

Quality Label and Certification Processes

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Antilope Core and Experts Partners



































Antilope Validation Partners















TECHNIKUM WIEN

FACHHOCHSCHULE







Denmark, Norway, Sweden Finland, Iceland, Estonia, Lithuania, Latvia

Poland, Czech Republic, Slovakia, Hungary

Ireland, United Kingdom

Belgium, The Netherlands, Luxemburg

France, Switzerland,

Germany, Austria

Slovenia, Croatia, Serbia, Bosnia, FYE Macedonia, Montenegro

Italy, Malta

Portugal, Spain

Romania, Bulgaria, Greece, Cyprus, Turkey





Policy Context



The challenge

eHealth Deployment in Europe

The environment

Directive 2002/21/EC Common Framework on communication networks

Directive 2007/47/EC on medical devices

Directive 2011/24/EU on Patients' rights in Cross Border
Healthcare

MoU on eHealth between EC and US

Requirement

Consensus on a common Interoperability Framework For an harmonized implementation across Europe







Testing and Certification Objectives



To design a European quality label or certification process that supports eHealth interoperability in Europe.

These processes shall operate in harmony with country specific quality label or certification processes

Main benefits:

For Healthcare providers

- A harmlonized European market for the eHealth solutions
- Better integration between solutions
- Ability to exchange electronically medical data between Regions and Nations

For Industry

- One recognized quality label or certification process in Europe
- Avoid duplication between the national and regional testing processes
- Factor and mutualize specifications elements and corresponding testing tools

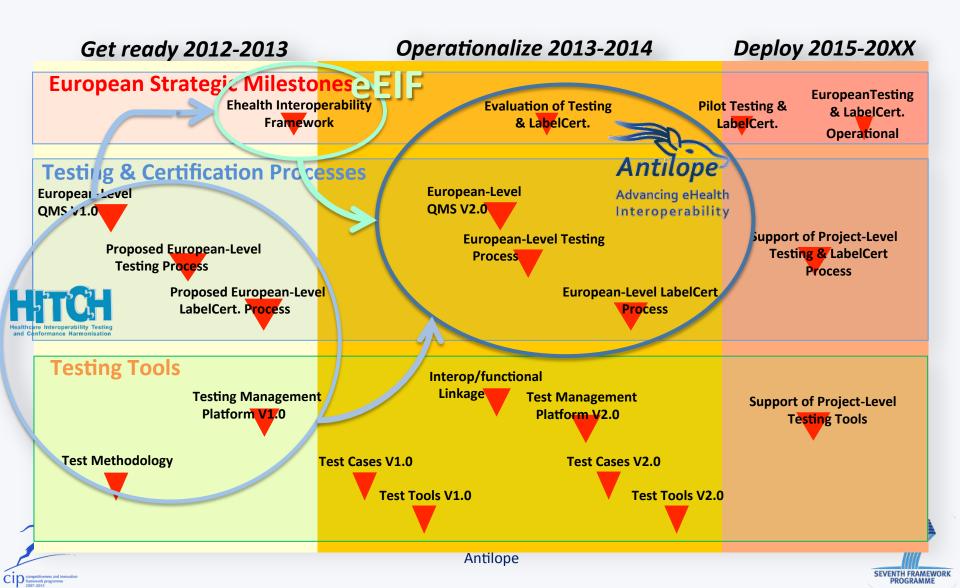






HITCH Roadmap







Key Recommendations



Stimulate the creation of European market based on the evolving European eHealth Interoperability Framework associated with a modular European Conformance Assessment Program

Harmonize the quality label and certification processes in Europe and among countries and regions

Propose a European interoperability quality label and certification process that allows for flexible national or regional approaches









Recommendations from previous projects

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HITCH

(Healthcare Interoperability Testing and Conformance Harmonisation)

EHR-Q^{TN}

(EHR Quality Labelling)







Antilope HITCH Project Recommendations



1	Develop an European ecosystem by promoting recognized profiles, test plans and test tools
2	Define flexible testing processes
3	Provide a European Interoperability Assessment Scheme







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EHR-Q^{TN} Project Recommendations



Apply generic criteria of quality to the initiatives

(independence, openness, impartiality, transparency and confidentiality)

Involve stakeholders to the definition of the priorities in defining feasible goals

Structure the Quality label and Certification processes in line with ISO standards









ANTILOPE Methodology







Methodologies



INPUTS from





ISO/IEC XXX

Experts



Standards and SDOs Project Questionnaires

• • • •

- Definition of an Interoperability testing strategy in Europe
- Key points to be taken into account:
 - cases, tools and test data
 - Definition of exhaustive/ mandatory/ realistic Use cases/ test cases
 - Risk assessments
 - End-users actively involved





Antilope 12





Testing, Quality labelling and certification processes Functional Model







Quality Label and Certification processes - Definitions



QL & C processes

 Requirements, activities and tasks to support an entity in organizing high quality interoperability assurance or certification

Conformity assessment

 demonstration that specified requirements relating to a product, process, system, person or body are fulfilled (ISO/IEC 17000)









A certification or quality label process requires:

- A Certification/Label Scheme Owner: a party that sets the Certification or a quality label program or system;
- <u>A label/Certification Body:</u> a party that issues the quality label or certificate on the basis of the conformity assessment performed by a conformity assessment body;
- A Conformity Assessment Body: a party that assesses the conformity of products, services and/or suppliers (often called a testing laboratory)



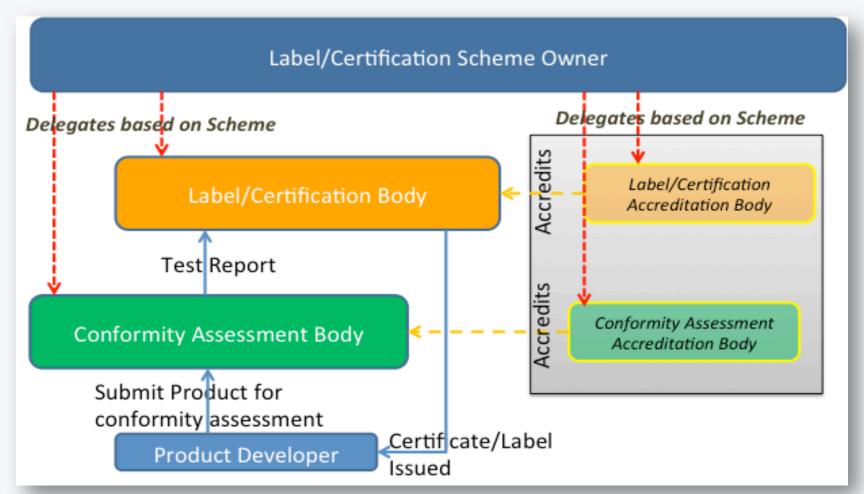


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Quality label and Certification Functional Model







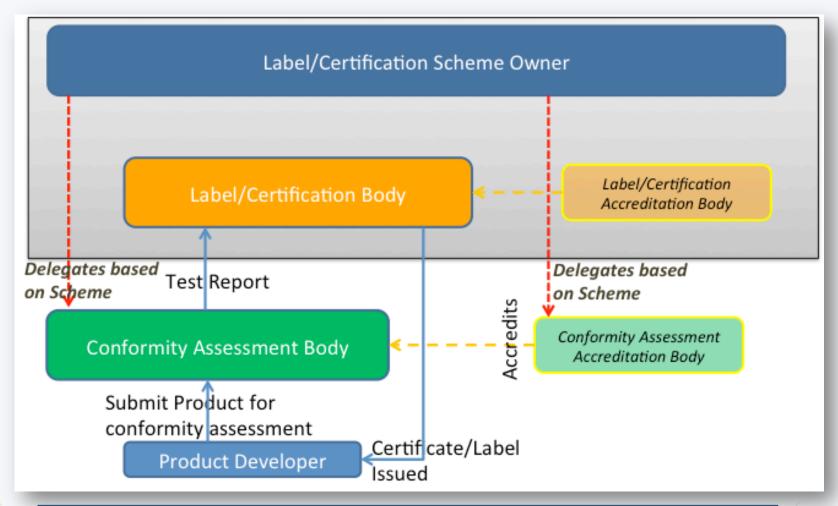




Implementation: Model 1









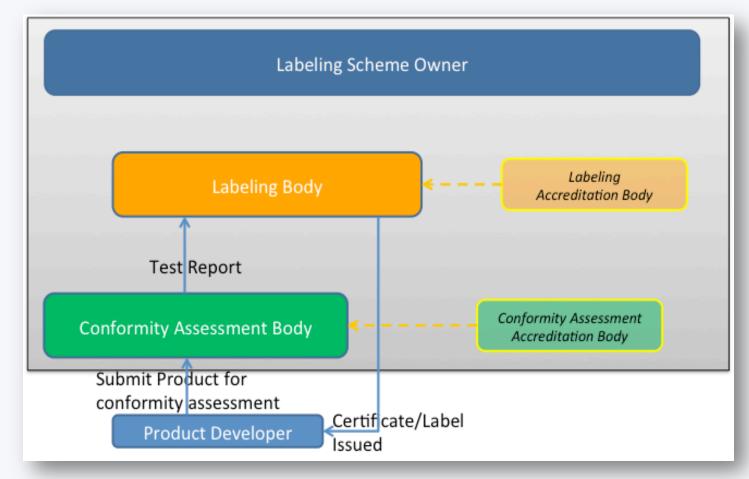




Implementation: Model 2



Labeling & testing by eHealth project (no third party accreditation)











Case Studies







Case study-1: DMP in France



• Objective:

- DMP is the national PHR/EHR in France
- The process called "homologation" is described in detail in the annex II.
 The goal of the « homologation » is to validate that the healthcare software connected to the DMP (French National PHR) are conform with the DMP specifications.
- Specifications defined by ASIP Santé (national agency) based on IHE profiles, HL7 and DICOM
 - Access to the DMP
 - INS (National Identification of the Patient)
 - Creation and management of the DMP
 - Registration of medical documents in the DMP
 - Consultation of the DMP
 - Other services
- Label/Certification scheme defined by ASIP Santé







Case study – 1 : DMP in France



					Technique
		Transactio	ons DMP pour LPS		Standards
Step 1	Registration of the Vendor to the proc Registration and published candidates				ou protocole utilisés
		ACCES SE	CONIDE AO DODDIEN		
		TD0.1	Authentification sur le DMP		SAML / TLS
	Access to the test environment		n DMP et vérification de l'autorisation		HL7-V3
Step 2	Access to the support		orisation		(ws)
			ıtorisés		(ws)
Pre-Homologation: upload files and validation of the tests ********************************					
	VISTRATIVE DU DOSSIER D'UN PATIENT				
		TD1.1	Création d'un DMP	_	
	Homologation and testing validation		OMP		HL7-V3
Step 3			tives d'un DMP		
Step 3	Update and bugs resolution				
	Final decision by the committee and publication of the results				(ws)
					(ws)
	the results				
		102.1	Aimentation en documents d'un DMP		
			CONSULTATION		
Label (Homologation) Process		TD3.1	Recherche de documents sur un DMP		IHE XDS-b
		TD3.2 TD3.3	Consultation d'un document sur un DMP		
			Gestion des attributs d'un document		
			ERVICES DU DMP		
		TD4.1			(ws)
Mapping Services/Standards and Profiles TD4 TD4 TD4			Correspondance entre PS et Patient		(ws)
			Traces d'un DMP		(ws)
			Traces d'un PS sur le DMP		(ws)
			Recherche de patient sur le DMP sans INS	\perp	IHE-PDQ
<u>*</u> –		TD4.9	Paramètres fonctionnels du SI-DMP		(ws)

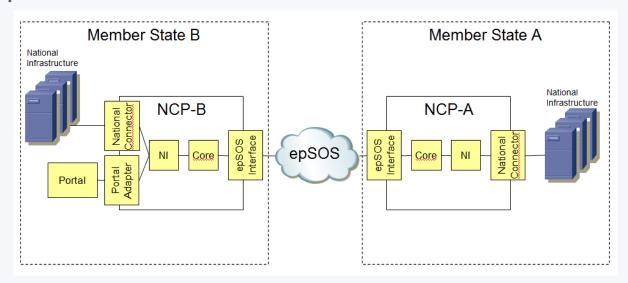




Case study 2 - epSOS



 Objective: epSOS is an European Project that the goal is to demonstrate cross-border interoperability between eHealth record systems in Europe by exchanging Patient Summary and ePrescription documents for a patient travelling in Europe.



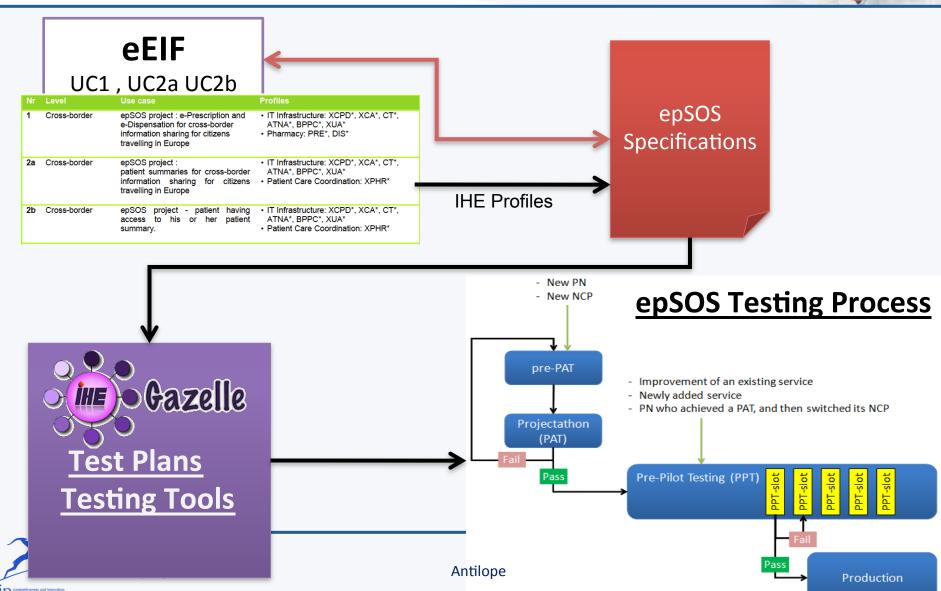






Case study – 2 : epSOS project









Harmonisation of the quality label or certification processes in Europe

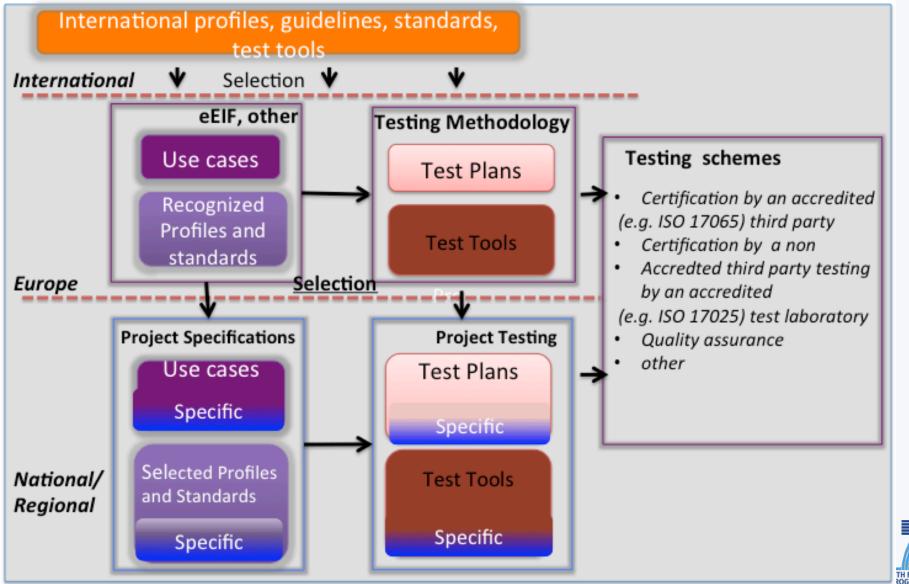






The Quality Label and Certification processes (1/2)







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In Europe: Three key steps



Promote creation of accredited Conformance Assessment Bodies in Europe	1	Define the Interoperability Conformance Assessment Scheme closely related with the eEIF
	2	

Develop Suitable Organisation for the QL&C process







At the National and Regional levels



1	National and Regional Project leverage profiles recognized by eEIF and use flexibility with needed national extensions
2	Ensure that the European level certification may be used as an entry criteria at the national level
3	Organise acceptance and the recognition of profiles candidates in the eEIF based on local use cases





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Governance

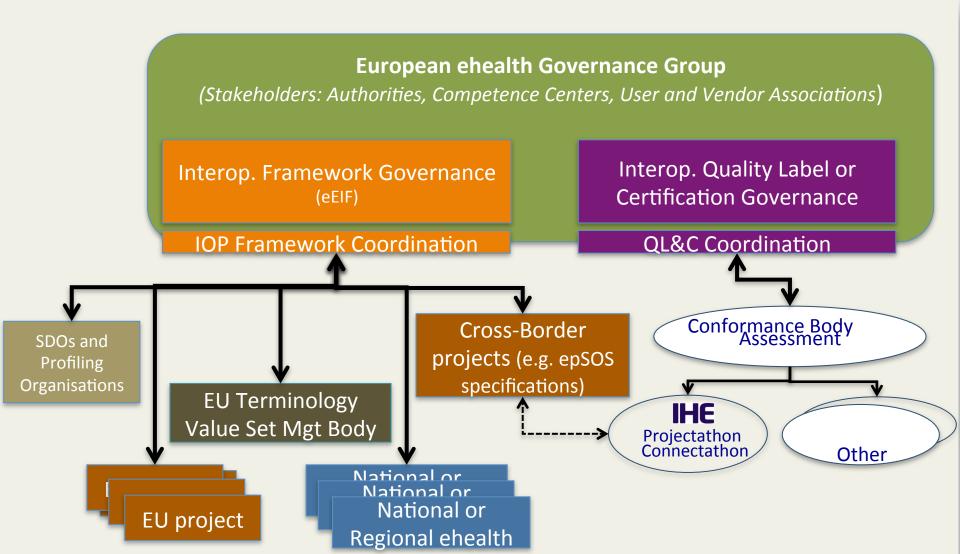






Governance







Governance



- European eHealth Governance group
 - All categories of stakeholders
 - Take decision and validates Interoperability framework and Conformance Assessment Program Scheme
- Interoperability Framework coordination
 - Refines, selects Use cases and profiles and maintains the eEIF
 - Analyses and prepares all the items in order to reach the consensus before validation by the eHealth Governance Group
- Conformance Assessment Scheme coordination
 - Specifies the Conformance Assessment Program scheme
 - Delegates the testing validation to the CABs





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Guidelines and recommendations

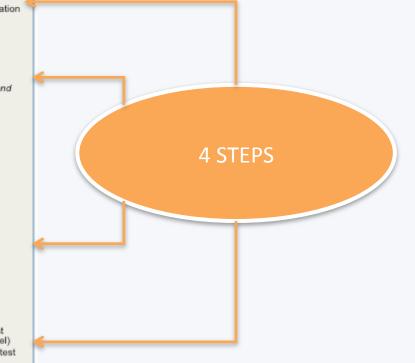




Step 1: Define your needs on Quality Label or Certification Input National/regional project using use cases, standards and profiles desscribed in the eEuropean Interoperability framework (eEIF - Antilope WP1) or other needs List of existing Test tools and test plans (Antilope WP3) Activities Analyse the gaps between the eEIF and the needs Specify the needs of QL or C regarding the specifications and requirements Step 1 Specify the Conformance Assessment Program scheme for the project Output Define Conformance Assessment Program scheme (CAPS) Specifications of the tooling needs your needs Step 2 Setting up the QL or C context Input step 1 output Activities Select existing test tools and test plans and describe what are missing Specify the tender for the development of the new test tools by following the recommendations of Antilope WP3 (open source recommended) Define the organisation: Is scheme owner,QL or C body the same organisation or two organisations and what are their level of recognition? Specify the testing process and procedures (WP2 QMS, ISO standards) Select the Conformance Assessment Bodies and their QL or C level Output Step 2 Organisation in place Selection of CABs Setting up Selection of organisations or companies that will develop new test tools and test plan Step 3: Execute and Report Input from the previous steps Recruit candidates for the QL or C Check whether the candidates have their EU label or certificate Step 3 Execute the test process Validate and report the results Publish the results Execute Output and Validation report, passed candidates report Step 4: Assess and Communicate Input from all the previous steps Activities Step 4 Evaluate the entire process (including the selection of specific profiles, test tools and test plan that can be shared at the European or International level) Assess Communicate on the existence of new use cases, profiles, test plans and test tools and add them in the inventory database and Communicate on the results of the QL or C process Output: Communi Communication plan Assessment Report Interoperability Framework to be communicated



How to deploy QL & C processes In your organisation, region, or Nation?



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Roadmap Key messages







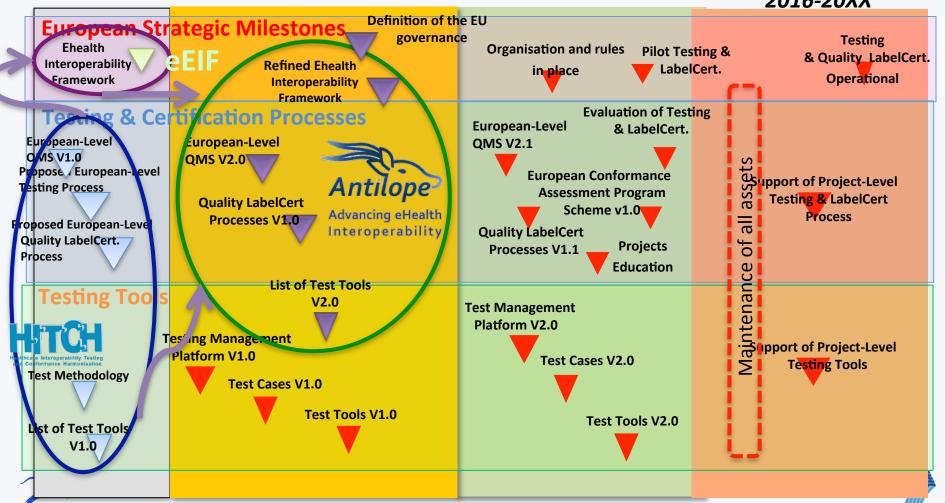
CID competitiveness and innor framework programme 2007–2013

Antilope roadmap



SEVENTH FRAMEWORK PROGRAMME

Get ready 2012-2013 Build 2013-2014 Operationalize 2014-2015 Deploy and Maintain 2016-20XX





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For more information, please refer to document D4.1. available on the Antilope website http://www.antilope-project.eu/













