

JOINING UP GOVERNMENTS





D5.1.2 The Vision for a metadata standard for and an enhanced catalogue of free and opensource software for public administrations

Presentation for vision workshop



Context

A clear need for sharing and reusing free and open-source software (F/OSS)



The Digital Agenda for Europe and the EIF

interoperability

better administrative coordination

reuse

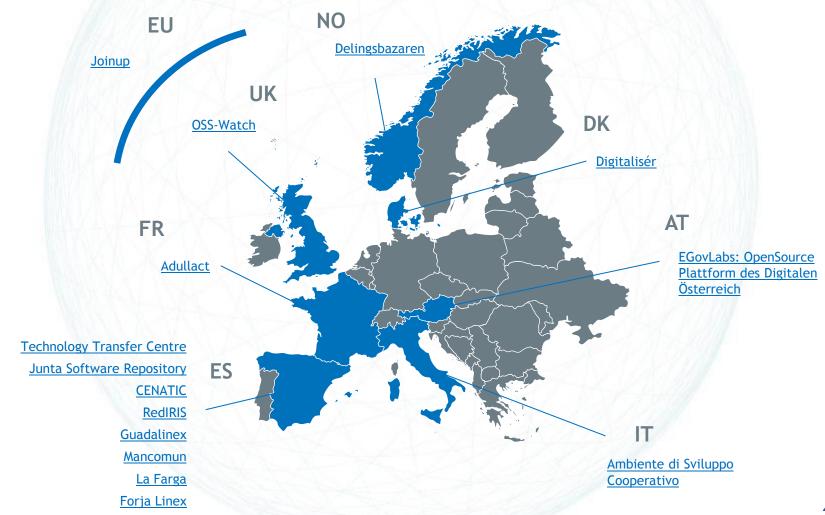
"Need for a better administrative coordination between public administrations and applications that are interoperable and based on open standards and open platforms"



The European Interoperability Framework (EIF) recommends public administrations to "reuse and share solutions and to cooperate on the development of joint solutions when implementing European public services. In this context, the EIF encourages applying the principle of openness when jointly developing custommade software systems.



Software catalogues in the EU public sector





Software catalogues in the EU public sector

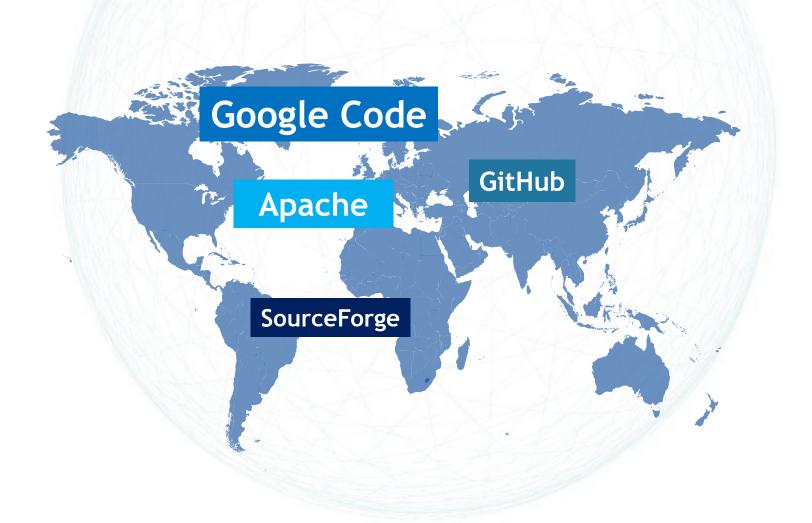


15 software forges and repositories have been constructed in 7 countries to encourage the sharing and reuse of F/OSS for public administration system development





General-purpose software catalogues





Stakeholder needs

ISA Programme

Encourage the sharing and reuse of interoperability solutions for public administrations across border an sectors.

Public administrations

Increasing need for cross-border and cross-sector digital interactions with external parties

The sharing and reuse of F/OSS for public administrations across borders and sectors corresponds to an actual and increasing need of important stakeholders

F/OSS projects

Attract public administrations to reuse their software and want to build a community of contributors. Equal visibility, independent of the hosting location.

Governments

Encourage the sharing and reuse of F/OSS for e-Government.



Problem

How to overcome information barriers to the sharing and reuse of F/OSS for public administrations?



Information barriers to the sharing and reuse of F/OSS

Language barrier

Lack of quality assurance

Lack of visibility

Features are not well documented

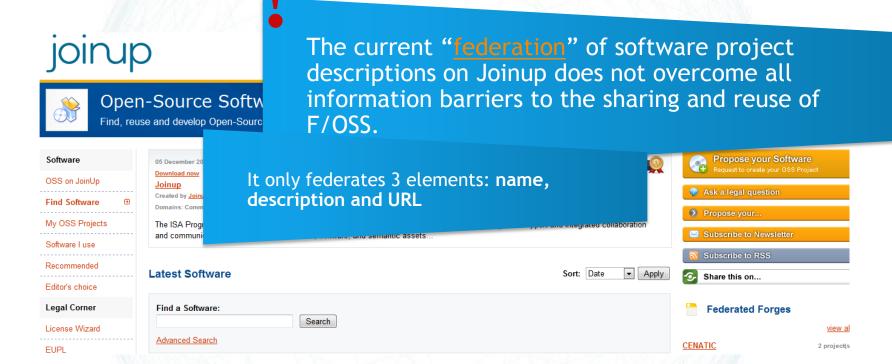
Lack of information on standards and specifications implemented by an F/OSS

Lack of confidence in F/OSS solutions

Limited view of public administrations usage of existing F/OSS solutions



Problems with the federated forges on Joinup



Dependent on a technology that is specific to GForge 4 and FusionForge. Software description metadata from other infrastructures cannot be automatically retrieved



Solution

- 1. Opportunities
- 2. An XML and RDF vocabulary to describe software assets
- 3. An enhanced, federated catalogue of F/OSS for public administrations



"Semantic Web" and "Linked Data"

Initiatives such as the "Semantic Web" and "Linked Data" are making it possible to integrate information from disparate information sources

Machine-readable format

Publication of software description metadata on the Web in an open, machine-readable format further enhances its visibility and reuse

Opportunities

DOAP specification

Several software catalogues provide or harvest software descriptions via the DOAP specification.

DOAP has become a de-facto standard to describe software projects on the Web.

ADMS

ADMS entails a opportunity for the ISA programme to relate (semantic) interoperability assets, to the sharing and reuse of, and free and open software for public administration system development.

Metadata harmonization

Several initiatives to harmonize metadata about software assets in the open-source community.

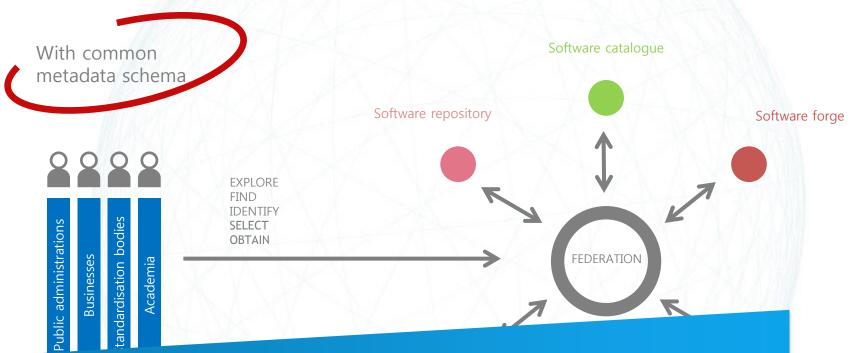


An XML and RDF vocabulary to describe software assets

Metadata category	Metadata property or relationship	Explore	Find	Indentify	Select	Obtain		
descriptive metadata	title	name	the title of the software in multiple languages	14				
	description	description, shortdesc	descriptive text in multiple languages					
	identifier		identifier for the software					
	URI	location	uniform resource identifier					
	version	version	version of the software release					
	related software		related software					
	is replaced by		a newer version of the software					
	release	file-release	a release of the software					
applicability	domain		the domain of the software (e.g. using EuroVoc descriptors)					
	spatial coverage		geographic region in which the software can be used					
	multilingual		whether or not the software can be configured to					
			the hand, there is the enhanced ta schema (ADMS.F/OSS)					



Building an enhanced, federated catalogue of F/OSS for e-Government



On the other hand, there is the ADMS-enabled federation of the different national software catalogues, repositories, and forges which enhances the sharing and reuse of F/OSS solutions.

catalogue



Advantages

overcome information barriers

Help overcome the information barriers related to the sharing and reuse of interoperability solutions among public administrations

A common specification to describe software assets on the Web will give better visibility, better search, help overcome information barriers and provide a better linking

Better visibility

Increased and equal visibility, independent of the hosting location.

Better search

Allows searching for software from a single point of access

Better linking

Build and explore semantic networks of people, free and open software, and open standards



Example 1: Simal - The software catalogue of OSS Watch



Simal Project and Community Registry Framework

Simal Perso	n Browser	Category Browser	Project Bro	wser DOA	AP Form	Reports	Tools	Add Project			
Project List People List											
Name:				Name:							
Showing 1 to Name	7 of 1915	<< < 1 <u>2</u> <u>3</u> <u>4</u> <u>5</u> <u>6</u> <u>7</u> <u>8</u> <u>Description</u>	<u>8 9 10 > >></u>	Showing 1	to 7 of 1	399 << ‹ <u>Email</u>	< 1 <u>2 3 4</u>	<u>5 6 7 8 9 10 ≥ >></u> Project			
14-19 prospectus pilot in the East	The project will aggregate 14-19 Area Prospectus course advertising information from at least four different areas into Aim Higher East Midlands' Progression Pathways database, as part of a wider pro An examination of cloud computing opportunities through action research in 157 Group colleges.			<u>Aaron</u> <u>Burrell</u>		urrel [at] suffolkad	Eng uk Edu	e East of gland's ucational source Network			
Midlands 157 Group				Adam Mannis	a.manni liverpool	s [at] acuk	Per Col lea	Supporting Personalised and Collaborative E- learning in Foundation Degrees			
18th Century parliamentary papers	The 18th century printed British parliamentary papers proposal originated from the community consultation carried out in early 2003. The aim of the project is to digitise up to 900,000 pages 18th century House of Commons and House of Lords reports and bills, creating a		Adam Rusbridge	A.Rusbr hatiiar	idge [at] tsglaad	UK uk Pro	LOCKSS Pilot gramme				
			ne project es 18th	<u>Adele</u> <u>Edgar</u>	adele.ed gmsaa		Lea	oporting Ongoing arning in artional Settings			
							ASI	PiS Architecture			



Example 2: The Software Catalogue of the Apache Software Foundation



The Apache Software Foundation

http://www.apache.org/



Home

Indexes

- Alphabetica
- Categories
- Language
- PMC
- Project Listing
- Releases
- Standards

<u>Feeds</u>

DOAP Files

- Guidelin
- Create a DOAP File
 DOAP File FAQ
- Categories
- Categories
- Programming Languages
- PMC

Documentation

- Dependencies
- PMC Data
- Standards

References & Thanks

Apache Batik



Batik is a Java-based toolkit for applications or applets to use images in the Scalable Vector Graphics (SVG) format for various purposes, such as display, generation and manipulation.

Programming Languages SVG

Categories <u>xml, graphics</u>

Mailing Lists http://xmlgraphics.apache.org/batik/mailing-list.html
http://issues.apache.org/bugzilla/buglist.cgi?

query format=specific&order=relevance+desc&bug status= open &product=Batik&content=

License Apache License Version 2.0
Project Website http://xmlgraphics.apache.org/batik/

PMC Apache XML Graphics

Project Release Information

Releases can be downloaded from http://xmlgraphics.apache.org/download.cgi

Most recent releases:

 Release
 Version
 Date

 Batik 1.6
 1.6
 2005-04-11

 Batik 1.7beta1
 1.7beta1
 2007-03-29

 Batik 1.7
 1.7
 2008-01-09

Access to the source code:

Browse http://svn.apache.org/viewcvs.cgi/xmlgraphics/batik/ SVN Direct http://svn.apache.org/repos/asf/xmlgraphics/batik/trunk



Part of a bigger solution

The provision of legal advice related to the sharing and reuse of F/OSS

The creation of procurement policies, regulations, guidelines, and processes to support the procurement of F/OSS

The maintenance of a software catalogue for public administration system development is not an isolated measure. Policy makers and public administrations need to continue to invest in a combination of measures:

The construction and maintenance of a catalogue of open-standards and a software catalogue for public administration system development;

Guidance with the effective support of a community of developers and users.





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Get involved: Join ISA Initiatives on Joinup

ADMS

ASSET DESCRIPTION METADATA SCHEMA CESAR COMMUNITY OF

COMMUNITY OF EUROPEAN SEMANTIC ASSETS REPOSITORIES CORE VOCABULARIES

CORE PERSON VOCABULARY CORE BUSINESS VOCABULARY CORE LOCATION VOCABULARY

ADMS F/OSS



