



e-SENS European Interoperability Reference Architecture on its way

e-SENS [WP6 – Building Block provision](#) – aims to provide a coherent interoperability architecture with consolidated reusable building blocks for the implementation of digital services in Europe. Previous and ongoing LSPs have been delivering methodologies, specifications and implementations that form the architectural baseline for the e-SENS project. Following a comprehensive stocktaking phase, the project is proceeding with the development of the **e-SENS European Interoperability Reference Architecture (EIRA)**.

The e-SENS European Interoperability Reference Architecture (EIRA) is a reference architecture for delivering digital public services (across borders and sectors). It defines the required capabilities for promoting interoperability as a set of **Solution Architecture Templates (SATs)** such as e-ID, e-Signature, e-Document and e-Delivery, and their **Architecture Building Blocks (ABBs)**. The first iteration of EIRA will be presented in an upcoming deliverable (D6.2) to be available at the beginning of 2015. This deliverable is a result of a comprehensive process, where Building Blocks have been prioritized, put into architectures, aligned with [WP5](#) pilots, and consolidated. This gives a structured insight into the proposed architectures and their directions, which are intended for CEF, eIDAS, ISA, the European Commission (DG CONNECT, DG DIGIT, DG MARKT), Member States, and other Large Scale Projects.

The objective of the **e-SENS European Interoperability Reference Architecture (EIRA)** is to provide Solution Architecture Templates (SATs) to establish a foundation for domain-specific Interoperability Solution Architectures:

- Defining generic and coherent ICT Interoperability Architectures e.g. e-Delivery, e-Document, e-ID, e-Signature, that can be profiled and reused in many domain-specific Interoperability Solution Architectures.
- Containing or referencing generic ICT interoperability Building Blocks (specifications and software) and related ICT Artefacts (guidelines, methodologies, whitepapers and reports).
- Making e-SENS ICT Interoperability Building Blocks and related ICT Artefacts easily accessible.

Each SAT is a framework architecture, made up of Architecture Building Blocks (ABBs), which:

- Has specific objectives and roles in the SAT, i.e. fulfils specific generic Interoperability Requirements.
- References e-SENS recommended specifications and their implementation guidelines.

The objective of deliverable 6.2, presenting the first iteration of EIRA, is:

- To create a coherent ICT architecture that supports the first wave of pilots starting from March 2015.
- To focus on Business Modelling, Requirements, Analysis and Design of Generic Building Blocks (Inception and Elaboration phases).
- To focus on Solution Architecture Templates and Architecture Building Blocks.
- To prioritize Building Blocks from the stocktaking phase ([Deliverable 6.1](#)).



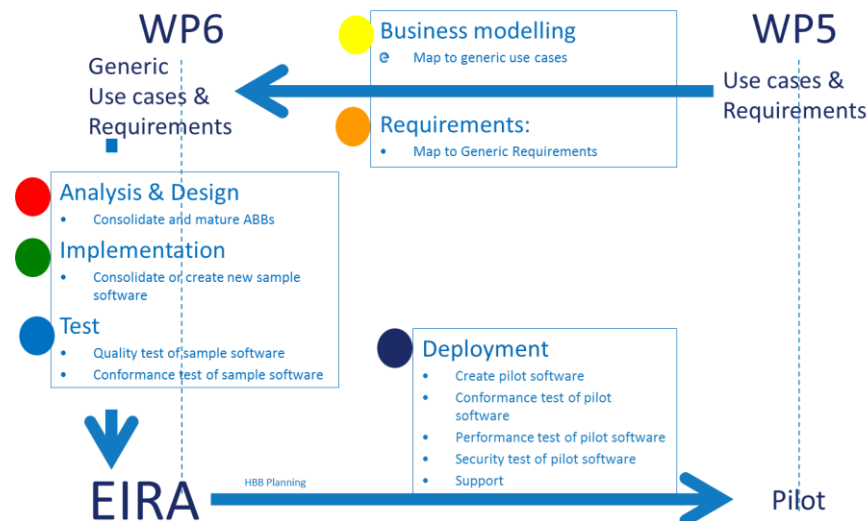


- To achieve alignment with the first-wave pilots through cooperation and to add transparency to the work on the Building Blocks.

The deliverable will be composed of two parts: a report, and the e-SENS EIRA electronic repository.

The report will present the background, structure and use of the e-SENS EIRA and will give transparency to the project by means of plans, risks and stakeholder lists. The e-SENS EIRA electronic repository will provide access to a number of Solution Architecture Templates and Architecture Building Blocks that are to be used in the e-SENS pilots.

All Building Blocks have undergone the following process, based on the Unified Process (UP)¹, where tasks such as Business Modelling, Requirements, Analysis & Design, Implementation, Test and Deployment have been conducted with the aim of ensuring alignment with WP5 – Piloting.



In the first iteration of the e-SENS EIRA, the general focus has been on the tasks of Business Modelling, Requirements, and Analysis & Design. In the upcoming period the focus will shift to the tasks of Implementation, Test and – especially in cooperation with WP5 (Piloting) – deployment into domain-specific pilots.

The second dimension of UP, with the phases of Inception, Elaboration, Construction1, Construction2 and Transition, provides the opportunity to differentiate the focus on each SAT, based on its consolidation and production readiness.

The ambition of e-SENS is to be fully compliant with the ISA EIRA. With the kick-off of ISA Action 2.1: European Interoperability Architecture, it is possible to align the work done under WP6 and the ISA EIRA project. The relation to ISA EIRA will be elaborated in D6.3, planned to be available in April 2015.

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¹ http://en.wikipedia.org/wiki/Unified_Process