

User-tailored Care services platform: Adapting to personal & evolving needs & situations of patients

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1. Introduction

My poster focuses on the 'tailoring' of homecare services based on user requirements and preferences, and proposes an initial tailoring architecture to support the tailoring process.

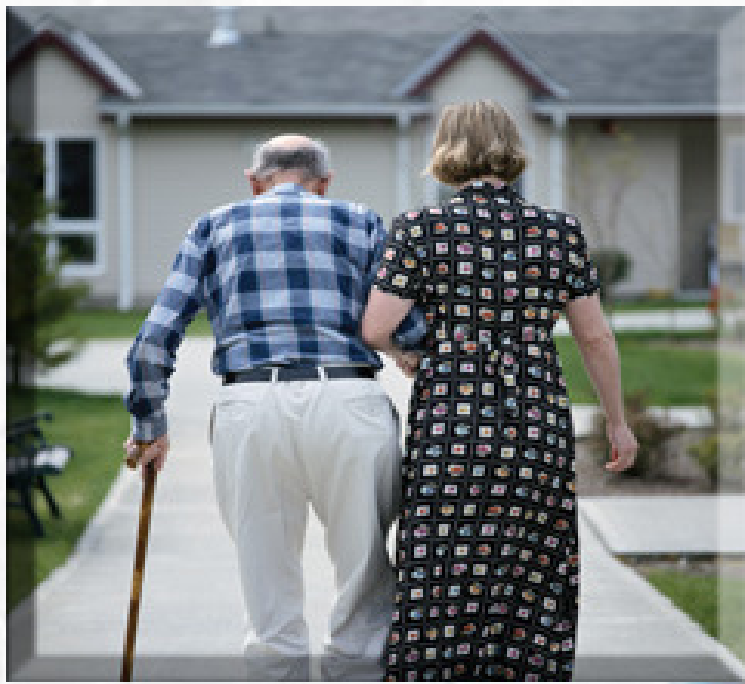


Fig. 1 U-Care is a **services layer** for integrated homecare systems, which provides **tailorable**, **evolvable** and **non-intrusive** homecare services.

2. Tailoring

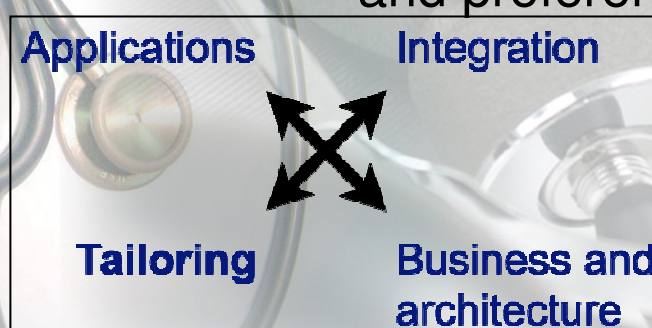
✓ **Key concerns of tailoring are:**

- Personalization: customize to a patient's unique needs and preferences.
- Evolution: adapt to changes w.r.t. a patient's abilities, condition and circumstances.

✓ **Motivation fir tailoring:**

- It is economically not feasible to develop personalized home healthcare systems for each individual patient.

▪ Instead, home healthcare systems must provide a set of patient-neutral health-related



Functions which are configured & composed according to the needs & preferences.

✓ **Different types of tailoring:**

- By user (patient or caregiver): manually tailor the system's services based on requirements and preferences.
- Automatically: sensor-triggered adaptation by the system. When the context of the user changes, the system based on predefined rules can make a decision and adapt to the new situation.

3. Tailoring architecture

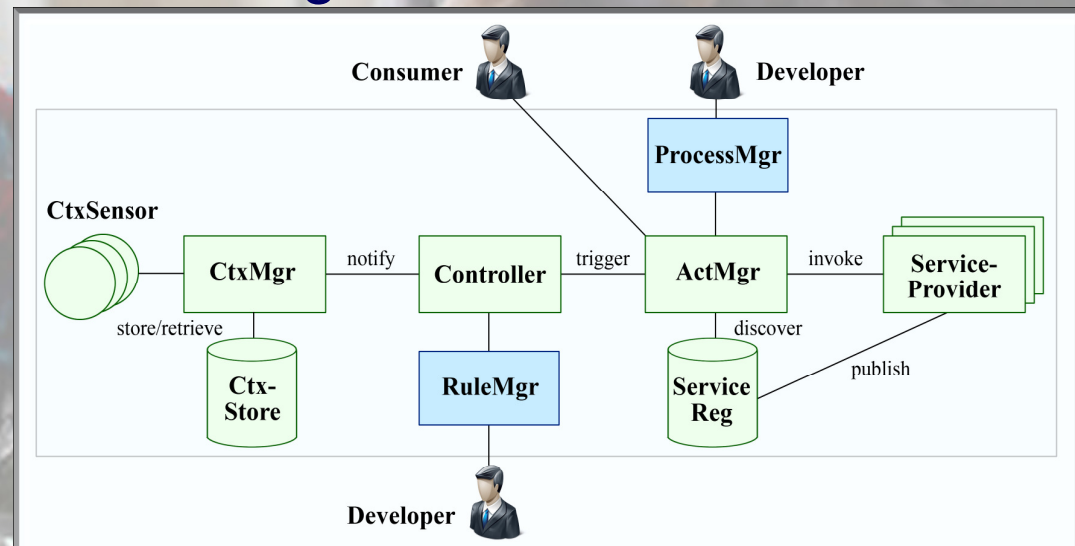


Fig. 2 U-Care tailoring architecture

4. Conclusion

Home healthcare systems are rapidly developing. However, to be effective and become accepted, home healthcare systems should offer functionality that matches the personal and continuously changing needs and preferences of the patient.

We have sketched an architecture for such tailorable services. This will be further developed in the course of the U-care project.

More Information: <http://ucare.ewi.utwente.nl>