

STN	Diagnostické servisné rozhranie pre výrobky spotrebnej elektroniky a siete. Implementácia pre echonet.	STN EN 62394 36 8157
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Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Obsahuje: EN 62394:2014, IEC 62394:2013

119217

Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, odbor SÚTN, 2014
Podľa zákona č. 264/1999 Z. z. v znení neskorších predpisov sa môžu slovenské technické normy rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 62394

January 2014

ICS 33.160.99; 35.110

English version

**Service diagnostic interface for consumer
electronics products and networks -
Implementation for echonet
(IEC 62394:2013)**

Interface de diagnostic de service pour
produits et réseaux électroniques grand
public - Implémentation pour echonet
(CEI 62394:2013)

Kundendienst-Diagnoseschnittstelle für
Produkte und Netzwerke der
Unterhaltungselektronik - Implementierung
für Echonet (IEC 62394:2013)

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Foreword

The text of document 100/2182/FDIS, future edition 2 of IEC 62394, prepared by technical area 9: Audio, video and multimedia applications for end-user network, of IEC technical committee 100: Audio, video and multimedia systems and equipment was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62394:2014.

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IEC 62394

Edition 2.0 2013-09

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Service diagnostic interface for consumer electronics products and networks –
Implementation for echonet**

**Interface de diagnostic de service pour produits et réseaux électroniques grand
public – Implémentation pour echonet**



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IEC 62394

Edition 2.0 2013-09

INTERNATIONAL STANDARD

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**Service diagnostic interface for consumer electronics products and networks –
Implementation for echonet**

**Interface de diagnostic de service pour produits et réseaux électroniques grand
public – Implémentation pour echonet**

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PRICE CODE
CODE PRIX

XH

ICS 33.160.99; 35.110

ISBN 978-2-8322-1118-2

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CONTENTS

FOREWORD	7
INTRODUCTION	9
1 Scope	10
2 Normative references	10
3 Terms, definitions and abbreviations	10
3.1 Terms and definitions	10
3.2 Abbreviations	11
4 Different types of service diagnostics	12
4.1 Stand-alone products	12
4.2 Facilities or household appliances network	12
4.3 Remote diagnosis	12
5 SDI requirements	12
5.1 General	12
5.2 Hardware	12
5.3 Software	13
6 Tester software requirements	14
6.1 Reading the property diagnostic unit	14
6.2 General information (product identification)	14
6.3 Diagnosis information	14
7 Control protocol 1 st	14
7.1 General	14
7.2 Frame format	14
8 Control protocol 2 nd	42
8.1 General	42
8.2 Frame format	42
9 ECHONET objects: detailed specifications	55
9.1 Basic concept	55
9.2 ECHONET properties: basic specifications	56
9.3 Device object super class specifications	58
9.4 Temperature sensor class specifications	70
9.5 Humidity sensor class specifications	70
9.6 Illuminance sensor class specifications	71
9.7 Human detection sensor class specifications	72
9.8 Electric energy sensor class specifications	73
9.9 Open/close sensor class specifications	74
9.10 Current value sensor class specifications	76
9.11 Air speed sensor class specifications	77
9.12 Water flow rate sensor class specifications	78
9.13 Home air conditioner class specifications	79
9.14 Ventilation fan class specifications	99
9.15 Air purifier class specifications	100
9.16 Humidifier class specifications	101
9.17 Electrically operated shade class specifications	104
9.18 Electric water heater class specifications	105
9.19 Household solar power generation class specifications	111

9.20 Floor heater class specifications.....	113
9.21 Fuel cell class specifications	118
9.22 Storage battery class specifications.....	125
9.23 Electric vehicle charge-discharge system class specifications	133
9.24 Water flow meter class specifications	142
9.25 Power distribution board metering class specifications	146
9.26 Smart electric meter class specifications	166
9.27 Smart gas meter class specifications.....	177
9.28 General light class specifications.....	184
9.29 Refrigerator class specifications	187
9.30 Microwave oven class specifications	197
9.31 Washer and dryer class specifications.....	213
9.32 Clothes dryer class specifications.....	235
9.33 Cooking heater class specifications.....	237
9.34 Switch class specifications	243
10 Property map description format	244
Bibliography.....	245
Figure 1 – ECHONET frame for plain data format	15
Figure 2 – EHD detailed specifications.....	16
Figure 3 – Configuration of SEA and DEA when an individual address is specified	17
Figure 4 – DEA (broadcast-stipulated) address configuration	17
Figure 5 – Broadcast target stipulation code	18
Figure 6 – Node group stipulation bit specifications	18
Figure 7 – OHD detailed specifications	19
Figure 8 – EOJ detailed specifications	19
Figure 9 – EPC detailed specifications.....	21
Figure 10 – ESV detailed specifications	21
Figure 11 – EDATA configuration in property value write service	25
Figure 12 – EDATA configuration in property value read service	25
Figure 13 – EDATA configuration in property value notification service	26
Figure 14 – EDATA configuration in property value element-stipulated write service	27
Figure 15 – EDATA configuration in property value element-stipulated read service	28
Figure 16 – EDATA configuration in property value element-stipulated notification service.....	29
Figure 17 – EDATA configuration in property value element-stipulated addition	30
Figure 18 – EDATA configuration in property value element-stipulated deletion	31
Figure 19 – EDATA configuration in property value element-stipulated existence confirmation.....	32
Figure 20 – EDATA configuration in property value element addition	33
Figure 21 – EDATA configuration in property value notification (response required).....	33
Figure 22 – EDATA configuration in property value element-stipulated notification (response required)	34
Figure 23 – CpESV configuration	35
Figure 24 – Relationship between write request (requiring no response) and write "process-not-possible" response	38

Figure 25 – Relationship between write request (requiring a response), write "accepted" response, and write "process-not-possible" response.....	39
Figure 26 – Relationship between read request (requiring a response), read "accepted" response, and read "process-not-possible" response	40
Figure 27 – Notification message format	41
Figure 28 – Relationship between property value notification (requiring a response) and property value notification response.....	41
Figure 29 – Processing target property counter for three requests	42
Figure 30 – Property data counter.....	42
Figure 31 – ECHONET Lite frame format	43
Figure 32 – Detailed specifications of ELHD1	43
Figure 33 – Detailed specifications of ELHD2	44
Figure 34 – Detailed specifications of EOJ code	44
Figure 35 – ELSV code detailed specifications.....	45
Figure 36 – ELDATA configuration for property value write service (no response required).....	48
Figure 37 – ELDATA configuration for property value write service (response required).....	49
Figure 38 – ELDATA configuration for property value read service.....	50
Figure 39 – ELDATA configuration for property value write and read service	51
Figure 40 – ELDATA configuration for property value notification service.....	52
Figure 41 – ELDATA configuration for property value notification (response required) service.....	53
Figure 42 – EPC detailed specifications	54
Figure 43 – ECHONET Lite Property data counter	55
Figure 44 – Example of array elements	57
Figure 45 – Example of property value element deletion	58
Figure 46 – Example of property value element addition	58
Figure 47 – Data structure of "identification number" property	64
Figure 48 – Data structure of "manufacturer's fault code" property	65
Figure 49 – Air flow direction (vertical) setting	90
Figure 50 – Air flow direction (horizontal) setting	91
Figure 51 – Mounted air cleaning method	93
Figure 52 – Air purifier function setting	94
Figure 53 – Air refresh method.....	94
Figure 54 – Air refresher function setting	95
Figure 55 – Self-cleaning method.....	95
Figure 56 – Self-cleaning function setting	96
Figure 57 – Implemented ion emission method	104
Figure 58 – Daily timer setting	117
Figure 59 – Stove	240
Table 1 – Bit pattern for hop count.....	16
Table 2 – List of class group codes.....	20
Table 3 – List of ESV codes for requests	23
Table 4 – List of ESV codes for response/notification.....	23

Table 5 – List of ESV codes for “response-not-possible” responses	24
Table 6 – List of CpESV codes for request/notification	36
Table 7 – List of CpESV codes for “accepted” response	37
Table 8 – List of CpESV codes for “process-not-possible” response	37
Table 9 – List of class group codes	45
Table 10 – List of service codes for request	47
Table 11 – List of ELSV codes for response/notification	47
Table 12 – List of ELSV codes for “response not possible”	48
Table 13 – EPC code allocation table	54
Table 14 – Data types, data sizes, and overflow/underflow codes	57
Table 15 – List of device object super class configuration properties	59
Table 16 – Installation location (space) types and the bit values assigned to them	63
Table 17 – Fault-content property value assignments	67
Table 18 – List of temperature sensor properties	70
Table 19 – List of humidity sensor properties	71
Table 20 – List of illuminance sensor properties	71
Table 21 – List of human detection sensor properties	72
Table 22 – List of electric energy sensor properties	73
Table 23 – List of open/close sensor properties	75
Table 24 – List of current value sensor properties	76
Table 25 – List of air speed sensor properties	77
Table 26 – List of water flow rate sensor properties	78
Table 27 – List of home air conditioner properties	79
Table 28 – Air flow direction (horizontal) setting	91
Table 29 – List of ventilation fan properties	99
Table 30 – List of air purifier properties	100
Table 31 – List of humidifier properties	102
Table 32 – List of electrically operated shade properties	105
Table 33 – List of electric water heater properties	106
Table 34 – List of household solar power generation properties	111
Table 35 – List of floor heater properties	114
Table 36 – List of fuel cell properties	119
Table 37 – List of storage battery properties	126
Table 38 – List of electric vehicle charge-discharge system properties	133
Table 39 – List of water flow meter properties	142
Table 40 – List of power distribution board metering properties	146
Table 41 – List of smart electric meter properties	167
Table 42 – List of smart gas meter properties	177
Table 43 – Security data information property	182
Table 44 – gas consumption log information property	184
Table 45 – List of general light properties	184
Table 46 – List of refrigerator properties	187
Table 47 – List of microwave oven properties	198

Table 48 – Heating status property	204
Table 49 – Automatic heating setting property	205
Table 50 – Automatic heating cycle codes	206
Table 51 – Prompt message codes	210
Table 52 – 2 bytes bitmap definition for each accessory	211
Table 53 – List of washer and dryer properties.....	213
Table 54 – washer and dryer setting property	219
Table 55 – washer and dryer cycle option list 1 property	225
Table 56 – Washer and dryer cycle option list 2 property	225
Table 57 – Washer and dryer cycle option list 3 property	226
Table 58 – Current stage of washer and dryer cycle property.....	229
Table 59 – List of clothes dryer properties	236
Table 60 – List of cooking heater properties.....	238
Table 61 – List of switch properties.....	243
Table 62 – Property map description format.....	244

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SERVICE DIAGNOSTIC INTERFACE FOR CONSUMER
ELECTRONICS PRODUCTS AND NETWORKS –
IMPLEMENTATION FOR ECHONET**

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International Standard IEC 62394 has been prepared by technical area 9: Audio, video and multimedia applications for end-user network, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

This second edition cancels and replaces the first edition, published in 2006, and constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- addition of new message structure (frame format);
- updates of the device object super class specifications for the property configurations shared by all device objects;
- addition of the property configurations defined by each device object;
- updates of normative references.

The text of this standard is based on the following documents:

FDIS	Report on voting
100/2182/FDIS	100/2214/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

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INTRODUCTION

Consumer products are often repaired by service workshops, which service a wide range of products developed by different manufacturers.

For highly complex products, fault diagnosis becomes increasingly difficult and time consuming.

To facilitate diagnosis, manufacturers often develop built-in diagnostic software that communicates with an external diagnostic unit through a service diagnostic interface (SDI).

To avoid the need for a service workshop to purchase several different diagnostic units from different manufacturers for different products, a standardized SDI is proposed for use by all manufacturers of any products requiring a diagnostic interface. The result will be that only one SDI is needed in the service workshops.

The SDI should be suitable for diagnosis in a facilities or household appliances network in which different products from different manufacturers are connected together. The interface should also allow for future development.

The standard SDI should

- be usable in future products,
- be easily connectable to a product or a network,
- be inexpensive,
- not limit product design.

SERVICE DIAGNOSTIC INTERFACE FOR CONSUMER ELECTRONICS PRODUCTS AND NETWORKS – IMPLEMENTATION FOR ECHONET

1 Scope

This International Standard specifies requirements for service diagnostic software to be implemented in products that incorporate a digital interface. It does not specify requirements for carrying out remote diagnosis or for manufacturer-dependent software.

The SDI (Service Diagnostic Interface) requires an external controller (exclusive or general-purpose/PC) into which service diagnostic software can be loaded. Part of the controller software should be standardized while another part of this controller software should be unique to the manufacturer.

To reach a common approach in servicing all products from all manufacturers, it is necessary to standardize specific items to be tested in products and in controllers' diagnostic software.

The SDI is based upon the ECHONET specification version 2.11, ECHONET Lite specification version 1.01 and APPENDIX Detailed Requirements for ECHONET Device objects Release B because this interface will be used in future products. The use of this connection and existing communication protocols enable implementation in products at low cost, with maximum flexibility and efficiency.

The SDI consists of

- specific hardware and software requirements of the device under test (DUT);
- specific requirements of the controller:
 - the service software;
 - an ECHONET interface;
- the connection between the controller and the DUT.

This standard provides the minimal requirements necessary to carry out computerized diagnosis. It covers the standardized software of the controller as well as the standardized software and provisions in the DUT.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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