



Interoperability Test Bed

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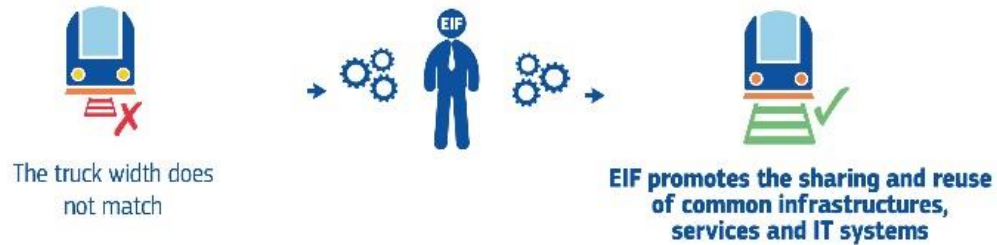
Head of Interoperability Unit, DG Informatics,
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DG DIGIT, European Commission

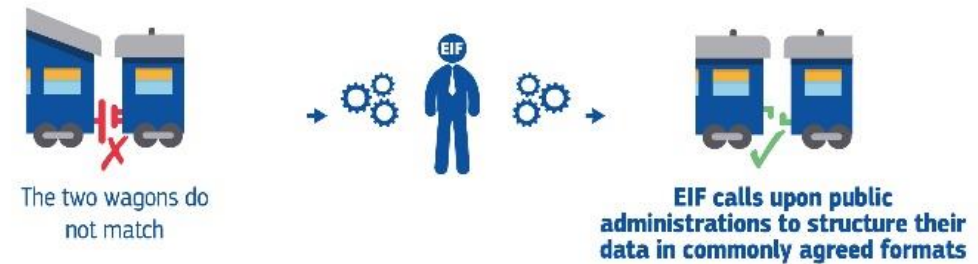
The European Interoperability framework (EIF)

4 LAYERS

TECHNICAL INTEROPERABILITY



SEMANTIC INTEROPERABILITY



ORGANISATIONAL INTEROPERABILITY



LEGAL INTEROPERABILITY



The ISA² Programme

- The ISA² Programme supports the development of digital solutions that enable public administrations, businesses and citizens in Europe to benefit from interoperable cross-border and cross-sector public services.
- ISA² is running from 1 January 2016 until 31 December 2020.
- The ISA² Programme supports 53 actions focused on the development of digital solutions in the area of interoperability.

- THE ISA² DIGITAL ACTIONS ARE ORGANIZED IN 9 TOPIC GROUPS:

- Key and generic interoperability enablers
- Semantic interoperability
- Access to data / data sharing / open data
- Geospatial solutions
- E-Procurement
- Decision making and legislation
- EU policies
- Supporting instruments for public administrations
- Accompanying measures



Interoperability Test Bed

- The platform provides interoperability and conformance testing for:
 - Simulation of a web service for clients to test against;
 - Validation of content sent or received through various channels;
 - Conformance testing against a message exchange protocol;
 - Verification of a complex message exchange as one complete conversation.



Interoperability Test Bed

Interoperability and conformance testing platform

IMOLA and ISA² Interoperability Test Bed

- **IMOLA PROJECT DEVELOPED THE EUROPEAN LAND REGISTRY DOCUMENT (ELRD)**
 - Provides an interoperability solution to the variations found in individual land registries
 - It is a template that formulates reference information in a common structure
 - Developed by means of an XML Schema
- **ISA² INTEROPERABILITY TESTBED HAS BEEN A PARTNER TO THE IMOLA PROJECT**
 - Support for the ELRD provided with validation

ISA² Testbed

- **Support for validation provided in 2 ways:**
 - Standalone online validator
 - Community in Testbed
 - Validation of ELRD content available for both version 3.0 and version 3.1
- **Further support being considered, including for the implementation of conformance test scenarios**

The screenshot displays the ISA² Testbed website. At the top, the 'ELRD validator' section features a 'Content to validate' dropdown set to 'File', a 'Select file...' button, and a 'Validate as' dropdown. A 'Validate' button is positioned below these fields. A red box highlights the 'Standalone validator' text. Below this, a small text line states: 'This service is powered by the ISA² Interoperability Test Bed, a conformance testing service offered by the European Commission's DG DIGIT for projects involved in the delivery of cross-border public services. Find out more here.'

The main navigation bar includes 'HOME', 'TESTS', and 'ADMIN' links, with a European Union flag icon on the left. The 'Home' section features the IMOLA logo (Interoperability Model for Land Registers) and a 'Welcome to the ELRD Test Bed' heading. A red box highlights the text 'ELRD on the Test Bed'. Below the heading, a list of steps for launching validation test cases is provided: 1. Click on TESTS. 2. [Administrators only] Select (or create if missing) the desired ELRD conformance statement. 3. Click the "play" icon to launch the test case(s). An alternative validation method is also described: 'Alternatively, ELRD documents can be validated in a standalone manner by means of its standalone validation service. This is an anonymous and stateless service that is available via web user interface and as a SOAP web service.'

At the bottom, a footer contains the text 'Find out more information on the ELRD specification and related activities on interoperability for Land Registers the IMOLA II project web site.' and a 'GITB' logo. The bottom right corner includes links for 'User guide', 'Contact support', 'Legal notice', and 'v1.8.0'.



ISA² programme

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ISA² Programme



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Run by the Interoperability Unit at DIGIT (European Commission) with 131€M budget, the [ISA² programme](https://ec.europa.eu/isa2) provides public administrations, businesses and citizens with specifications and standards, software and services to reduce administrative burdens.