



European
Commission

**Save time.
Reduce costs.**

Find and reuse
interoperability solutions
on Joinup for developing
European public services

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Public entities reducing lock-in: the way forward
Brussels, Belgium | 7 July 2014

Outline

- Context
- What is an interoperability solution?
- What is Joinup?
- Interoperability Solutions on Joinup
 - Use cases
 - Target audience
 - Main services provided to reusers and owners of interoperability solutions.

Context

- **ICT is a key enabler of modernisation of public administrations** across Europe.
- The **uncoordinated development** of ICT solutions leads to **duplication of effort, increased development times** and **costs**, and **non-interoperable systems**.
- The ISA Programme of the European Commission has developed the **vision to support the effective and efficient development of interoperable e-Government systems** by building **a culture of collaborative development, sharing and reuse of interoperability solutions** among public administrations.

What is an interoperability solution?

- The European Interoperability Architecture defines an interoperability solution as an implemented solution that facilitates the interoperability of electronic public services, i.e.
 - a common framework or specification,
 - a reusable generic software or tool,
 - a common service.

Standards-based solutions contribute to interoperability, which is necessary element to deliver cross-border public services that enable citizens and businesses to travel/work/study/do business within the EU, and which underpin one of the objectives of the European digital single market.

Four types



Technical

interoperability solutions

e.g. security specification, data architecture, interface specification, protocol, etc.

Semantic

interoperability solutions

e.g. code list, schema, taxonomy, core component, name authority list, thesaurus, ontology, etc.

Organisational

interoperability solutions

e.g. business rule model, business process model, memorandum of understanding, SLA, etc.

Legal

interoperability solutions

e.g. EU directive, licensing framework, licence template, national legislation, etc.

Share & reuse interoperability solutions

Do not reinvent the wheel!

Cost reductions, covering financial savings as well as effort and time savings.

- Instead of spending time and money on re-inventing the wheel and dealing with problems and challenges that their peers have already solved, European public administrations can tap into a pool of reusable solutions, which can be integrated into context-specific implementation in different Member States.

Interoperability of European public services.

- Reusing common principles, processes, data specifications and services enables the seamless communication and the exchange of information between disparate systems that support the delivery of European public services across borders and sectors.



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Where can I find reusable interoperability solutions?

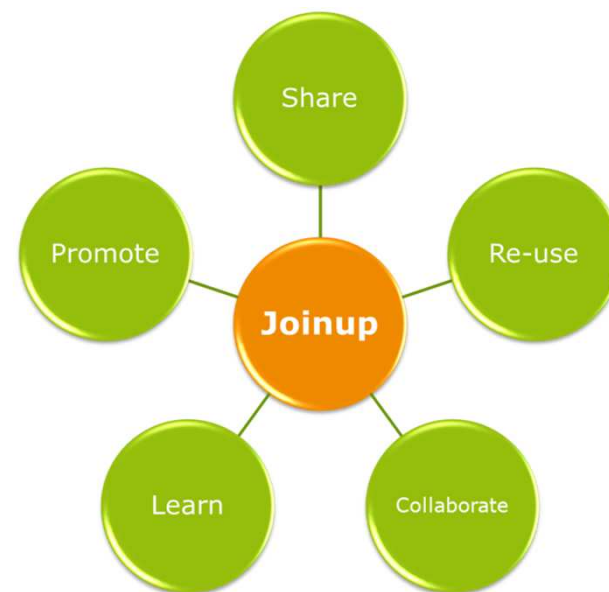
ISA



What is Joinup?



- A **multi-purpose platform**:
 - Interoperability observatory
 - Communities of interest around interoperability
 - Collaborative work environment
 - Catalogue of interoperability solutions
- Aims to facilitate the **sharing and reuse** of interoperability solutions made for public administrations
- Involves interoperability professionals **from all over Europe, and even outside of Europe**
- Funded by the **ISA Programme**



Interoperability Solutions on Joinup

Use cases

The **collection of interoperability solutions on [Joinup](#)** gives visibility to reusable solutions, thus promoting their reuse.

- **Browse and find** interoperability solutions
- **Publish** interoperability solutions
- **Coaching service** to ensure high quality interoperability solutions

Search for interoperability solutions

Discover, explore, share and reuse interoperability solutions such as code lists, schemas, ontologies...

Type: ☐ Framework ☐ Service ☐ Tool Language: Any language ▼

Keywords

[Advanced search](#)

1 to 20 of 2107 results

Date ▲

Title ▲

Downloads ▼

Rating ▲

ADMS 0.8



The Asset Description Metadata Schema (ADMS) is a common way to describe semantic interoperability assets making it possible for everyone to search and discover them once shared through ...

★★★★★

843 downloads

[Download](#)

Interoperability Solution | Created by [Malco Dekkers](#) | Last update: 03 January 2013

Core Person Vocabulary 1.00



Abstract The Person Core Vocabulary provides a minimum set of classes and properties for describing a natural person, i.e. the individual as opposed to any role they may play in society or the ...

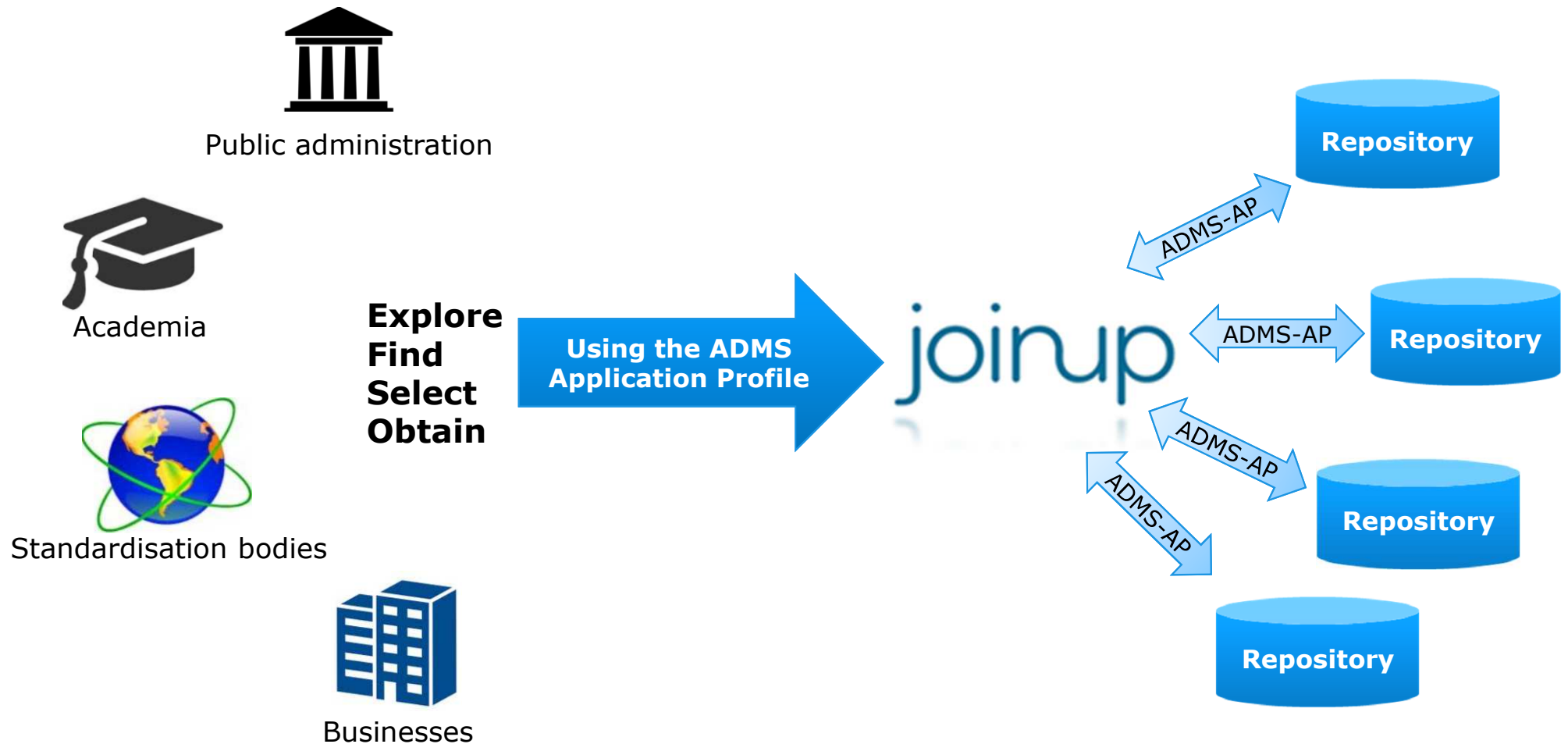
★★★★★

756 downloads

[Download](#)

Interoperability Solution | Created by [Phil Archer](#) | Last update: 18 February 2013

A federated architecture



ADMS-AP: Common vocabulary for all interoperability solutions

ADMS Application profile for Joinup (ADMS-AP)

A standards-based vocabulary for representing descriptive metadata for interoperability solutions of any type.

Based on the Asset Description Metadata Schema which is a W3C WG Note (<http://www.w3.org/TR/vocab-adms/>).

This extension implies:

- Extension of ADMS's **taxonomies** and **controlled lists**
- Alignment of **ADMS** (used for semantic assets) and **ADMS.SW** (for software)
- Ensuring **backward compatibility** to make sure that properties and classes introduced in former specifications can still be used.

Who is already sharing?

42 partner organisations

11 Member States



8 European Institutions



4 standardisation organisations



8 other stakeholders



9 Federated Forges



+ many individual contributors

= more than 5000 interoperability solutions

Reusers: What's in it for you?

- **Save time** and **reduce cost** and **effort** through the reuse of interoperability solutions
- **Direct your search** via relevant descriptive metadata
- Search interoperability solutions in one **central** repository
- Get legal and practical **guidelines** on reusing interoperability solutions
- Get **feedback** through **communities** of interoperability solutions and exchange experiences



Find and reuse solutions

Are you a (potential) reuser?

Are you about to kick-off the development a new e-Government system? Then don't start from scratch! Browse the interoperability solutions on Joinup and find the ones that can be reused in your context.

Save time, effort and money!

Share solutions

Are you an owner of collections of interoperability solutions?

Have you developed an interoperability solution and you would like others to know about it and reuse it? Then, take the opportunity and publish your interoperability solutions on Joinup to increase their visibility and reuse, and collect users' feedback on them.

Are you an owner of interoperability solutions?

Are you managing a collection of interoperability solutions and you would like to give visibility to it? Then take the opportunity and share your collection on Joinup to increase the visibility and the reuse of the interoperability solutions in it.

Owners of (collection of) interoperability solutions: What's in it for you?

- **Raise visibility and reuse** of your interoperability solutions by making them **easier to find**
- **Improve the quality** of your interoperability solutions based on **users' feedback**
- **Save time** by focussing on your projects instead of solving technical problems, i.e. hosting, webpages, forums, ...
- Build your own domain specific **communities**
- Get **support** for sharing your interoperability solutions on Joinup

Did you know that your work can be reused?

Sharing interoperability solutions on Joinup

1 Contact the Joinup team

The EFIR Team
will help you
identify the best
way to describe
your solutions with
ADMS

2 Describe your solutions using ADMS

Describe your
interoperability
solutions using
ADMS and save
the description as
RDF

3 Import your descriptions on Joinup

Propose a
federated
repository on
Joinup, and upload
the ADMS RDF file
or configure a
harvest URL

Conclusions

- The **ISA Programme** has several initiatives to promote the **sharing and reuse** of interoperability solutions
- One of those initiatives, **Joinup**, serves as a **multi-purpose platform**, offering among others a **Catalogue of interoperability solutions**.
- The **catalogue** hosts **four types** of interoperability solutions (technical, semantic, organisational and legal) and provides benefits for both **reusers** and **owners** of interoperability solutions.
- More than 5000 solutions are already available on the catalogue.



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Your questions...



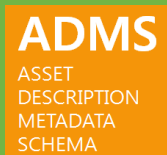
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