



ISA² Programme and IPv6

Addressing the Barriers to IPv6 Adoption

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ISA²

ISA² programme – Key facts



- EC programme supporting the development of interoperable IT solutions
- **Budget: 131M € for 2016-2020**
- Solutions developed upon proposals of the EU Member States and the EC Services
- Solutions facilitate transactions between public administrations, businesses and citizens
 - across borders
 - and/or across sectors
- Solutions mostly open source and available free of cost

ISA²

MORE THAN 20 YEARS DIGITISING PUBLIC ADMINISTRATIONS



1985-1992	1995	1999	2005	2010	2016	2020
CADDIA PROGRAMME	IDA Programme	IDAII Programme	IDABC Programme	ISA Programme	ISA ² Programme	ISA ² Programme
	Interchange of Data between Administrations	Follow-on programme of IDA	Interchange of Data between Administrations, Businesses and Citizens	Interoperability Solutions for Public Administrations	Interoperability Solutions for Public Administrations, Businesses and Citizens	Interoperability Solutions for Public Administrations, Businesses and Citizens

NEW EUROPEAN INTEROPERABILITY FRAMEWORK

Interoperability Governance



EIF 2017 add-ons



Policy

A policy described government, private "Statement of Inter important organiza

Alignment with policy development

- Digital Single Market (**EIF revision in the Roadmap**)
- Revised Directive on Public Sector Information
- eIDAS Regulation
- e-Government Action Plan 2016-2020

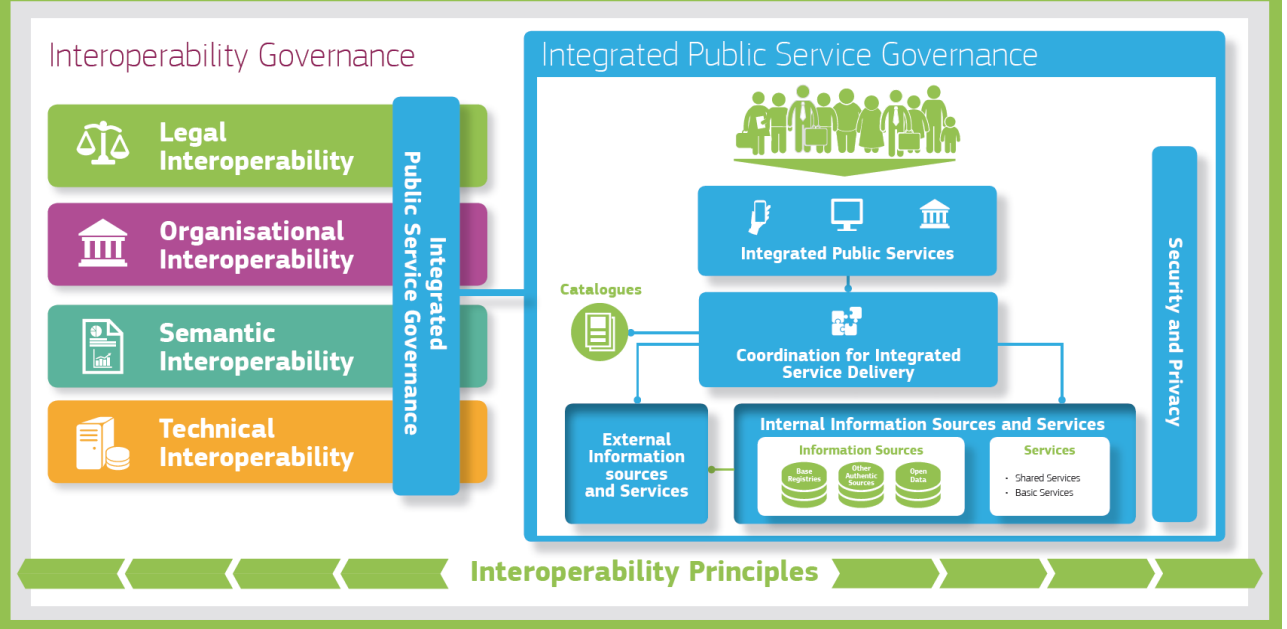
Alignment with emerging trends

- Interoperability governance
- Integrated service delivery
- Data/Information management
- European Interoperability Reference Architecture
- Security & privacy

More focus on EIF implementation

- More concrete recommendations
- Point to specific solutions that can facilitate implementation
- Interoperability Action Plan

EIF Conceptual Model



ISA² programme – The benefits



For public administrations



- Reduced time and cost for the development of IT solutions
- Solutions that work smoothly across borders and/or sectors
- High end-user satisfaction thanks to efficient administrative procedures

For businesses and citizens



- Quicker and cheaper administrative procedures
- Less red tape



ISA² programme – clusters



- IT solutions covering wide range of areas, e.g.
 - Key and generic interoperability enablers
 - Semantic interoperability
 - Access to data / data sharing / open data
 - Geospatial solutions
 - Eprocurement / eInvoicing
 - Decision making and legislation
 - EU policies
 - Supporting instruments for public administrations
 - Accompanying measures
- Overview at ec.europa.eu/isa2/, sections "actions" and "solutions"



ISA² Programme solutions



Check out our interoperability and open source solutions to cut red tape. More to come!

Key & generic interoperability enablers	Semantic interoperability	Decision making & legislation	EU policies -Supporting instruments	e-Procurement/ e-Invoicing	Geospatial solutions	Supporting instruments for public administrations
Secure document exchange platform eTrustEx	ArchiMate diagrams visualising e-Document lifecycle e-Docs	Data model to describe public services & associated life & business events CPSV-AP	Data communication network service TESTA	Describe datasets on data portals DCAT-AP	Commonly agreed models for public sector data Core Vocabularies	Model to describe open source and reusable solutions ADMS
Multilingual platform for collaborative thesaurus management VocBench3	Facilitate the editing of legislative texts LEOS	Gather statements of support online DCS for EClis	e-Procurement system for Public Administrations ePrior	Facilitate participation in public procurement across the EU ESPD	Map certificates necessary in public procurement e-Certis	Manage & share reference codes Re3gistry
Common assessment method for standards & specifications CAMSS	Platform for sharing & reuse of IT solutions for public administrations Joinup	Communication & Info Resource Centre for Administrations, Businesses & Citizens CIRCABC	National Interoperability Framework Observatory NIFO	EU IOP Reference Architecture & EU Interoperability Cartography EIRA & EICart	Open Project Management Methodology PM²	Create, manage and analyse online surveys & public consultations EUSurvey
Open source licence EUPL	Interoperability Maturity Model IMAPS	Interoperability & conformance testing platform IOP TestBed				



Why is IPv6 important?



- **Issues with IPv4 exhaustion**
 - Cybersecurity issue: CGN leads to massive IP address sharing
 - Difficulty to enter the market for new actors
 - Growing complexity of IPv4 network Management
- **A unique address for everything:**
 - Increase traceability
 - Foster innovation (e.g. IoT)
- **Role of Public Administrations**
 - PA at the forefront of Innovation, (e.g. Smart Cities)
 - Member States should lead by example

IPv6 is a Key and Generic Interoperability Enabler



IPv6 in European Commission



- **IPv6 action in ISA²**
 - One of the few related to Infrastructure
 - Contributes to Modernisation of Public Administration
 - Used by EC
- **Policy measures for IPv6 (JOIN/2017/0450) on Cybersecurity**
 - Official position to encourage IPv6 in its policies
 - Possible requirements in procurement, project and research funding
 - Encouraging MS to push IPv6 by ISP
- **IPv6 by DIGIT**
 - All external services have IPv6 addresses
 - Low internal adoption
 - Network Equipment is dual stack by default (IPv6 ready)

Strong Interest in the action results





ISA² programme *You click, we link.*

Stay in touch

ec.europa.eu/isa2

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Run by the Interoperability Unit at DIGIT (European Commission) with 131€M budget, the ISA² programme provides public administrations, businesses and citizens with specifications and standards, software and services to reduce administrative burdens.

