previous edition are as follows:

— The document has been fully aligned with the editorial rules in ISO/IEC Directives, Part 2.

— Annex B has been added to guide an implementation for small size and low power devices.

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Information technology — Telecommunications and information exchange between systems — Close capacitive coupling communication physical layer (CCCC PHY)

1 Scope

This document specifies the close capacitive coupling communication physical layer (CCCC PHY) for full duplex and broadcast communication in time slots on frequency division multiplex channels.

NOTE An implementation for small size and low power devices is provided in Annex B.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 7498-1, *Information technology — Open Systems Interconnection — Basic Reference Model: The Basic Model*

ITU-T Rec. V.41, *Data communication over the telephone network — Code-independent error-control system*

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 7498-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

3.1.1
listener
entity that does not initiate communication

3.1.2
talker
entity that initiates communication

3.2 Abbreviated terms

CRC	cyclic redundancy check
CCCC	close capacitive coupling communication
DUT	device under test

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