

ALFRED

Personal Interactive Assistant for Independent Living and Active Ageing



WP9 – Impact

D9.3.2 Workshop Report II

Deliverable Lead: TIE

Contributing Partners: AITEX, NFE, WORDLINE, ATOS

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This report presents the intended content and objectives of the second ALFRED workshop. It will detail how it will be organized, with which objectives and what the results should be.



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Project Partners

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 <p>Worldline, Spain</p>	 <p>Charité - Universitätsmedizin Berlin - Department of Geriatrics, Germany</p>
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Executive Summary

The second ALFRED workshop is in preparation. It is planned to organize a double session at the Ambient Assisted Living Joint Programme 2016 in St. Gallen Switzerland. The proposal for this session has been handed in on 18th March 2016 but is has not yet been approved.

The objective of this planned session is to focus on interoperability use cases. By the use of demos we want to present scenarios which show that ALFRED is the preferred platform to bring specialized devices and functionalities into the right context of use cases within the “silver market” domain.

Beyond the pure presentation of prototypes which integrate 3rd party components and thereby create total new and innovative use cases there will an interactive “hands-on” part, where the audience is asked to perform specific task and qualitative feedback will be collected via questionnaire.

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1 Introduction

ALFRED – Personal Interactive Assistant for Independent Living and Active Ageing – is a project funded by the Seventh Framework Programme of the European Commission under Grant Agreement No. 611218. It will allow older people to live longer at their own homes with the possibility to act independently and to actively participate in society by providing the technological foundation for an ecosystem consisting of four pillars:

- **User-Driven Interaction Assistant** to allow older people to talk to ALFRED and to ask questions or define commands in order to solve day-to-day problems.
- **Personalized Social Inclusion** by suggesting social events to older people, taking into account their interests and their social environment.
- A more **Effective & Personalized Care** by allowing medical staff and caretakers to access the vital signs of older people monitored by (wearable) sensors.
- **Physical & Cognitive Impairments Prevention** by way of serious games that help the users to maintain and possibly even improve their physical and cognitive capabilities.

This report presents the current of the status of the planned workshop at the AAL Forum on 26th -28th September, 2016.

1.1 ALFRED Project Overview

One of the main problems of western societies is the increasing isolation of older people, who do not actively participate in society either because of missing social interactions or because of age-related impairments (physical or cognitive). The outcomes of the ALFRED project will help to overcome this problem with an interactive virtual butler (a mobile device application also called ALFRED) for older people, which is fully voice controlled.

The ALFRED project is wrapped around the following main objectives:

- To empower older people to live independently for longer by delivering a virtual butler with seamless support for tasks in and outside the home. This virtual butler (the ALFRED app) aims for a very high end-user acceptance by using a fully voice controlled and non-technical user interface.
- To prevent age-related physical and cognitive impairments with the help of personalized serious games.
- To foster active participation in society for the ageing population by suggesting and managing events and social contacts.
- And finally, to improve caring by offering direct access to vital signs for carers and other medical staff as well as alerting in case of emergencies. The data is collected by unobtrusive wearable sensors monitoring the vital signs of ALFRED's users.

To achieve its goals, the project ALFRED conducts original research from a user centred perspective and applies technologies from the fields of Ubiquitous Computing, Big Data, Serious Gaming, the Semantic Web, Cyber Physical Systems, the Internet of Things, the Internet of Services, and Human-Computer Interaction. For more information, please refer to the project website at <http://www.alfred.eu>.

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1.2 Deliverable Purpose, Scope and Context

The purpose of this deliverable is to give a short overview of current organisational effort being made to successfully apply for a workshop session at the AAL Forum 2016.

1.3 Document Status and Target Audience

This document is listed in the Description-of-Work (Dow) as 'public', as it provides general information about the status second ALFRED workshop and can therefore be used by external parties in order to receive more information.

1.4 Abbreviations and Glossary

A definition of common terms and roles related to the realization of the ALFRED project as well as a list of abbreviations is available in the supplementary document "Supplement: Abbreviations and Glossary", which is provided in addition to this deliverable. Further information can be found at <http://www.alfred.eu>.

1.5 Document Structure

This deliverable is broken down in the following sections:

- Chapter 1 provides an introduction to this deliverable, including a general overview of the project, the purpose, scope and context, status and target audience of this report.
- Chapter 2 summarizes the objectives of the ALFRED Workshop I and will detail the preparations and set up.
- Chapter 3 gives an overview of the programme, speakers and contents of the Workshop I.
- Chapter 4 gives an overview of the attendants, feedback and general results.

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2 ALFRED Workshop Objectives and Preparation

This chapter gives an overview of the ALFRED Workshop objectives.

2.1 ALFRED Workshop Objectives

The silver market is increasingly overflowing with standalone gadgets and devices that can support seniors in their homes and on the road. Examples are alarm buttons, smart watches, bracelets to measure physical parameters, sensors at the home, etc. For seniors and their carer and supporters it is very difficult to find their way in the AAL market, obtain those solutions that are specific to their needs and use them in an easy manner.

This workshop will present and discuss the ALFRED Open Platform as a way to solve this issue. The ALFRED Open Platform aims to integrate and bring together these scattered services and devices in the AAL domain for the older end users.

The audience of the workshop will have the opportunity to test the open platform and an interactive session will be organized in the form of a World Café to come up with ideas for new use cases. The results of the workshop can be used to set up new collaboration opportunities.

2.2 ALFRED Workshop Preparations

The definition and organization of the second ALFRED workshop started in early February 2016. From discussions with partner about the objectives of this upcoming workshop it became obvious that it is wise to organize a workshop at the end of the ALFRED project. At that stage the infrastructure and eco-system of the project will be in such a state, so that real scenarios can be demonstrated and based on a well-established system, new ideas can be generated, as the system can be “touched”.

The following sections describe this preparation process.

2.2.1 Session at the AAL Forum 2016

Due to the success of the first workshop being held in the context of the AAL Forum 2014, it has been decided to apply for a double session for AAL 2016 with a different thematic focus.

Ambient Assisted Living Joint Programme (AAL JP). The AAL JP (Figure 1 shows the Logo of AAL JP) is a European funding activity that aims to create better conditions of life for older adults and strengthen opportunities in Europe through the innovative use of information and communication technology (ICT).¹ Within the programme a wide knowledge base has been created on ICT research and development. The AAL community is very much aligned with and interested in the ALFRED research objectives.

¹ See <http://www.aal-europe.eu/about/objectives/>

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Figure 1: AAL JP Logo

Once each year the AAL JP organizes the annual Ambient Assisted Living Forum. This is the main event of the AAL programme and is attended by a wide public from companies, research organizations, developers and end user organizations. In 2016 the event will take place from 26th to 28th September 2016 in St. Gallen, Switzerland.

The AAL Forum organized an official call for sessions (see Figure 2 for a screenshot of the AAL Forum website for the AAL Forum 2016).



Figure 2: Screenshot of AAL Forum 2016 Website

2.2.2 Session Proposal

The AAL Forum organized an official call for the submission of proposals for sessions. These sessions have to support the scope and reinforce the objectives of the AAL Forum. In order to present the ALFRED workshop as a side event, the ALFRED partners developed and submitted a proposal for evaluation by the AAL Forum. The proposal which was submitted on 18th March 2016 can be found in annex 1. The preliminary title of the ALFRED Workshop was defined as “**Open Framework & Interoperability - Creating innovative use cases by bringing together specialized devices and application frameworks**”.

2.2.3 The Website for Session Registration

Due to the good experience with 2014 workshop, registration process will be supported by a specific website which will be created.

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2.2.4 Promotion of the Session

It is planned that the session announcement will be spread on Social Media like LinkedIn, in the newsletter of the AgeingWell Community as well as the AAL website and the ICT4AGEING newsletter of DG Communications, Networks, Content and Technology of the European Commission. In addition, each partner will promote the workshop through its own networks, which allowed reaching a wide and diverse audience.

Furthermore it is planned to invite technical partner of other FP7 projects like Antilope, ReAAL, BRAID and Engaged.

2.3 Handouts

To be defined.

2.4 Date and venue

To be defined.

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3 The Session Workshop

This chapter goes further into the preliminary agenda of the planned session.

3.1 The Session Programme

ALFRED Open Platform:

This is a preliminary overview of the topics we would like to focus on in this session:

- Presentation of the ALFRED project and architecture as an example of an open platform / ecosystem to realize applications within the domain of independent living & active ageing.
- Enlarge capabilities / Prototype Presentation 1: exemplary implementation of a 3rd party service like Google Vision in a “Barrier-Free App” which e.g. OCRs text on images and reads it via TTS or detects objects.
→ Users are not restricted to the features available. Realize your own Use Case with just parts of the Ecosystem. Integrate 3rd party Services. Advantages of using 3rd party services through the abstraction layer “framework” instead of directly implementing them in the app.
- Enlarge capabilities / Prototype Presentation 2: exemplary implementation of an application using a 3rd party sensor which has run through a lean certification process before. The sensor will be provided by a specialized partner project (t.b.a.), which so benefits from the Open Framework ALFRED.
→ Collect & connect more helpful eHealth data by the use of certified sensors/devices.
- Demo and testing:
Demonstrate the easy usage of the provided technical infrastructure and resources to implement own applications.
Interoperability: identify other point of technical contacts with other systems and platform within the same field.
- Challenges in interoperability: exchange of data between system/frameworks. How to manage data privacy.

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3.2 Presentations

To be provided after the session.

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4 The Session Results

To be provided after the session.

4.1 Signed Participants

To be provided after the session.

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4.2 Feedback from Participants

To be provided after the session.

4.3 Lessons Learned from this presentation

To be provided after the session.

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Annex 1: AAL Forum 2016 Session

AAL FORUM 2016

Interactive Session / Workshop Information	
Thematic area:	Theme 1: Bringing AAL solutions from the idea to the market
Title of session and workshop:	Open Framework & Interoperability Creating innovative use cases by bringing together specialized devices and application frameworks
Name of session coordinator:	Jan Siegmund
Contact details of session coordinator:	T: +49-89-990164-173 E: jan.siegmund@tiekinetix.com
Name of session chair/ workshop leader:	t.b.d.
Names of speakers/experts	t.b.d.
Session Content	
Rationale & objectives:	
<p>The silver market is increasingly overflowing with standalone gadgets and devices that can support seniors in their homes and on the road. Examples are alarm buttons, smart watches, bracelets to measure physical parameters, sensors at the home, etc. For seniors and their supporters it is very difficult to find their way in the AAL market, obtain those solutions that are specific to their needs and use them in an easy manner.</p> <p>This workshop will present and discuss the ALFRED Open Platform as a way to solve this issue. The ALFRED Open Platform aims to integrate and bring together these scattered services and devices in the AAL domain for the older end users.</p> <p>The audience of the workshop will have the opportunity to test the open platform and an interactive session will be organized in the form of a World Café to come up with ideas for new use cases. The results of the workshop can be used to set up new collaboration opportunities.</p>	
Programme/method:	
<ul style="list-style-type: none"> - ALFRED Open Platform: Presentation of the ALFRED project and architecture as an example of an open platform / ecosystem to realize applications within the domain of independent living & active ageing. - Enlarge capabilities / Prototype Presentation 1: exemplary implementation of a 3rd party service like Google Vision in a "Barrier-Free App" which e.g. OCRs text on images and reads it via TTS or detects objects. <ul style="list-style-type: none"> → Users are not restricted to the features available. Realize your own Use Case with just parts of the Ecosystem. Integrate 3rd party Services. Advantages of using 3rd party services through the abstraction layer "framework" instead of directly implementing them in the app. - Enlarge capabilities / Prototype Presentation 2: exemplary implementation of an application using a 3rd party sensor which has run through a lean certification process before. The sensor will be provided by a specialized partner project (t.b.a.), which so benefits from the Open Framework ALFRED. <ul style="list-style-type: none"> → Collect & connect more helpful eHealth data by the use of certified sensors/devices. 	

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How to use your sensors in an open framework.

- Demo and testing:
Demonstrate the easy usage of the provided technical infrastructure and resources to implement own applications.
Interoperability: identify other point of technical contacts with other systems and platform within the same field.
- Challenges in interoperability: exchange of data between system/frameworks. How to manage data privacy.

Possible speakers/experts:

- Architecture / project overview: N.N. (Ascora)
- Using 3rd party services: N.N. (TIE Kinetix)
- Using 3rd sensors (Aitex / Atos)
- HandsOn: N.N.
- Interactive: N.N.

Summary of agenda:

- The Open Framework: architecture
- Extending capabilities 1: add your custom service.
- Extending capabilities 2: add your custom device/sensor.
- HandsOn: Evaluation Session
- Interactive: World Café
- WrapUp / Closing Discussion

Expected outcomes:

- Audience: Clear picture of capabilities of an Open Framework. Basic knowledge on the way resources can be used. Understanding of how application can be distributed via the marketplace.
- Awareness of different interoperability levels and the capability of the framework to be easily extended by adding custom services and devices.
- Understanding how to certify and use a specific device / sensor within an open framework like Alfred.
- Awareness of challenges within the context of interoperability and data privacy.
- ALFRED: create an overview and understanding of the project. Get feedback on feature and functionalities, i.e. interoperability:

How do you envisage to create interactivity between the participants?

- Evaluation Session: Prototypes to be tested / evaluated by small groups. Groups get a short instruction and must solve predefined tasks by using the prototype. Evaluation of the app / task with a questionnaire.
- Open Discussion (World Café) on presented use cases regarding interoperability and data privacy.

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