

# ASSESSMENT SUMMARY v1.0.0

**Xforms 2.0<sup>1</sup>**

World Wide Web Consortium (W3C)<sup>2</sup>

---

<sup>1</sup> [https://www.w3.org/community/xformsusers/wiki/XForms\\_2.0](https://www.w3.org/community/xformsusers/wiki/XForms_2.0)

<sup>2</sup> <https://www.w3.org/>

# Change Control

Modification		Details
Version 1.0.0		
Initial version		

## TABLE OF CONTENT

<b>1. INTRODUCTION.....</b>	<b>4</b>
<b>2. ASSESSMENT SUMMARY .....</b>	<b>4</b>
2.1. Interoperability Principles .....	4
2.2. Interoperability Layers.....	6
<b>3. ASSESSMENT RESULTS .....</b>	<b>7</b>

## TABLE OF FIGURES

Figure 1. Interoperability principles Results .....	7
Figure 2. Interoperability layers Results .....	8

## 1. INTRODUCTION

The present document is a summary of the assessment of Xforms carried out by W3C using the CAMSS EIF assessment scenario. The purpose of this scenario is assessing the compliance of a standard or specification with the European Interoperability Framework (EIF)<sup>3</sup>.

## 2. ASSESSMENT SUMMARY

XForms is an XML markup for a new generation of forms and form-like applications on the Web. XForms is not a free-standing document type, but is integrated into other markup languages. As a published standard specification, one of the goals of Xforms is to promote common terminology and interoperability between access control implementations by multiple vendors.

### 2.1. Interoperability Principles

Interoperability principles are fundamental behavioural aspects that drive interoperability actions. They are relevant to the process of establishing interoperable European public services. They describe the context in which European public services are designed and implemented.

***The specification fully supports the principles setting context for EU actions on interoperability:***

- **Subsidiarity and proportionality**

At the moment of performing the assessment of Xforms 2.0 it is not included in any national catalogue of recommended specifications of MS with a National Interoperability Framework aligned with at least 4 out of 5 sections of the European Interoperability Framework (EIF) according to the National Interoperability Framework Observatory (NIFO) factsheets.

***The specification partially supports the principles setting context for EU actions on interoperability:***

- **Openness**

Xforms is an open specification publicly available for study or use. In W3C, all the stakeholders have the opportunity to contribute to the development of Xforms and the decision making process includes W3C members review. It has a significant market acceptance that demonstrates that it is mature enough for the development of products and services, including for the creation of innovative solutions.

Xforms specification is available for free for everyone to study.

- **Transparency**

The purpose of the specification is not related to the visibility or the comprehensibility of administrative rules, data, services, and the decision-making process. Also, the purpose of the specification is not related to the availability of interfaces with internal information systems.

---

<sup>3</sup> [https://ec.europa.eu/isa2/eif\\_en](https://ec.europa.eu/isa2/eif_en)

- **Reusability**  
Xforms is an open specification that is available for free and published in collaborative platforms for the reuse of solutions (e.g. Joinup). Additionally, it is a sector agnostic specification.
- **Technological neutrality and data portability**  
Xforms 2.0 can be used independently from any other technical specifications or operating system. Also, Xforms 2.0 is an XML markup for a new generation of forms and other applications on the Web. An XForms-based application gathers and processes data using an architecture that separates presentation, purpose and content.

***The specification does not support the principles related to generic user needs and expectations:***

- **User-centricity**  
The purpose of Xforms 2.0 is not related to the implementation of the once-only principle.
- **Inclusion and accessibility**  
The purpose of Xforms 2.0 is not related to e-accessibility.
- **Security and privacy**  
The specification is aimed to participate in the evaluation of access policies, participating in authentication processes that can ease the secure and trustworthy exchange of data. For security reasons, the XForms Processor must not dereference the URI bound to this form control without explicit user permission.
- **Multilingualism**  
The purpose of Xforms 2.0 is not related to the delivery of multilingual public services.

***The specification partially supports the foundation principles for cooperation among public administrations:***

- **Administrative Simplification**  
Using Xforms 2.0 contributes to the increment of digital public services between administrations and stakeholders and among administrations.
- **Preservation of information**  
The purpose of Xforms 2.0 is not related to the long-term preservation of electronic records and other kinds of information.
- **Assessment of effectiveness and efficiency**  
After carrying out information retrieval, no document or study has been found assessing the Xforms in terms of efficiency or effectiveness.

## 2.2. Interoperability Layers

The interoperability model which is applicable to all digital public services includes:

- Four layers of interoperability: legal, organisational, semantic and technical;
- A cross-cutting component of the four layers, 'integrated public service governance';
- A background layer, 'interoperability governance'.

***The Specification supports the implementation of digital public services complying with the EIF interoperability model:***

- **Interoperability governance**  
1 Member States is recommending Xforms in their ICT National Catalogues. Additionally, Xforms is already associated to European Interoperability Reference Architecture (EIRA) ABBs in the European Library of Specifications (ELIS) at the time of elaborating this assessment.  
After searching in the different official European websites, there is no evidence of any cross-border project that use Xforms nor explicit agreements involving the usage of the specification.
- **Integrated public service governance & Legal Interoperability**  
After carrying out an exhaustive research, no evidence has been found of an established agreement between organisations involved in European public services provision.
- **Organisational interoperability**  
After checking the assessments performed by CAMSS and the list of specifications identified by the MSP Multi-stakeholder-platform, no assessment verifying the compliance of the specification with the European standardisation regulation has been found.
- **Semantic Interoperability**  
The Xforms 2.0 specification includes data structures and models that can be considered as reusable models for establishing data policies. However, the purpose of the specification is not related with the publication of data as Linked Open Data.
- **Technical interoperability**  
This technical interoperability layer is covered by the core interoperability principle "Openness".

### 3. ASSESSMENT RESULTS

This section presents an overview of the results of the CAMSS assessments for **Xforms**. The CAMSS “Strength” indicator measures the reliability of the assessment by calculating the number of answered (applicable) criteria. On the other hand, the number of favourable answers and the number of unfavourable ones are used to calculate the “Automated Score” per category and an “Overall Score”.

Category	Automated Score	Assessment Strength	# Favourable	# Unfavourable	# Not Applicable
Principle setting the context for EU actions on interoperability	0%	100%	0	1	0
Core interoperability principles	94%	84%	15	1	3
Principles related to generic user needs and expectations	100%	25%	1	0	3
Foundation principles for cooperation among public administrations	100%	67%	2	0	1
Interoperability layers*	56%	82%	10	8	4
Overall Score	69%	74%	20	9	10

\*The technical interoperability layer is covered by the criteria corresponding to the core interoperability principle "Openness".

With a 74% of assessment strength, this assessment can be considered representative of the specification compliance with the EIF principles and recommendations.

The Overall Automated Score of 69% demonstrates that the specification supports the European Interoperability Framework in the domains where it applies.

#### INTEROPERABILITY PRINCIPLES

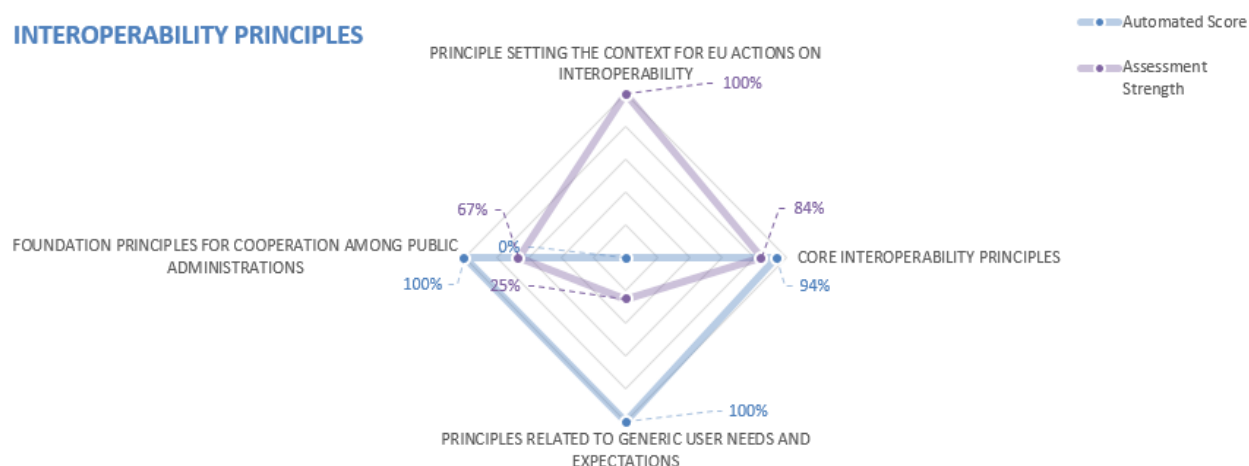


Figure 1. Interoperability principles Results

## INTEROPERABILITY LAYERS

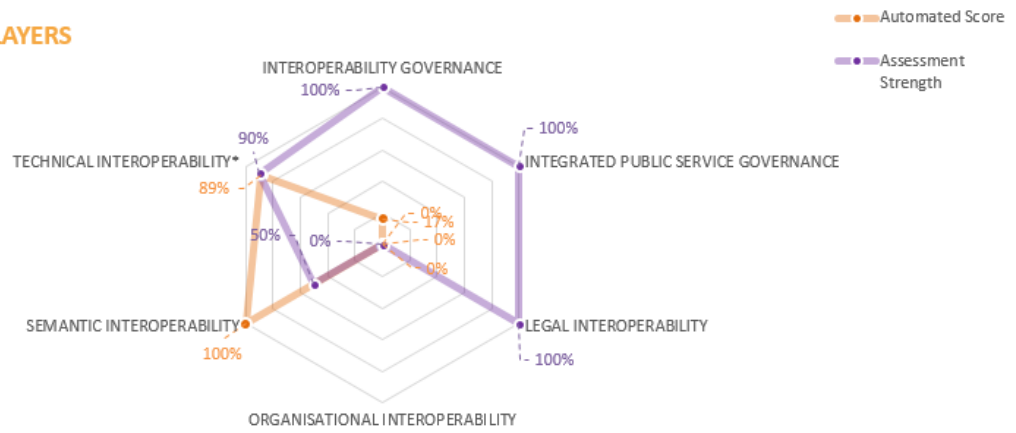


Figure 2. Interoperability layers Results