### Scope

Specify HL7 FHIR logical models and profiles to be used within the European project [GATEKEEPER](https://www.gatekeeper-project.eu/) for supporting the GATEKEEPER HEALTHCARE SPACE, where intuitive and self-configuring dashboards, intelligent services for early risk detection and care plans, and a federated data infrastructure are provided to healthcare professionals.

This guide is developed as part of the Gatekeeper WP3 - Gatekeeper Web of Things (WOT) Reference Architecture.

### Introduction

GATEKEEPER is a European Multi Centric Large-Scale Pilot on Smart Living Environments. The main objective is enabling the **creation of a platform that connects healthcare providers, businesses, entrepreneurs, and elderly citizens** and the communities they live in, in order to originate an open, trust-based arena for matching ideas, technologies, user needs and processes, aimed at ensuring healthier independent lives for the ageing populations.

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| Impact  Figure 1 GATEKEEPER Objectives |

The creation of the platform, is supported by the following specific objectives, summarized in figure 1, including the delivery of:

* the delivery of the GATEKEEPER DIGITAL PLATFORM implemented through fault tolerant, secure, flexible and scalable micro-services infrastructure, based on open source and data standards, built on top of reference W3C-Web of Things architectural models and including services referred to the health domain through **HL7-FHIR** and to the home domain through SAREF.
* the delivery of the GATEKEEPER HEALTHCARE SPACE, where intuitive and self-configuring dashboards, intelligent services for early risk detection and care plans, and a federated data infrastructure are provided to healthcare professionals.
* The execution of a series of PILOTS to demonstrate the effect, benefit, value and scalability of the GATEKEEPER solutions around REFERENCE USE CASES COVERING PRIMARY, SECONDARY and TERTIARY PREVENTION, initially deployed in 8 regions of 7 European countries.
* The implementation of a STANDARDIZATION STRATEGY that allow the GATEKEEPER solution to be aligned with SDOs around legal and privacy aspects, healthcare, ageing, homes, cities and energies, IoT, Big Data and other Key Enabling Technologies, as well as value-based procurement.

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