NSAI
Standards

Irish Standard
I.S. EN 50090-6-1:2017

Home and Building Electronic Systems (HBES) - Part 6-1: Interfaces - Webservice interface

I.S. EN 50090-6-1:2017

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on:	*Published:*
EN 50090-6-1:2017	2017-09-01

This document was published under the authority of the NSAI and comes into effect on:	ICS number:
2017-09-19	35.240.67 97.120
	NOTE: If blank see CEN/CENELEC cover page

NSAI	T +353 1 807 3800	Sales:
1 Swift Square,	F +353 1 807 3838	T +353 1 857 6730
Northwood, Santry	E standards@nsai.ie	F +353 1 857 6729
Dublin 9	W NSAI.ie	W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

National Foreword

I.S. EN 50090-6-1:2017 is the adopted Irish version of the European Document EN 50090-6-1:2017, Home and Building Electronic Systems (HBES) - Part 6-1: Interfaces - Webservice interface

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

For relationships with other publications refer to the NSAI web store.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

This page is intentionally left blank

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 50090-6-1

September 2017

ICS 35.240.67; 97.120

English Version

Home and Building Electronic Systems (HBES) - Part 6-1: Interfaces - Webservice interface

Systèmes électroniques pour les foyers domestiques et les bâtiments (HBES) - Partie 6-1 : Interfaces - Interface de services web

Elektrische Systemtechnik für Heim und Gebäude (ESHG) - Teil 6-1: Schnittstellen - Webservice Schnittstelle

This European Standard was approved by CENELEC on 2017-05-15. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Ref. No. EN 50090-6-1:2017 E

Contents

Page

European foreword

This document (EN 50090-6-1:2017) has been prepared by CLC/TC 205 “Home and Building Electronic Systems (HBES)”.

The following dates are fixed:

• latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2018-09-01
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2020-09-01

Introduction

The European Committee for Electrotechnical Standardization (CENELEC) draws attention to the fact that it is claimed that compliance with this document may involve the use of a patent.

CENELEC takes no position concerning the evidence, validity and scope of this patent right.

The holder of this patent right has assured CENELEC that he/she is willing to negotiate licences under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statement of the holder of this patent right is registered with CENELEC.

Information may be obtained from:

KNX Association De Kleetlaan 5, Bus 11

B-1831 Brussels-Diegem

Tel: +32 (0)2 775 86 44 Mob: +32 (0) 476 21 56 58 Fax: +32 (0)2 675 50 28

e-mail: info@knx.org

www.knx.org

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights other than those identified above. CENELEC shall not be held responsible for identifying any or all such patent rights.

1 Scope

This European Standard defines a standardized web service based interface between Home and Building HBES Open Communication System and other information technology (IT) systems.

The standardized interface is encapsulated in a gateway device, the *HBES Gateway*, which is able to communicate with both the Home and Building HBES Open Communication System and the connected IT systems. The HBES Gateway implements a set of encoding standards (see 10.2) as well as various message exchange protocols (see 10.3) to enable remote access to the Home and Building HBES Open Communication System via the Internet or another wide area network (WAN). For this purpose, gateway profiles define different implementation levels (see 10.4).

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.

EN 50090-1:2011, *Home and Building Electronic Systems (HBES) - Part 1: Standardization structure*

EN 50090-3-3, *Home and Building Electronic Systems (HBES) - Part 3-3: Aspects of application - HBES Interworking model and common HBES data types*

3 Terms, definitions and abbreviations

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 50090-1:2011 apply.

3.2 Abbreviations

For the purposes of this document, the following abbreviations apply.

BAS Building Automation System

BMS Building Management System

IoT Internet of Things

OASIS Open Building Information Exchange

WS Web Services

4 Overall introduction

Home and Building HBES Open Communication System is dedicated to the control and monitoring of networked building automation systems (BASs). Currently, Home and Building HBES Open Communication System has limited capability to communicate with other systems, as a result of the use of different protocols, incompatibility or various other restrictions. For the integration of Home and Building HBES Open Communication System and for solving specific problem scenarios, customized solutions are currently on offer. A standard interface between the HBES world and the remaining systems would however constitute a common link to bridge the gap and integrate Home and Building HBES Open Communication System into systems like the traditional Internet or the emerging Internet of Things (IoT).

A standard bridge between Home and Building HBES Open Communication System and IT systems based on Web services (WSs) is currently missing to support upcoming use case scenarios. This standard specifies such a standard interface.