



**EFIR Workshop (Webinar) – 1<sup>st</sup> session**

# **Joinup and the federation: History, rationale and further extension of the collections of interoperability assets**

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**24 April 2013**



ISA is undertaking a number of initiatives to promote reuse of **interoperability assets**



Highly reusable elements (reusable building blocks) of ICT solutions (i.e. framework, service or generic tool)



# About Joinup



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# joinup

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Share and reuse interoperability solutions for public administrations

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## Interoperability in Europe

Testing adding a banner

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**SEMIC 2013 - Semantic Interoperability Conference 2013**

Save the date!

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# Who publishes such assets?



We have identified many infrastructures that promote the sharing and reuse of interoperability assets both from European Member States as well as standardisation bodies and European Institutions.



...And who is interested  
to find such assets?



André would like to find standards, specifications, tools or services specific to the exchange of social security information between public administrations



Where could I find tools standards, specifications and tools which have been proven successful?

**André Caperville**

28 years old, Enterprise Architect

However...



He looks for such assets on Google but they are not easy to find...

The image shows a screenshot of a Google search interface. The search bar contains the text "standard for social security information exchange". Below the search bar, there are tabs for "Web", "Images", "Maps", "Books", "More", and "Search tools". The search results show "About 37,200,000 results (0.26 seconds)". The first result is "PROTECTUS - more efficient social security information exchange" with a URL "ec.europa.eu/idabc/en/document/5007/5584.html". The second result is "IDABC - EESSI (Electronic Exchange of Social Security Information)" with a URL "ec.europa.eu > European Commission > IDABC". The third result is "IDABC - Protectus" with a URL "ec.europa.eu > European Commission > IDABC". The fourth result is "Health Information Exchange" with a URL "https://ochin.org/services/hi/". At the bottom of the search results, there is a "Go" button and a "Next" button. Handwritten annotations in orange and red are present: a "1" in an orange circle points to the first result; a "2" in a brown circle points to the second result; a "3" in a red circle points to the "Next" button; and a "4" in a dark green circle points to the "Go" button. There are also handwritten notes in orange and red explaining the annotations.

Google standard for social security information exchange

Web Images Maps Books More Search tools

1 About 37,200,000 results (0.26 seconds)

[PROTECTUS - more efficient social security information exchange](#)  
[ec.europa.eu/idabc/en/document/5007/5584.html](https://ec.europa.eu/idabc/en/document/5007/5584.html)  
Policy background: **information exchange** to preserve citizens' **social security** rights ... format and XML **standards** for the exchange of **social security** information.

[IDABC - EESSI \(Electronic Exchange of Social Security Information\)](#)  
[ec.europa.eu](https://ec.europa.eu) > [European Commission](#) > IDABC  
EESSI (Electronic Exchange of Social Security Information) ... be developed to modular and rigorous software engineering **standards** - providing high availability ...

[IDABC - Protectus](#)  
[ec.europa.eu](https://ec.europa.eu) > [European Commission](#) > IDABC  
The project Protectus concerns all the **information exchanges** that take place among the **social security** administrations of the Member States, necessary for the ...

[Health Information Exchange](#)  
<https://ochin.org/services/hi/>  
Health **Information Exchange** OCHIN's network members are connected via the Epic ... Level Seven International (HL7) **standards**-based **information exchange**. ... the **Social Security** Administration (SSA), provides "production" exchange of ...

Go 1 2 3 4 5 6 7 8 9 10 Next

2

3

4

They are published on a multitude of websites

They are not grouped by context

Long process to retrieve the expected results

This costs time and effort



The [ISA programme](#) has designed a solution that would help André easily explore such assets on Joinup. This solution is composed by 2 main elements.



## A vocabulary to describe assets in a common way

<https://joinup.ec.europa.eu/category/licence/isa-open-metadata-licence-v11>



# ADMS

ASSET  
DESCRIPTION  
METADATA  
SCHEMA

# The solution of ISA



The [ISA programme](#) has designed a solution that would help André easily explore such assets on Joinup  
This solution is composed by 2 main elements.

## 2 A federation of these assets

The screenshot shows the Joinup search interface. On the left, there is a sidebar with filters for Node type, Repository of origin, Asset type (including Schema, Code List, Ontology, Domain Model, Service Description, Taxonomy, Information Exchange Package Description, Core Component, Thesaurus, and Mapping), Licence type, Themes, and Geographic coverage. The main search area shows a search bar and a list of results. Annotations are placed over the interface: 'A' is a green circle over the search bar; 'B' is a blue circle over the 'Geographic coverage' filter; 'C' is an orange circle over the first search result; and 'D' is a yellow circle over the second search result. Handwritten text annotations are also present: 'More focused' in green above 'A', 'More targeted' in blue below 'B', 'More relevant' in orange to the right of 'C', and 'Free and easy download of assets' in yellow below 'D'.

**A** More focused

**B** More targeted

**C** More relevant

**D** Free and easy download of assets



... but



However, the current catalogue does not allow to explore assets from all layers of interoperability

## Semantic

joinup

The image shows a screenshot of the Joinup search interface. On the left, there are two filter panels. The top panel, titled "Asset type", lists various asset types with checkboxes and counts: Schema (966), Code List (166), Ontology (107), Domain Model (45), Service Description (30), Taxonomy (24), Information Exchange Package Description (19), Core Component (8), Thesaurus (4), and Mapping (1). Below this list is a "Show more" link. The bottom panel, titled "Interoperability level", lists Semantic (231) and Technical (3). The main search area on the right has a search bar with a "Search" button and a "Sort by Relevance" dropdown. Below the search bar, there are search results. The first result is "CitizensLifeCycleEvents", created by Javier Gutierrez on 19 February 2013. It is described as the "First DRAFT version of the EU Citizen's Life Cycle Events" and includes a "Download" button and a link to download it. The second result is "EU Citizens Life Cycle Events", also created by Javier Gutierrez on 19 February 2013. It is described as an ontology developed by DG MARKT and includes a "Download" button and a link to download it. The third result is "SCL - International patent classification (IPC)", created by Joinup Federation Support on 08 February 2013. It is described as the Eurostat standard code list for international patent classification and includes a "Download" button and a link to download it.

# Future extension



The [ISA programme](#) plans to extend ADMS and the catalogue on Joinup to other types of assets

**Semantic**

**Legal**

**joinup**

**Asset type**

- Schema (966)
- Code List (166)
- Ontology (107)
- Domain Model (45)
- Service Description (30)
- Taxonomy (24)
- Information Exchange
- Package Description (19)
- Core Component (8)
- Thesaurus (4)
- Mapping (1)

[Show more](#)

**Interoperability level**

- Semantic (231)
- Technical (3)

Advanced search allows you, using the menu on the left, to apply different filters to your search.

Content Users Issues

**Search**

Advanced search helps you navigate through content available on Joinup by (de)selecting the search filters on the left-hand side.

Sort by Relevance ▾

Retain current filters

CitizensLifeCycleEvents  
Created by Javier Gutierrez | 19 February 2013  
First DRAFT version of the EU Citizen's Life Cycle Events  
[You can download it here](#)

<http://europa.eu/youreurope/citizens#CitizensLifeCycleEvents> First DRAFT version of the EU Citizen's Life Cycle Events You can download it here ...

EU Citizens Life Cycle Events  
Created by Javier Gutierrez | 19 February 2013  
DG MARKT has developed an ontology that describes the domain of Citizens' Life Cycle Events. The central element of this domain is a list of common topics related to important events of the life of EU citizens and their relation with EU and MS rights, conditions and formalities as the ones shown in the page "Your Europe Citizens".

Description A classification of topics for EU and national citizen's information portals axel.callabed@ec.europa.eu D ...

SC  
Cre  
Eu  
htt  
TargetUri=LST\_NOV

VRCHIC ...

**Organisational**

**Technical**

Before making it happen, the [ISA programme](#) needed to assess the current landscape with regards to interoperability assets in European MSs.

