Directorate General Informatics
Directorate D – Digital Services
DIGIT B2 - Interoperability

Introduction to the European Interoperability Reference Architecture

Essential Course Information

Essential course information

Course information	
Course Provider	European Commission
Course Title	**European Interoperability Reference Architecture (EIRA): Introduction**
Course Topic	Background and guidance for the implementation of EIRA.
Course Type	Online, self-contained, Scorm
Course tags	EIRA, European Interoperability Reference Architecture, implementation architecture, application of EIF, interoperability schema, metamodel, Digital skills in the public sector, Interoperability, Public Sector Innovation, Innovative Public Services, Interoperable Europe, IOPEU Academy, Interoperable Europe Academy, Technical interoperability
Course summary	The course will provide an introduction and orientation to the European Interoperability Reference Architecture (EIRA) for policy officers, business analysts and legal advisors, who collaborate with solution architects and contribute to the design on new interoperable public services. It will exemplify problem definition and look at analysis of requirements, before exemplifying with use cases. This is an introduction course that does not require specific previous knowledge for enterprise architectures and will be followed by more advanced courses, with the following courses looking in more detail at developing specific solutions. EIRA is an architecture content metamodel defining the architectural building blocks (ABBs) needed to build interoperable e-Government systems. EIRA provides a common terminology that can be used by people working for public administrations in various architecture and system development tasks. The course will provide an introduction to, as well as the structure and application, of the European Interoperability Reference Architecture. It will also provide high-level guidance on the tools and support that can help implement EIRA. The course will be a sequential 3 module structure, with a final assessment, and recap of main learning points. It will focus on knowledge focussed approaches, developing skills and understanding through interaction and hands-on experience in an engaging or interactive environment.

Target audience	The primary target audience will be primarily those with decision-making responsibilities in the area of interoperability application and implementation, and those with responsibility for designing implementation scenarios and architectures. They include:
	
	   o Public policy officers
	   o Business analysts
	   o Legal advisors
	   o Functional analysts
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Language	English (and others TBC)
Level	Intermediate. The course is addressed to roles who have proven and evidenced knowledge and competencies in the context of Digital Public Services design and interoperability, and who have completed the Introductory IOP courses and the Alignment of National Interoperability Frameworks to EIF. Courses at this level are split in 20-30 minute courses, providing insight into a specific topic in the area of interoperability. The courses are designed for those who have understood the importance of designing and implementing interoperable solutions within their context, and now require a practical guide to the specifics of implementation in various fields. The course will use the principles of instructional design methodologies based on learner-driven, constructivist approaches, focussing on learning as an active, iterative and problem-based process., with components focussed specifically on developing mastery of identified tasks.
Learning Objectives	1. Understand the principles and underlying concepts of EIRA 2. Be able to describe the objectives, use cases and expected benefits of EIRA 3. Be able to describe the main concepts of Archimate® Framework 4. Be familiar with the terminology and building blocks associated with EIRA 5. Demonstrate ability to undertake requirements analysis and problem definition in relation to a digital public service 6. Identify available in Joinup tools and solutions that can support the implementation of EIRA
References	1) Archimate® Library https://publications.opengroup.org/archimate-library?p=4

2) EIRA https://joinup.ec.europa.eu/collection/european-interoperability-reference-architecture-eira/about
3) EIRA guidelines for the TOGAF interoperability ADM cycle https://joinup.ec.europa.eu/collection/european-interoperability-reference-architecture-eira/solution/eira-guidelines-togaf-interoperability-adm-cycle
4) Detailed-level Interoperability Requirements Solution Architecture Template (DL SAT) Design Guidelines v1.0.0 https://joinup.ec.europa.eu/collection/european-interoperability-reference-architecture-eira/document/high-level-interoperability-requirements-solution-architecture-template-hl-sat-design-guidelines
5) EIRA Library of Interoperability Specifications (ELIS) https://joinup.ec.europa.eu/collection/common-assessment-method-standards-and-specifications-camss/solution/elis/release/v100-beta
6) Archi The Open Source modelling toolkit for creating ArchiMate models and sketches https://www.archimatetool.com/