

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

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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

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European foreword

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- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2020-09-01

Introduction

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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.