

 <p>Project Title:</p> <p>Helping elders to live an active and socially connected life by involving them in the digital society</p> <p>Contract no. AAL_08-1-2011-00011 (Magyar)</p>	<p>Deliverable reference:</p> <p><b>D7.3</b></p>	<p>Date:</p> <p>May 2015</p>
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	<p>Classification:</p> <p>Confidential</p>	
<p>Abstract:</p> <p>This report presents a description of a project to develop a web responsive application directed to the “assisted living” market.</p> <p>In this project we intend to develop a web responsive application with wireless sensors for monitoring health and environmental data. This application must also include a social component to offer functionalities such as chat, video call, shared agenda and games.</p> <p>Keywords:</p>		



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**NOTE:**

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**Document History**

Revision	Date	Author	Organisation	Description
<b>0.1</b>	<b>05.29.2015</b>	<b>Gergely Antók</b>	Kapsch	Initial structure and content

**Statement of Originality**

This deliverable contains original unpublished work except where clearly indicated otherwise. Acknowledgement of previously published material and of the work of others has been made through appropriate citation, quotation or both.

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## **Glossary of terms**

## **1 Introduction**

### **1.1 Project scope**

The „Helping elders to live an active and socially connected life by involving them in the digital society” project addresses the objectives of the call by offering a 360 degree user involvement methodology to examine how a new approach towards digital technologies can be harnessed to support the involvement of elderly people in digital society. The proposal intends to synthesize the skills, experience and knowledge of the consortium members in developing a state-of-the-art platform and service package backed with feasible business models which supports the on time and on budget realization and market introduction of the call objectives.

The project focuses on providing an enriched communication experience, anywhere, anytime and to any device with accessible, intuitive, easy to use, multimodal User Interfaces. We believe that the right service and the right content are only accepted by the end users if it is delivered on the right device, one that they are used to. This can be the screen of the television, mobile phones, etc. Our goal is to enable elderly people, their family and social surrounding to share their everyday experiences anytime, anywhere and help them make use of existing and currently developed multimedia services to generate the sense of closeness and community belonging they are searching for. This enriched experience, which allows users to share their emotions and experiences in a vivid and interactive way, requires a new approach both in services and the technology that supports them.

### **1.2 Purpose of this document**

The Deliverable 7.3 is intended to collect the standards related to the HELASCoL project.

### **1.3 Structure of the document**

This report is organized in several sections where section 1 contains the introduction of the report. On section 2 the applied standards are presented.

## **2 Applied standards**

### **ETSI TS 07.10**

### **RFC 2616**

### **Wi-Fi (802.11)**

Wi-Fi communication protocol is used in HELASCoL context to connect the WSN bridge to the Internet via a mobile access point or a wired access point. This link is used to forward messages and state changes from the WSN nodes to the remote collecting database via HTTP requests implementing a RESTful interface.

### **UART**

UART is a serial asynchronous communication protocol used to transfer data between two entities (either host or device) in a peer-to-peer mode.

### **USB 2.0**

USB is a specification for high-speed serial bus for communication between personal computers (host) and peripherals (device). This specification is typically used to implement UART over USB to configure and read debug information from the WSN nodes or the WSN bridge.

### **ZigBee (802.15.4)**

ZigBee or the proprietary stack XBee are communication protocols based on standard 802.15.4 and designed for low-bitrate devices like smart nodes building sensor networks or personal area networks. This protocol is used in the HELASCoL context for data exchange between the WSN nodes configured as router and the WSN bridge configured as coordinator. Communication is implemented using a simple character-based application protocol that includes source identifier, type of message and sensor state.