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Household appliances interworking —

Part 2: Data structures

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The UK participation in its preparation was entrusted to Technical Committee CPL/59, Performance of household electrical appliances.

A list of organizations represented on this committee can be obtained on request to its secretary.

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ISBN 978 0 580 64067 4

ICS 97.120

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 July 2009

Amendments issued since publication

Amd. No.	Date	Text affected
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 50523-2

July 2009

ICS 97.120

English version

Household appliances interworking - Part 2: Data structures

Interfonctionnement
des appareils électrodomestiques -
Partie 2: Structures des données

Geräte für den Hausgebrauch -
Interworking -
Teil 2: Datenstrukturen

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: Avenue Marnix 17, B - 1000 Brussels

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Ref. No. EN 50523-2:2009 E

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Foreword

This European Standard was prepared by the WG 7 of Technical Committee CENELEC TC 59X, Consumer information related to household electrical appliances.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50523-2 on 2009-06-01.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2010-06-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2012-06-01

The Working Group CLC/TC 59X/WG 7, Smart house, was initiated by CECED and installed by the decision of the CLC/TC 59 meeting on 2004-09-14/15.

This Part 2 of EN 50523 defines the message data structures used for communication between household appliances. This part is to be read in conjunction with Part 1 “Functional specification” of this standard. Part 1 defines the interoperability requirements for installation, control and monitoring of household appliances.

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1 Scope

This European Standard specifies the message Data structures used for communication between devices that comply with the Household Appliances Interworking standard. It is a companion document to EN 50523-1, Functional specification.

2 Normative references

The following referenced documents are indispensable for the application 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.

EN 50523-1, *Household appliances interworking – Part 1: Functional specification*

3 Terms, definitions and abbreviations

For the purposes of this document, the terms, definitions and abbreviations given in EN 50523-1 apply.

4 Conventions for format

- Byte I is the I-th transmitted byte of the data field. To ease direct reading of data field, big endian is used.

Byte 0	Byte 1	Byte 2	Byte 3	Byte 4
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- If word fields consisting of two bytes are used then, the most significant byte is the first field.

Word	
Byte M	Byte M+1
Most significant byte	Least significant byte

- The format used for signed integer is 2's complement.
- The character set used for a string (array of characters terminated with a null character) is ASCII.

5 Functional Blocks Mapping

5.1 EXECUTE COMMAND

The table below defines the data structures used for all MIDs of the Functional Block EXECUTE COMMAND.