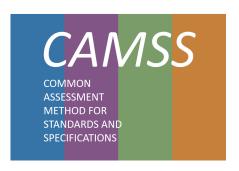
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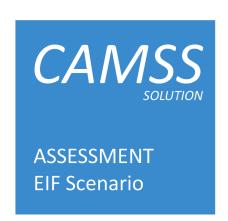
Date: 18/03/2022 13:09:53



CAMSS Assessment EIF Scenario v5.0.0

Fields marked with * are mandatory.

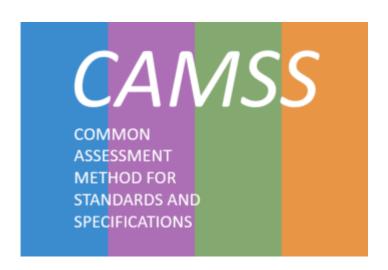
CAMSS Assessment EIF Scenario v5.0.0



Release Date: 31/01/2022

Scenario Version: 5.0.0

INTRODUCTION



EIF Scenario

The European Interoperability Framework (EIF) provides guidance to public administrations on how to improve governance of their interoperability activities, establish cross-organisational relationships, streamline processes supporting end-to-end digital services, and ensure that existing and new legislation do not compromise interoperability efforts.

This CAMSS Scenario allows to assess the compliance of <u>interoperability specifications</u> with the EIF. The objective of the obtained assessment is to determine the suitability of the assessed interoperability specification for the delivery of interoperable European public services.

Background

<u>CAMSS</u> is the European guide for assessing and selecting standards and specifications for an eGovernment project, a reference when building an architecture, and an enabler for justifying the choice of standards and specifications in terms of interoperability needs and requirements. It is fully aligned with the European Standardisation Regulation 1025/2012.

The main objective of CAMSS is achieving interoperability and avoiding vendor lock-in by establishing a neutral and unbiased method for the assessment of technical specifications and standards in the field of ICT. This method will be compliant with Regulation 1025/2012 on European Standardisation.

While ICT solutions have specific characteristics at the political, legal, and organisational levels; semantic and technical interoperability are based mostly on technical specifications or standards. Within the context of the elaboration of their National Interoperability Frameworks, Member States organise the assessment of technical specifications or standards, in order to establish their national recommendations. Deciding on the recommended technical specifications or standards often calls for a resource-intensive and time-consuming assessment. In order to tackle this, the Digital Europe Programme (DEP) defines an action focused on the development of a common assessment method for standards and specifications (CAMSS).

The purpose of CAMSS is:

• to ensure that assessments of technical ICT specifications or standards and interoperability profiles are performed according to high and consistent standards;

- to ensure that assessments will contribute significantly to the confidence in the interoperability of systems implementing these specifications and profiles;
- to enable the reuse, in whole or in part, of such assessments;
- to continuously improve the efficiency and effectiveness of the assessment process for ICT technical specifications, standards, and interoperability profiles.

The expected benefits of the CAMSS are:

- Ensuring greater transparency throughout the selection of standards in the context of ICT strategies, architectures, and interoperability frameworks. This will be achieved through the establishment of a commonly agreed assessment method, assessment process, and a list of assessment attributes.
- Reducing resource and time requirements and avoiding duplication of efforts. (Partial) sharing of finalised assessments of standards and specifications.
- Allowing easier and faster assessments, and reusing the ones already performed through the creation and maintenance of a library of standards.

Your compliance level of the specification assessed depends on the scores you achieved in each section of the survey. Please see below the survey score conversion table below for guidance.

	Compliance Level					
Section	Ad-hoc	Opportunistic	Essential	Sustainable	Seamless	
Principles setting the context for EU Actions on Interoperability	20	40	50	80	90	
EIF Core Interoperability Principles	0 to 440	441 to 880	881 to 1320	1321 to 1760	1761 to 2200	
EIF Principles Related to generic user needs and expectations	0 to 100	101 to 200	201 to 300	301 to 400	401 to 500	
EIF Foundation principles for cooperation among public	0 to 100	101 to 200	201 to 300	301 to 400	401 to 500	

administrations

EIF

Interoperability
0 to 220
221 to 440
441 to 660
661 to 880
881 to 1100

The following table shows the 'compliance levels' that a specification can reach depending on the assessment score.

Compliance Level	Description	
Ad-hoc	Poor level of conformance with the EIF - The specification does not cover the requirements and recommendations set out by the EIF in this area.	
Opportunistic	Fair level of conformance with the EIF - The specification barely covers the requirements and recommendations set out by the European Interoperability Framework in this area.	
Essential	Essential level of conformance with the EIF - The specification covers the basic aspects set out in the requirement and recommendations from the European Interoperability Framework.	
Sustainable	Good level of conformance with the EIF scenario - The specification covers all the requirements and recommendations set out by the European Interoperability Framework in this area.	
Seamless	Leading practice of conformance level with the EIF - The specification fully covers the requirements and recommendations set out by the European Interoperability Framework in this area.	

Contact: For any general or technical questions, please send an email to DIGIT-CAMSS@ec.europa.eu. Follow all activities related to the CAMSS on our CAMSS community page.

USER CONSENT

Disclaimer:

By no means will the Interoperability Specification assessment imply any endorsement of the EC to the assessed specification. Likewise, The use of CAMSS Tool implies that the user accepts that the EC is not liable on the assessment nor on any direct or indirect consequence/decision of such assessment.

CAMSS Tools are based on EU Survey, by accepting the CAMSS Privacy Statement the user also accepts EU Survey Privacy Statement and the Terms of use.

- * Please, fill in the mandatory* information to start the assessment
 - ▼I have read and agreed to the following CAMSS Privacy Statement: here
 - I agree to be contacted for evaluation purposes, namely to share my feedback on specific DEP solutions and actions and on the DEP programme and the European Interoperability Framework in general.

This assessment tool is licensed under the European Union Public License (EUPL)

Information on the information provider

Your La	ast name
CA	AMSS Team
Your Fi	irst Name
Your P	osition / Role
Your O	organisation
Ει	uropean Commission DG DIGIT
Your C	ontact phone number
your da	you like to be contacted for evaluation purposes in the context of your assessment? To see how ata is handled, please check again the Privacy statement here you would like to be contacted, please select "yes" and provide your email. Yes No
Contac	et Email
DIC	GIT-CAMSS@eu.europa.eu
<!--</td--><td>did you learn about CAMSS? DEP Programme (DEP website, DEP social media) Joinup (e.g., CAMSS Collection, Joinup social media) European Commission Public Administrations at national, regional or local level Standards Developing Organizations (SDOs) Other</td>	did you learn about CAMSS? DEP Programme (DEP website, DEP social media) Joinup (e.g., CAMSS Collection, Joinup social media) European Commission Public Administrations at national, regional or local level Standards Developing Organizations (SDOs) Other
If you a	answered "Other" in the previous question, please specify how:

Information on the specification

Application ProfileFamily of Specification
* Title of the specification
OASIS Topology and Orchestration Specification for Cloud Applications (TOSCA)
* Version of the specification
1.3
* Description of the specification
TOSCA is a language for describing a cloud-based web service topology, its components, relationships and the processes that manage them.
* URL from where the specification is distributed
https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html
* Name and website of the standard developing/setting organisation (SDO/SSO) of the specification W3C (https://www.w3.org) OASIS (https://www.oasis-open.org/) IEEE (https://standards.ieee.org/) ETSI (https://www.etsi.org/) GS1 (https://www.gs1.fr/) openEHR (https://www.openehr.org/) IETF (https://www.ietf.org/) Other (SDO/SSO) Contact information/contact person of the SDO a) for the organisation
b) for the specification submitted

Information on the assessment of the specification

* A1 - To what extent has the specification been included in a national catalogue from a Member State whose National Interoperability Framework has a high performance on interoperability according to National Interoperability Framework Observatory factsheets?

EIF Recommendation 1: Ensure that national interoperability frameworks and interoperability strategies are aligned with the EIF and, if needed, tailor and extend them to address the national context and needs.

This criterion assesses if the specifications have been included within the National Catalogues of Specifications of the Member States that are highly aligned with the higher level of performance in terms of interoperability.

The Digital Public Administration Factsheets uses three categories to evaluate the level of National Interoperability frameworks in accordance with the EIF. The three categories are 1. CONCEPTUAL MODEL FOR INTEGRATED PUBLIC SERVICES PROVISION; 2 INTEROPERABILITY LAYERS, and 3. INTEROPERABILITY PRINCIPLES. National Interoperability Frameworks reports can be found here: https://joinup.ec.europa.eu/collection/nifo-national-interoperability-framework-observatory/digital-public-administration-factsheets-2020

- Not Answered
- Not Applicable
- The specification has not been included within the catalogue of any Member State.
- The specification has been included within the catalogue of a Member State with a lower performance than stated in the Digital Public Administration Factsheets from the NIFO.
- The specification has been included within the catalogue of a Member State with a middel-lower performance than stated in the Digital Public Administration Factsheets from the NIFO.
- The specification has been included within the catalogue of a Member State with a middle-upper performance than stated in the Digital Public Administration Factsheets from the NIFO.
- The specification has been included within the catalogue of a Member State with a higher performance than stated in the Digital Public Administration Factsheets from the NIFO.

* Justification

There is no Member State that includes TOSCA in their national catalogue with The National Interoperability Framework (NIF) in alignment with the three categories: 1. Conceptual model for integrated public services provision, 2. interoperability layers, and 3. interoperability principles.

CAMSS List of Standards:

https://joinup.ec.europa.eu/collection/common-assessment-method-standards-and-specifications-camss/camss-list-standards

EIF CORE INTEROPERABILITY PRINCIPLES

In this category, elements related to the core interoperability principles (UP) are encompassed, which are: openness (UP 2), transparency (UP3), reusability (UP4), technological neutrality, and data portability (UP5).

Openness

* A2 - Does the specification facilitate the publication of open data?

EIF Recommendation 2: Publish the data you own as open data unless certain restrictions apply

Re	elates to the ability of the specification to publish data as open data or not.
	Not Answered
	Not Applicable
	O NO
	O YES
Jus	stification
	The purpose of TOSCA is not related to the publication of open data. Therefore, this criterion is not applicable to this specification.
	TOSCA reference, section 1.2:
	https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html#_Toc26969412
	Tim Berners-Lee 5-star schema for Open Data: https://5stardata.info/en/
А3	- To what extent do stakeholders have the opportunity to contribute to the development of the
spe	ecification?
EI	F Recommendation 3: Ensure a level playing field for open-source software and demonstrate active and fair
CO	nsideration of using open source software, taking into account the total cost of ownership of the solution.
	elates to in which measure the different stakeholders that a specification can benefit have the opportunity to rticipate in the working groups focused on the development of certain specifications. Not Answered Not Applicable
	There is no information on the working group of the specification.
	The working group is open to participation by any stakeholder but requires registration, fees, and membership approval.
	The working group is open to participation by any stakeholder but requires fees and membership approval.
	The working group is open to participation following a registration process.
	The working group is open to all without specific fees, registration, or other conditions.
Jus	stification
	As defined on the OASIS Topology and Orchestration Specification for Cloud Applications (TOSCA) Technical Committee (TC), only TC members are involved in the development of TOSCA. External contribution to this committee is possible through open channels (see Mail Lists and Comments reference).
	OASIS TOSCA TC reference:
	https://www.oasis-open.org/committees/tc_home.php?wg_abbrev=regrep
	Mail Lists and Comments reference:
	https://www.oasis-open.org/committees/tc_home.php?wg_abbrev=tosca#feedback

* A4 - To what extent is a public review part of the release lifecycle?

EIF Recommendation 3: Ensure a level playing field for open-source software and demonstrate active and fair consideration of using open source software, taking into account the total cost of ownership of the solution.

A public review consists of the public availability of the specification's draft for stakeholders to provide inputs for the improvement and fix of possible bugs.

- Not Answered
- Not Applicable
- Specification releases do not foresee public reviews.
- Public review is applied to certain releases depending on the involved changes.
- All major releases foresee a public review.
- All major and minor releases foresee a public review but, during which, collected feedback is not publicly visible.
- All major and minor releases foresee a public review during which collected feedback is publicly visible.

* Justification

TOSCA does not foresee any public review. As defined on the OASIS Topology and Orchestration Specification for Cloud Applications (TOSCA) Technical Committee (TC), only this TC is involved in the release lifecycle of the specification. External contribution to this committee is possible through the Comment List.

OASIS TOSCA TC reference:

https://www.oasis-open.org/committees/tc home.php?wg abbrev=regrep

Mail Lists and Comments reference:

https://www.oasis-open.org/committees/tc_home.php?wg_abbrev=tosca#feedback

* A5 - Is the specification available with any restrictions related to Fair, Reasonable, and Non-Discriminatory ((F)RAND)?

EIF Recommendation 3: Ensure a level playing field for open-source software and demonstrate active and fair consideration of using open source software, taking into account the total cost of ownership of the solution.

The FRAND basis relates to fair, reasonable, and non-discriminatory IPR disclosures.

- Not Answered
- Not Applicable
- ON O
- YES

* Justification

The OASIS Technical Committee, in charge of the development of TOSCA, operates under RF (royalty-free) on RAND (reasonable and non-discriminatory) Mode of the OASIS IPR Policy. Therefore, the specification is licensed on a (F)RAND basis.

TOSCA reference, Notices section:

http://docs.oasis-open.org/tosca/TOSCA/v1.0/os/TOSCA-v1.0-os.html

OASIS Intellectual Property Rights Policy, section 10.2.2: https://www.oasis-open.org/policies-guidelines/ipr/

* A6 - Is the specification licensed on a royalty-free basis?

EIF Recommendation 3: Ensure a level playing field for open-source software and demonstrate active and fair consideration of using open source software, taking into account the total cost of ownership of the solution.

Additionally to the EIF's recommendation that refers to open-source software it applies to a specification in itself at any interoperability level (legal, organisational, semantic, or technical)

- Not Answered
- Not Applicable
- ON O
- YES

* Justification

The OASIS Technical Committee, in charge of the development of TOSCA, operates under RF (royalty-free) on RAND (reasonable and non-discriminatory) Mode of the OASIS IPR Policy. Therefore, the specification is licensed on a Royalty-free basis.

TOSCA reference, Notices section:

http://docs.oasis-open.org/tosca/TOSCA/v1.0/os/TOSCA-v1.0-os.html

OASIS Intellectual Property Rights Policy, section 10.2.2:

https://www.oasis-open.org/policies-guidelines/ipr/

* A7 - To what extent is the specification sufficiently mature for its use in the development of digital solutions/services?

EIF Recommendation 4: Give preference to open specifications, taking due account of the coverage of functional needs, maturity and market support, and innovation.

Maturity related to the stability of the specification, meaning that it has been evolved enough and mechanisms for its development have been put in place (Change Management processes, monitoring, etc.)

- Not Answered
- Not Applicable
- The specification has no published releases and no publicly accessible information on its development state.
- The specification is under development without published releases.
- The specification is under development with published preview releases.
- The specification has published major releases but without public documentation on its supporting processes (e.g. change management and release management).
- The specification, in addition to having major releases available, has published documentation on its supporting processes (e.g. change management and release management).

* Justification

TOSCA v1.0 was released in 2013, including the XML schema that users are meant to use when deploying their IT infrastructure (see TOSCA wiki reference, Quick Links and Older Technical Work sections). Two

minor releases, TOSCA v1.1 and TOSCA v1.2 were published in 2017 (see OASIS TOSCA TC reference, TOSCA in 2018 and beyond section). In 2020, TOSCA v1.3 prescribed TOSCA v1.2, and changed its name to TOSCA Simple Profile in YAML v1.3. The specification has a draft version of TOSCA v2.0 which aims at easing the portability of cloud applications and services. Additionally, the specification provides OASIS TOSCA TC-independent technical reports and documents/platforms proving its usefulness in the industry (see TOSCA wiki reference, Quick Links section), showing its maturity in the market.

TOSCA wiki reference, Quick Links section:

https://wiki.oasis-open.org/tosca/FrontPage

OASIS TOSCA TC reference, Older Technical Work section:

https://www.oasis-open.org/committees/tc home.php?wg abbrev=tosca#technical

TOSCA Simple Profile in YAML reference, section 1.2:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html#_Toc26969412

TOSCA Draft Version 2.0 reference, section 1.2:

https://docs.oasis-open.org/tosca/TOSCA/v2.0/csd03/TOSCA-v2.0-csd03.html# Toc56506175

OASIS TOSCA TC reference, TOSCA in 2018 and beyond section:

https://www.oasis-open.org/committees/tc_home.php?wg_abbrev=tosca#2018

* A8 - To what extent has the specification sufficient market acceptance for its use in the development of digital solutions/services?

EIF Recommendation 4: Give preference to open specifications, taking due account of the coverage of functional needs, maturity and market support, and innovation.

Relates to how the specification is supported by the market, taking as a reference whether or not the specifications are widely used or implemented. There is an exception, and it is when the specification is being used to create innovative solutions.

- Not Answered
- Not Applicable The specification does not have market acceptance because it is directly used to create innovative solutions.
- There is no information about the specification's market uptake.
- The specification has known implementations but not enough to indicate market acceptance.
- The specification has widespread use indicating market acceptance.
- The specification has widespread use and relevant independent reports proving its market acceptance.
- The specification has widespread use, indicating market acceptance.

* Justification

TOSCA is a language for describing a cloud-based web service topology, its components, relationships and the processes that manage them. Although the specification competes against other cloud-orchestration proprietary formats (such as the AWS CloudFormation Templates), TOSCA v1.3 is contributing to the creation of innovative solutions based on YAML service templates, which has been positively adopted by the market. It is the case of xOpera (within a European project) and the IM infrastructure manager, both open source cloud orcherstrators.

TOSCA Simple Profile in YAML reference, section 1.2:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html#_Toc26969412

AWS CloudFormation Templates reference:

https://aws.amazon.com/cloudformation/resources/templates/?nc1=h_ls

xOpera-Github reference:

https://github.com/xlab-si/xopera-opera

IM Infrastructure Manager reference:

https://github.com/grycap/im

* A9 - To what extent has the specification support from at least one community?

EIF Recommendation 3: Ensure a level playing field for open-source software and demonstrate active and fair consideration of using open source software, taking into account the total cost of ownership of the solution.

Related to whether or not communities are surrounding the specification at any level legal, organisational, semantic, or technical contributions to its enhancement and development.

- Not Answered
- Not Applicable
- There is no community linked to the specification.
- Specification support is available but as part of a closed community requiring registration and possibly fees.
- There is no specific community to support the specification but there are public channels for the exchange of help and knowledge among its users.
- There is a community providing public support linked to the specification but in a best-effort manner.
- There is a community tasked to provide public support linked to the specification and manage its maintenance.

* Justification

TOSCA is maintained and developed by OASIS, which is an international community developing open standards; specifically, by the OASIS TOSCA Technical Committee (OASIS TOSCA TC). The specification maintenance is transparent, and even if its development and the approval process is restricted to the specification TC, anyone can contribute by submitting feedback to the mailing list. All the contributions are publicly available.

Developer community OASIS:

https://www.oasis-open.org/org/

OASIS TOSCA TC reference:

https://www.oasis-open.org/committees/tc_home.php?wg_abbrev=regrep

Transparency

*

A10 - To what extent does the specification enable the visibility of administrative procedures, rules data, and services?

EIF Recommendation 5: Ensure internal	visibility and provide external interfaces for European public services.
Not Answered	
Not Applicable	

- The specification hinders visibility.
 The specification neither promotes nor hinders visibility.
- The specification can contribute and promote the visibility of administrations, but it is not its main purpose.
- The specification can enable the visibility of administrations if combined with other specifications.
- The specification actively promotes and supports visibility.

* Justification

TOSCA offers the possibility to manage and orchestrate resources for the provisioning of cloud applications and services. In this sense, when combined with other specifications, the specification enables visibility of data and services.

TOSCA reference, section 1.2:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html#_Toc26969412

* A11 - To what extent does the specification scope comprehensibly administrative procedures, rules data, and services?

EIF Recommendation 5: Ensure internal visibility and provide external interfaces for European public services.

- Not Answered
- Not Applicable
- The specification hinders comprehensibility.
- The specification neither promotes nor hinders comprehensibility.
- The specification can contribute and promote the comprehensibility of administrations, but it is not its main purpose.
- The specification can scope the comprehensibility of administrations if combined with other specifications.
- The specification actively promotes and supports comprehensibility.

* Justification

TOSCA offers the possibility to manage and orchestrate resources for the provisioning of cloud applications and services. In this sense, when combined with other specifications, the specification can scope comprehensibility of data and services.

TOSCA reference, section 1.2:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html# Toc26969412

* A12 - To what extent does the specification enable the exposure of interfaces to access the public administration's services?

EIF Recommendation 5: Ensure internal visibility and provide external interfaces for European public services.

Relates to ensuring availability of interfaces with internal information systems. As the EIF defines: *Public administrations operate a large number of what are often heterogeneous and disparate information systems in support of their internal processes. Interoperability depends on ensuring the availability of interfaces to these systems and the data they handle. In turn, interoperability facilitates the reuse of systems and data and enables these to be integrated into larger systems.*

- Not Answered
- Not Applicable
- The specification prevents the exposure of such interfaces.
- The specification neither promotes nor hinders the exposure of such interfaces.
- The specification can contribute to the exposure of interfaces, but it is not its main purpose.
- The specification can enable the exposure of interfaces if combined with other specifications.
- The specification enables exposure of such interfaces.

* Justification

The TOSCA cloud-orchestration service provides both the structure of a cloud-based service and orchestration models describing the way the service is managed throughout its lifetime. Although TOSCA offers an end-to-end approach, the specification may facilitate the exposure of interfaces within public administration's services. It is the case of the past CELAR project, which was meant to provide automatic, multi-grained resource allocation for cloud applications and boost administrative performance (see CELAR project reference, Cloud Information System report).

TOSCA reference, Glossary section:

 $https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html \#_Toc26969419$

CELAR project reference, Cloud Information System report:

https://cordis.europa.eu/project/id/317790/reporting

* A13 - To what extent does the specification ensure the protection of personal data managed by Public Administrations?

<u>EIF Recommendation 5:</u> Ensure internal visibility and provide external interfaces for European public services.

Securing the right to the protection of personal data, by respecting the applicable legal framework for the large volumes of personal data of citizens, held and managed by Public administrations.

- Not Answered
- Not Applicable
- The specification hinders the protection of personal data.
- The specification does not address the protection of personal data but neither prevents it.
- The specification includes certain data protection considerations but without being exhaustive.
- The specification explicitly addresses data protection but without referring to relevant regulations.
- The specification explicitly addresses data protection and its alignment to relevant regulations.

* Justification

Data protection encompasses data confidentiality, integrity and access control. TOSCA does not impose the use of any specific mechanism or technology for security considerations; security aspects should be obtainable by the user infrastructure.

TOSCA reference, TOSCA normative type definitions section: https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-

Reusability

os.html# Toc26969462

* A14 - To what extent is the specification usable beyond the business-specific domain, allowing its usage across business domains?

EIF Recommendation 6: Reuse and share solutions, and cooperate in the development of joint solutions when implementing European public services.

Relates to the use of the specification beyond a specific business domain. E.g. a specification developed under the eHealth domain that can be used in other domains or not.

- Not Answered
- Not Applicable
- The specification is tied to a specific domain and is restricted from being used in other domains.
- The specification is associated with a specific domain but its use in other domains is difficult.
- The specification is associated with a specific domain but could be partially used in other domains.
- The specification is associated with a specific domain but could be used 'as-is' to other domains.
- The specification is domain-agnostic, designed to be used in any domain.

* Justification

Although TOSCA is widely known in the field of cloud computing, the specification offers versatility, as it runs in a container (or software unit) and specifies orchestration process models that enable the management of services, as well as their use in various domains, independently of the application context.

TOSCA reference:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html

* A15 - To what extent is the specification usable beyond the business-specific domain, allowing its implementation across business domains?

EIF Recommendation 6: Reuse and share solutions, and cooperate in the development of joint solutions when implementing European public services.

Relates to the use of the specification beyond a specific business domain. E.g. a specification developed under the eHealth domain that can be used in other domains or not.

- Not Answered
- Not Applicable
- The specification is tied to a specific domain and is restricted from being implemented in other domains.
- The specification is associated with a specific domain but its implementation in other domains is difficult.
- The specification is associated with a specific domain but could be partially implemented in other domains.
- The specification is associated with a specific domain but could be implemented 'as-is' to other domains.
- The specification is domain-agnostic, designed to be implemented in any domain.

* Justification

TOSCA is widely known in the field of cloud computing, since it runs on a container (or software unit) and specifies orchestration process models that enable the management of services independently of the application context. In this sense, the specification can be used beyond the business-specific domain and allows its implementation across any business domain.

TOSCA reference:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html

Technological Neutrality and Data Portability

* A16 - Is the specification technology agnostic?

EIF Recommendation 8: Do not impose any technological solutions on citizens, businesses, and other administrations that are technology-specific or disproportionate to their real needs

Relates to the dependency of the specification to be implemented without relying on specific technologies or platforms.

- Not Answered
- Not Applicable
- ON
- YES

* Justification

At the time being TOSCA provides a default XML or YAML-based file dedicated to its implementation (that is, the Cloud Service Archive -CSAR, or TOSCA metadata file, and the TOSCA Simple Profile in YAML Objective section). In this sense, the specification is not technology-agnostic.

TOSCA reference, Cloud Service Archive (CSAR) reference:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html#_Toc26969474

TOSCA reference, TOSCA Simple Profile in YAML Objective section:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html#_Toc26969412

* A17 - Is the specification platform agnostic?

EIF Recommendation 8: Do not impose any technological solutions on citizens, businesses, and other administrations that are technology-specific or disproportionate to their real needs

Relates to the dependency of the specification to be implemented without relying on specific technologies or platforms.

- Not Answered
- Not Applicable
- ON O

YES

* Justification

TOSCA is to be used for a variety of cloud services and is not tied to any specific cloud paradigm. Therefore, the specification is platform-agnostic.

TOSCA reference:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html

* A18 - To what extent does the specification allow for partial implementations?

EIF Recommendation 8: Do not impose any technological solutions on citizens, businesses, and other administrations that are technology-specific or disproportionate to their real needs.

Partial implementations refer to the application of specifications, not in their whole, but part of the requirements or features it defines in the text.

It can also be understood as the implementation of different profiles, which is also related to a certain set of requirements depending on the context of implementation.

- Not Answered
- Not Applicable
- The specification is only meant to be used as a whole.
- The specification could be partially implemented but does not make specific provisions towards this.
- The specification could be partially implemented but includes only guidelines towards this rather than sets of requirements.
- The specification explicitly foresees sets of requirements that can be implemented incrementally.
- The specification explicitly foresees sets of requirements that can be implemented incrementally or separately.

* Justification

TOSCA does not allow for partial implementation. In fact, the Cloud Service ARchive (CSAR) is an archive format that is meant to guarantee the availability of all specification artefacts as well as the successful execution of services. In other words, in order to support the execution and lifecycle management of a cloud application in a given environment, all corresponding artefacts have to be available in that environment, preventing partial implementation.

TOSCA reference, Cloud Service Archive (CSAR) reference:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html# Toc26969474

* A19 - Does the specification allow customisation?

EIF Recommendation 8: Do not impose any technological solutions on citizens, businesses, and other administrations that are technology-specific or disproportionate to their real needs.

A clear example of customizations is Core Vocabularies, which define a set of general requirements that could fit in any context and allow for the customization to fit specific business requirements in the implementation.

Not Answered

- Not ApplicableNO
- YES

* Justification

TOSCA allows customisation but authoring processes might be difficult to execute; hence the creation of related specifications based on other host languages (see TOSCA reference, TOSCA Simple Profile in YAML Objective section). Moreover, there is an attempt within the TOSCA TC to create a core TOSCA specification compatible with a variety of deployment use cases that would minimise the specification dependence on hosting technologies (see TOSCA Draft Version 2.0 reference, section 1.2).

TOSCA reference, Cloud Service Archive (CSAR) reference:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html#_Toc26969474

TOSCA reference, TOSCA Simple Profile in YAML Objective section:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html#_Toc26969412

TOSCA Draft Version 2.0 reference, section 1.2:

https://docs.oasis-open.org/tosca/TOSCA/v2.0/csd03/TOSCA-v2.0-csd03.html#_Toc56506175

* A20 - Does the specification allow extension?

EIF Recommendation 8: Do not impose any technological solutions on citizens, businesses, and other administrations that are technology-specific or disproportionate to their real needs.

A clear example of customizations is Core Vocabularies, which define a set of general requirements that could fit in any context and allow for the customization to fit specific business requirements in the implementation.

- Not Answered
- Not Applicable
- ON O
- YES

* Justification

TOSCA allows extension as long as each implementation fully supports all required functionality of the specification exactly as specified. Cloud services execution and their lifecycle management are dependent on the availability of all the TOSCA corresponding artefacts (deployment and implementation artefacts) in all cloud environment use cases.

TOSCA reference, Artifact types section:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html# Toc26969466

TOSCA reference, Conformance section:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html#_Toc26969508

* A21 - To what extent does the specification enable data portability between systems/applications supporting the implementation of European public services?

EIF Recommendation 9: Ensure data portability, namely that data is easily transferable between systems and applications supporting the implementation and evolution of European public services without unjustified restrictions, if legally possible.

- Not Answered
- Not Applicable
- The specification prevents or does not support data portability.
- The specification neither addresses data portability nor prevents it.
- The specification addresses data portability but without specific provisions to enable it.
- The specification introduces certain aspects that can contribute to enabling data portability.
- The specification explicitly addresses and enables data portability.

* Justification

TOSCA does not impose the use of any specific mechanism or technology for enabling data portability; data portability aspects should be obtainable by the user infrastructure.

TOSCA reference:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html

* A22 - To what extent does the specification enable data portability between systems/applications supporting the evolution of European public services?

EIF Recommendation 9: Ensure data portability, namely that data is easily transferable between systems and applications supporting the implementation and evolution of European public services without unjustified restrictions, if legally possible.

- Not Answered
- Not Applicable
- The specification prevents or does not support data portability.
- The specification neither addresses data portability nor prevents it.
- The specification addresses data portability but without specific provisions to enable it.
- The specification introduces certain aspects that can contribute to enabling data portability.
- The specification explicitly addresses and enables data portability.

* Justification

TOSCA does not impose the use of any specific mechanism or technology for enabling data portability; data portability aspects should be obtainable by the user infrastructure.

TOSCA reference:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html

EIF PRINCIPLES RELATED TO GENERIC USER NEEDS AND EXPECTATIONS

This category includes all underlying principles from the EIF which are related to user needs. Principles included here are user-centricity (UP6), inclusion and accessibility (UP7), security and privacy (UP8), and multilingualism (UP9).

User-Centricity

* A23 - To what extent does the specification allow relevant information to be reused when needed?

EIF Recommendation 13: As far as possible under the legislation in force, ask users of European public services once-only and relevant-only information.

The Once-Only Principle is related to making the operations or transactions between administrations and stakeholders more efficient. It implies avoiding the provision of certain data or information twice or more when this information is already available for public administrations.

Additional and relevant information can be found here: https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL

/Once+Only+Principle

- Not Answered
- Not Applicable
- Information needs to be provided whenever this is needed.
- There is limited reuse of provided information.
- Provided information is reused, but this is not consistently done.
- Provided information is reused, but not in all scenarios.
- Information is provided once-only and reused as needed.

* Justification

The purpose of TOSCA is not related to the implementation of the once-only principle. Therefore, this criterion does not apply to this specification.

TOSCA reference:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html

Inclusion and Accessibility

* A24 - To what extent does the specification enable the e-accessibility?

EIF Recommendation 14: Ensure that all European public services are accessible to all citizens, including persons with disabilities, the elderly, and other disadvantaged groups. For digital public services, public administrations should comply with e-accessibility specifications that are widely recognised at the European or international level.

Examples of specifications addressing e-accessibility are, for instance, WAI-ARIA (https://www.w3.org/WAI /standards-guidelines/aria/) included within Web Content Accessibility Guidelines (WCAG) Overview (https://www.w3.org/WAI org/WAI/standards-guidelines/wcag/).

- Not Answered
- Not Applicable

- The specification prevents or does not support e-accessibility.
 The specification neither addresses e-accessibility nor prevents it.
- The specification can contribute and promote e-accessibility, but it is not its main purpose.
- The specification can enable e-accessibility if combined with other specifications.
- The specification explicitly addresses and enables e-accessibility.

* Justification

The purpose of TOSCA is not related to e-accessibility. Therefore, this criterion is considered not applicable to this specification.

TOSCA reference:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html

Security and Privacy

* A25 - To what extent does the specification enable the secure exchange of data?

EIF Recommendation 15: Define common security and privacy framework and establish processes for public services to ensure secure and trustworthy data exchange between public administrations and in interactions with citizens and businesses.

Relates to the actions that Public Administrations establish concerning sensitive information for the proper delivery of public services. The different actions imply the reception, classification, and exchange of such information.

- Not Answered
- Not Applicable
- The specification prevents or does not support the secure and trustworthy exchange of data.
- The specification introduces certain aspects that can contribute to enabling the secure exchange of data.
- The specification addresses data security and trustworthy data exchange but does not foresee specific provisions to enable them.
- The specification addresses data security and trustworthy data exchange but specific provisions to enable them are limited.
- The specification explicitly addresses and enables the secure and trustworthy exchange of data.

* Justification

The purpose of TOSCA is not related to the secure exchange of data. Therefore, this criterion is considered not applicable to this specification.

TOSCA reference:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html

* A26 - To what extent does the specification enable the secure processing of data?

EIF Recommendation 15: Define common security and privacy framework and establish processes for public services to ensure secure and trustworthy data exchange between public administrations and in interactions with

citizens and businesses.

Relates to the actions that Public Administrations establish concerning sensitive information for the proper delivery of public services. The different actions imply the reception, classification, and exchange of such information.

- Not Answered
- Not Applicable
- The specification prevents or does not support the secure and trustworthy processing of data.
- The specification introduces certain aspects that can contribute to enabling the secure processing of data.
- The specification addresses data security and trustworthy data processing but does not foresee specific provisions to enable them.
- The specification addresses data security and trustworthy data processing but specific provisions to enable them are limited.
- The specification explicitly addresses and enables the secure and trustworthy processing of data.

* Justification

The purpose of TOSCA is not related to the secure processing of data. Therefore, this criterion is considered not applicable to this specification.

TOSCA reference:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html

Multilingualism

* A27 - To what extent could the specification be used in a multilingual context?

EIF Recommendation 16: Use information systems and technical architectures that cater to multilingualism when establishing a European public service. Decide on the level of multilingualism support based on the needs of the expected users.

- Not Answered
- Not Applicable
- The specification cannot be used in a multilingual context.
- The specification could be used in a multilingual context but has no specific provisions to facilitate this.
- The specification foresees limited support for multilingualism.
- The specification foresees support for multilingualism but this is not complete.
- The specification is designed to fully support multilingualism.

* Justification

The purpose of TOSCA is not related to the delivery of multilingual public services. Therefore, this criterion is not applicable to this specification.

TOSCA reference:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html

EIF FOUNDATION PRINCIPLES FOR COOPERATION AMONG PUBLIC ADMINISTRATIONS

This category includes the criteria aiming to evaluate principles related to collaboration amongst public organisations, business, and citizens. This is related to the underlying principles of administrative simplification (UP10), preservation of information (UP11), and assessment of effectiveness and efficiency (UP12).

Administrative Simplification

EIF Recommendation 17: Simplify processes and use digital channels whenever appropriate for the delivery of European public services, to respond promptly and with high quality to users' requests and reduce the administrative burden on public administrations, businesses and citizens.

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- Not Applicable
- ON
- YES

* Justification

TOSCA may simplify the delivery of ditigal public services, but up to date there is no evidence of any specific application in public administrations at European level. It seems that there is still work to do for increasing TOSCA's capabilities in terms of service deployments (see EUBRA-BIGSEA project reference), and this may include public administrations to the extent that there is no evidence of TOSCA as a leading force in European public services.

TOSCA reference:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html

EUBRA-BIGSEA project reference:

http://www.eubra-bigsea.eu/standards

* A29 - Does the specification enable digital service delivery channels?

<u>EIF Recommendation 17:</u> Simplify processes and use digital channels whenever appropriate for the delivery of European public services, to respond promptly and with high quality to users' requests and reduce the administrative burden on public administrations, businesses and citizens.

-		
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- Not Applicable
- ON O
- YES

* Justification

TOSCA fosters and simplifies digital exchange in network specific domains. It is the case of CELAR and Indigo-DataCloud projects, which aim to provide a contact point for European research centers to discover, access, use and reuse a wide range of resources for advanced data-driven activities.

TOSCA reference:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html

CELAR reference, 'Translational cancer detection pipeline over CELAR Application and Evaluation' document:

https://cordis.europa.eu/project/id/317790/reporting

Indigo-DataCloud reference:

https://www.indigo-datacloud.eu/#history

Preservation of Information

* A30 - To what extent does the specification enable the long-term preservation of data/information /knowledge (electronic records included)?

EIF Recommendation 18: Formulate a long-term preservation policy for information related to European public services and especially for information that is exchanged across borders.

Relates to the capacity of the specification to contribute to the long-term preservation of information.

- Not Answered
- Not Applicable
- The specification prevents or does not support long-term preservation.
- The specification neither addresses the long-term preservation nor prevents it.
- The specification addresses the long-term preservation of electronic resources (information, data, etc) in a limited manner.
- The specification addresses long-term preservation of electronic resources (information, data, etc), but not in a complete manner.
- The specification explicitly addresses and enables long-term preservation.

* Justification

TOSCA does not impose the use of any specific mechanism or technology for the long-term preservation of data/information/knowledge; data preservation aspects should be obtainable by the user infrastructure.

TOSCA reference:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html

Assessment of Effectiveness and Efficiency

* A31 - To what extent are there assessments of the specification's effectiveness?

<u>EIF Recommendation 19:</u> Evaluate the effectiveness and efficiency of different interoperability solutions and technological options considering user needs, proportionality, and balance between costs and benefits.

Related to the degree to which the specification is effective while using it. There are indirect methods to determine that the specification is effective, for instance then a solution that has an effective performance and uses the specification to deliver the expected service.

Effectiveness:	the extent to	which the s	pecifications	reach the	expected	action	according to	its purpose.

- Not Answered
- Not Applicable
- There are no such assessments.
- There are such assessments that indirectly address the specification.
- There are such assessments evaluating digital solutions' effectiveness that involve the specification.
- There are such assessments addressing the specification and its effectiveness together with other specifications.
- There are such assessments directly addressing the specification.

* Justification

There are not specific assessments nor any deployment use case evaluating the specification's effectivenes.

TOSCA reference:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html

* A32 - To what extent are there assessments of the specification's efficiency?

EIF Recommendation 19: Evaluate the effectiveness and efficiency of different interoperability solutions and technological options considering user needs, proportionality, and balance between costs and benefits.

Related to the good use of time and resources not wasted unnecessarily by a specification being used. There are indirect methods to determine that the specification is efficient, for instance, a solution delivering a service with an efficient performance that uses the specification.

Efficiency: times and means needed to achieve the results using the specification.

- Not Answered
- Not Applicable
- There are no such assessments.
- There are such assessments that indirectly address the specification.
- There are assessments evaluating digital solutions' efficiency that involve the specification.
- There are such assessments addressing the specification and its efficiency together with other specifications.
- There are such assessments directly addressing the specification.

* Justification

There are not specific assessments nor any deployment use case evaluating the specification's efficiency.

TOSCA reference:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html

EIF INTEROPERABILITY LAYERS

This category is aligned with the related interoperability models described in the EIF and apply to all the public services. It includes six layers: interoperability governance, integrated public service governance, legal interoperability, organisational interoperability, semantic interoperability, and technical interoperability covered by criteria A2 to A10 under the Openness category.

Interoperability Governance

* A33 - Is the (or could it be) specification mapped to the European Interoperability Architecture (EIRA)?

<u>EIF Recommendation 20:</u> Ensure holistic governance of interoperability activities across administrative levels and sectors.

The EIRA defines the required capabilities for promoting interoperability as a set of Architecture Building Blocks (ABBs). The association of specification to these ABBs means the capacity to enable Legal, Organisational, Semantic, or Technical aspects needed for the development of interoperable public services. This association can be taken from ELIS the EIRA Library of Interoperability Specifications (ELIS) but also can be established ad-hoc.

- Not Answered
- Not Applicable
- ON O
- YES

* Justification

TOSCA is already associated with an EIRA ABB in the EIRA Library Of Specifications (ELIS). More specifically, the specificaiton can define the interoperability aspects of the Orchestration Component and Orchestration Service ABBs of the EIRA Technical View.

EIRA Library of Interoperability Specifications (ELIS):

https://joinup.ec.europa.eu/collection/common-assessment-method-standards-and-specifications-camss/solution/elis/release/v110

* A34 - To what extent can the conformance of the specification's implementations be assessed?

EIF Recommendation 21: Put in place processes to select relevant standards and specifications, evaluate them, monitor their implementation, check compliance and test their interoperability.

Relates to the implementation of the specification being conformant with the requirements established in the text of the specification. There are different methods to ensure the conformance of an implementation: check manually if the implementation meets the requirements in the specification text (if any), use additional methods or resources provided to this purpose or use specific tools provided by the SDO developing the specification.



Not Answered
Not Applicable
The specification does not include a definition of conformance.
The specification defines conformance but not as a set of measurable requirements.
The specification defines conformance as requirements that can be measured manually.
The specification defines conformance as requirements with resources to enable automated measurement.
The specification is complemented by a conformance testing platform to allow testing of implementations.
* Justification
TOSCA conformance can be manually assessed by following the TOSCA schema (CSAR) and the syntax and semantics defined in section 14 of the specification. Besides, the specification conformance requirements can be automatically measured via the OASIS Test Assertion Markup Language, as exemplified in TOSCA Github (see Github reference).
TOSCA reference: https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html
TOSCA-Github reference:
https://github.com/oasis-open/tosca-community-contributions/tree/master/tests
* A35 - Is the specification recommended by an European Member State? EIF Recommendation 23: Consult relevant catalogues of standards, specifications, and guidelines at the national and EU level, in accordance with your NIF and relevant DIFs, when procuring and developing ICT solutions.
Recommended specifications are these specifications that the Member States provide as examples for the implementation of certain digital public services or for being used when procuring these digital public services or
solutions.
Not Answered
Not Applicable

* Justification

NOYES

There is no Member State recommending TOSCA in its ICT National Catalogue.

CAMSS List of Standards:

https://joinup.ec.europa.eu/collection/common-assessment-method-standards-and-specifications-camss/camss-list-standards

* A36 - Is the specification selected for its use in an European Cross-border project/initiative?

EIF Recommendation 23: Consult relevant catalogues of standards, specifications, and guidelines at national and EU level, in accordance with your NIF and relevant DIFs, when procuring and developing ICT solutions.

The European Commission set up a process for the identification and assessment of specifications for its use in the development of IT solutions and also when procuring them. Find here the commission implementing decisions

that include the specifications identified by the European Commission: https://ec.europa.eu/growth/single-market/ /european-standards/ict-standardisation/ict-technical-specifications_en

Additionally, there could be other situations where a specification can be selected for European projects or
initiatives out of the scope of the above-mentioned context. These specifications can be considered positively in
this assessment.

Not	Answ	/ered

Not Applicable

ON O

YES

* Justification

Besides CELAR and Indigo projects, the European Union is committed to the development of open source utilities that can be used in industry as well as in research. It is the case of the RADON project, where TOSCA is used as the project's Infrastructure as code (IaC) format centerstage.

RADON project reference:

https://radon-h2020.eu/

* A37 - Is the specification included in an open repository/catalogue of standards at national level?

EIF Recommendation 23: Consult relevant catalogues of standards, specifications, and guidelines at the national and EU level, in accordance with your NIF and relevant DIFs, when procuring and developing ICT solutions.

EIF Recommendation 6: Reuse and share solutions, and cooperate in the development of joint solutions when implementing European public services.

- Not Answered
- Not Applicable
- NO
- YES

* Justification

TOSCA is not included in any Member States' catalogues of recommended specifications.

CAMSS List of Standards:

https://joinup.ec.europa.eu/collection/common-assessment-method-standards-and-specifications-camss/camss-list-standards

* A38 - Is the specification included in an open repository/catalogue of standards at European level?

EIF Recommendation 23: Consult relevant catalogues of standards, specifications, and guidelines at the national and EU level, in accordance with your NIF and relevant DIFs, when procuring and developing ICT solutions.

EIF Recommendation 6: Reuse and share solutions, and cooperate in the development of joint solutions when implementing European public services.

- Not Answered
- Not Applicable
- ON O

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* .	HISTITI	cation

TOSCA is included in the EUOS European catalogue of standards.

EUOS reference:

https://www.standict.eu/standards-repository

Legal Interoperability

* A39 - Is the specification a European Standard?

EIF Recommendation 27: Ensure that legislation is screened by means of 'interoperability checks', to identify any barriers to interoperability. When drafting legislation to establish a European public service, seek to make it consistent with relevant legislation, perform a 'digital check', and consider data protection requirements.

European Standards are those standards developed by certain organisations dedicated to this purpose. CEN, CENELEC, and ETSI are the principal organisations and all of them are developing their standards under the basis of meeting the requirements established within the European Standardisation Regulation. CEN-CENELEC homepage: https://www.cencenelec.eu/

- Not Answered
- Not Applicable
- ON
- YES

* Justification

After checking the different standard catalogues at supra-national level, there is no evidence of TOSCA as a European standard.

ICT technical specifications:

https://ec.europa.eu/growth/single-market/european-standards/ict-standardisation/ict-technical-specifications_en

CENELEC and CEN search tool catalogue:

https://standards.cencenelec.eu/dyn/www/f?p=CEN:105::RESET::::

Organisational Interoperability

* A40 - Does the specification facilitate the modelling of business processes?

EIF Recommendation 28: Document your business processes using commonly accepted modelling techniques and agree on how these processes should be aligned to deliver a European public service.

-		
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	INOL	Answered

Not Applicable

0

NO

YES

* Justification

TOSCA provides a metamodel facilitating the modelling of business processes. Apart from the Service Template, the specification describes the orchestration processes defining the process models that are used to manage a service throughout its lifetime.

TOSCA reference, Glossary section:

https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html#_Toc26969419

* A41 - To what extent does the specification facilitate organisational interoperability agreements?

EIF Recommendation 29: Clarify and formalise your organisational relationships for establishing and operating European public services.

Relates to specifications' capacities to help and ease the creation and formalisation of Interoperability agreements. E.g. Memorandums of Understanding (MoUs), Services Level Agreements (SLAs).

- Not Answered
- Not Applicable
- The specification's definition hinders the drafting of such agreements.
- The specification makes no provisions that would facilitate the drafting of such agreements.
- The specification defines certain elements to facilitate such agreements.
- The specification defines most elements to facilitate such agreements.
- The specification explicitly identifies all elements to be used in drafting such agreements.

* Justification

TOSCA enhances the interoperability capabilities of multiple components, as the specification describes well-defined messages and protocols in different use cases. This allows components from different vendors to be combined and services to be managed seamlessly.

TOSCA reference, Artifact Processing and creating Portable Service Templates section: https://docs.oasis-open.org/tosca/TOSCA-Simple-Profile-YAML/v1.3/os/TOSCA-Simple-Profile-YAML-v1.3-os.html#_Toc26969502

Semantic Interoperability

* A42 - Does the specification encourage the creation of communities along with the sharing of their data and results on national platforms?

<u>EIF Recommendation 32:</u> Support the establishment of sector-specific and cross-sectoral communities that aim to create open information specifications and encourage relevant communities to share their results on national and European platforms.

Relates to specifications that are narrowly related to the data/information being exchanged, its format, and

	cture. It would allow a common method/mechanism to improve its reuse and exchange removing possible ations. An example of it could be RDF, which is used to describe information and its metadata using specific
synt	tax and serialisation.
0	Not Answered
0	Not Applicable
(NO NO
0	YES
Justi	ification
	The TOSCA Technical Committee provides feature requests to open source projects and results of implementation experience to open source communities; however, not in national platforms.
	OASIS TOSCA TC reference:
	https://www.oasis-open.org/committees/tc_home.php?wg_abbrev=tosca
A 43	- Does the specification encourage the creation of communities along with the sharing of their
data	and results on European platforms?
EIF	Recommendation 32: Support the establishment of sector-specific and cross-sectoral communities that aim
to cr	reate open information specifications and encourage relevant communities to share their results on national
and	European platforms.
struction in structure synt	ates to specifications that are narrowly related to the data/information being exchanged, its format, and cture. It would allow a common method/mechanism to improve its reuse and exchange removing possible rations. An example of it could be RDF, which is used to describe information and its metadata using specific rax and serialisation. Not Answered Not Applicable NO YES
Justi	fication
	Apart from the TOSCA Technical Committee, there is active participation from external open communities that creates open information and encourages the publication of such data on international platforms (e.g. Github, Confluence), including European platforms.
	TOSCA-Github reference: https://github.com/oasis-open/tosca-community-contributions

Useful links

TOSCA-Confluence reference:

https://wiki.onap.org/display/DW/TOSCA+Task+Force

CAMSS Joinup Page (https://joinup.ec.europa.eu/collection/common-assessment-method-standards-and-specifications-camss)

<u>CAMSS Library of Assessments (https://joinup.ec.europa.eu/collection/common-assessment-method-standards-and-specifications-camss/camss-assessments-library)</u>

<u>CAMSS Assessment EIF Scenario - User Guide (https://joinup.ec.europa.eu/collection/common-assessment-method-standards-and-specifications-camss/solution/camss-assessment-eif-scenario/camss-assessment-eif-scenario-quick-user-guide)</u>

Contact

DIGIT-CAMSS@ec.europa.eu



CAMSS Assessment EIF Scenario v5.0.0 - Results

CAMSS Assessment Result

Thank you for your contribution.

The score of the specification related to the scenario under which it is being evaluated depends on the scores achieved in each section of the survey. Please see the example below for guidance.

The following table shows the 'compliance levels' that a specification can reach depending on the assessment score.

EIF Scenario Compliance Level Conversion Table

			Compliance Level		
Section	Ad-hoc	Opportunistic	Essential	Sustainable	Seamless
Principles setting the context for EU Actions on Interoperability	20	40	50	80	90
EIF Core Interoperability Principles	0 to 440	441 to 880	881 to 1320	1321 to 1760	1761 to 2200
EIF Principles Related to generic user needs and expectations	0 to 100	101 to 200	201 to 300	301 to 400	401 to 500

elf Foundation principles for cooperation among public administrations	0 to 100	101 to 200	201 to 300	301 to 400	401 to 500
EIF					
Interoperability Layers	0 to 220	221 to 440	441 to 660	661 to 880	881 to 1100

The table below expresses the range of the score per section. When used in combination with the table above, the total score can be interpreted. See the example below for guidance.

Section Compliance Conversion Table

Compliance Level	Description
Ad-hoc	Poor level of conformance with the EIF - The specification does not cover the requirements and recommendations set out by the EIF in this area.
Opportunistic	Fair level of conformance with the EIF - The specification barely covers the requirements and recommendations set out by the European Interoperability Framework in this area.
Essential	Essential level of conformance with the EIF - The specification covers the basic aspects set out in the requirement and recommendations from the European Interoperability Framework.
Sustainable	Good level of conformance with the EIF scenario - The specification covers all the requirements and recommendations set out by the European Interoperability Framework in this area.
Seamless	Leading practice of conformance level with the EIF - The specification fully covers the requirements and recommendations set out by the European Interoperability Framework in this area.

Example – How to find the final Compliance Level

Using the score reached after the initial assessment, the interpretation can be made as follows.

- 1. In the summary table, observe the score for each section, e.g. EIF Core Interoperability Principles has 2200 points.
- 2. In the middle table the Section Compliance Conversion Table see that this number correlates to a column. In our example, the 2200 points of Core Interoperability Principles fall in the EIF Core Interoperability Principles row, and '1761 to 2200' point range, placing it in the column 'Compliance **Seamless**'.

3. Next, in the top table – the EIF Scenario Compliance Level Conversion Table – we see Compliance Level " **Seamless**", and from its description that the specification for the EIF Core Interoperability Principles 'fully covers the requirements and recommendations set out by the European Interoperability Framework in this area.'.

For additional calculation of the assessment strength, please follow the instruction provided in the User Guide, found here.

Summary

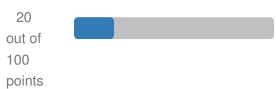


Section	Score fo	or this Section
EIF PRINCIPLES SETTING THE CONTEXT FOR EU ACTIONS ON INTEROPERABILITY	20/100	
EIF CORE INTEROPERABILITY PRINCIPLES	1640 /2100	
EIF PRINCIPLES RELATED TO GENERIC USER NEEDS AND EXPECTATIONS	500 /500	
EIF FOUNDATION PRINCIPLES FOR COOPERATION AMONG PUBLIC ADMINISTRATIONS	260 /500	
EIF INTEROPERABILITY LAYERS	760 /1100	

Scores by Question

EIF PRINCIPLES SETTING THE CONTEXT FOR EU ACTIONS ON INTEROPERABILITY

A1 - To what extent has the specification been included in a national catalogue from a Member State whose National Interoperability Framework has a high performance on interoperability according to National Interoperability Framework Observatory factsheets?



EIF CORE INTEROPERABILITY PRINCIPLES

Score for this Section: 1640/2100

A2 - Does the specification facilitate the publication of open data?

Your

✓ Not Applicable answer

100 out of 100 points

A3 - To what extent do stakeholders have the opportunity to contribute to the development of the specification?

Your The working group is open to participation answer following a registration process.

80 out of 100 points

A4 - To what extent is a public review part of the release lifecycle?

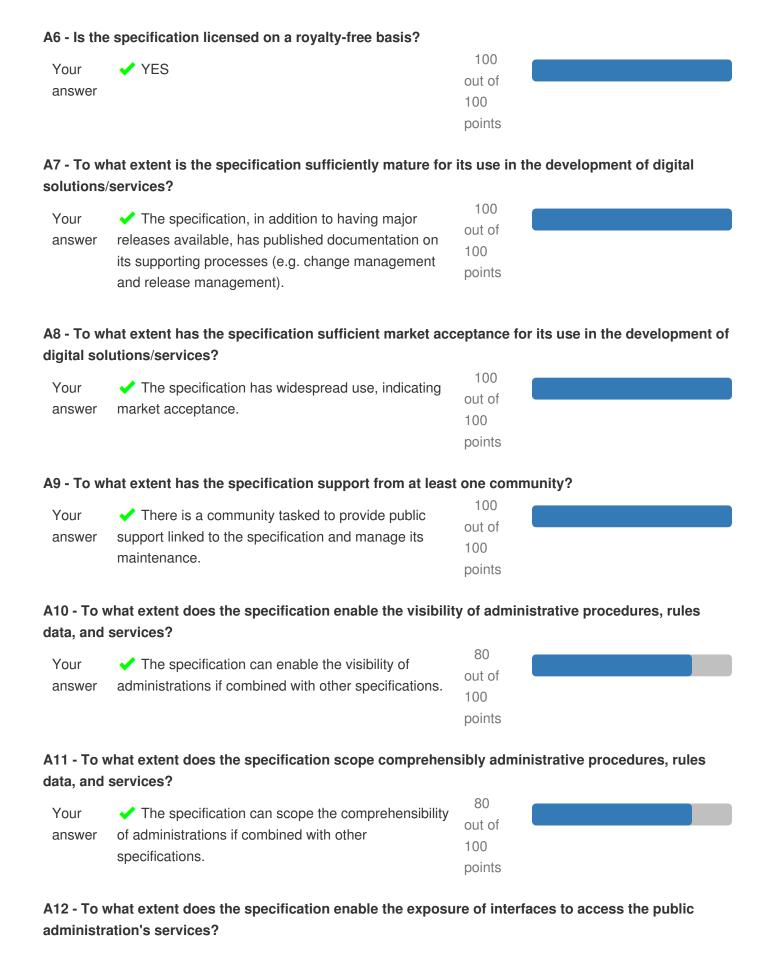
Your Specification releases do not foresee public answer reviews.

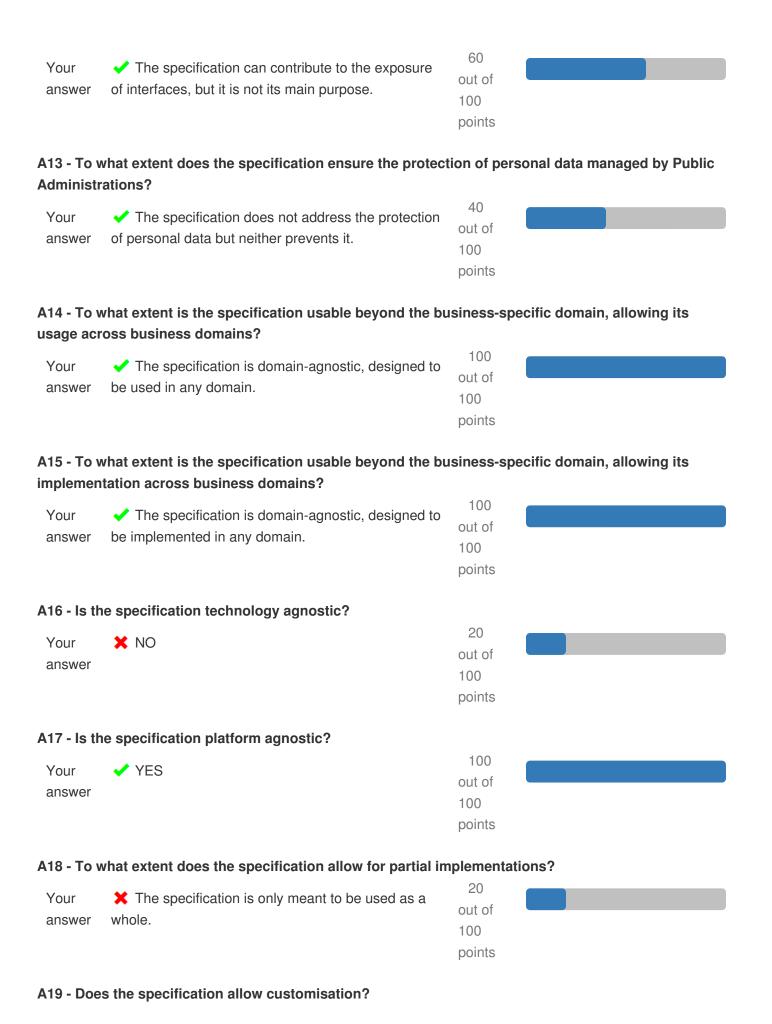
20 out of 100 points

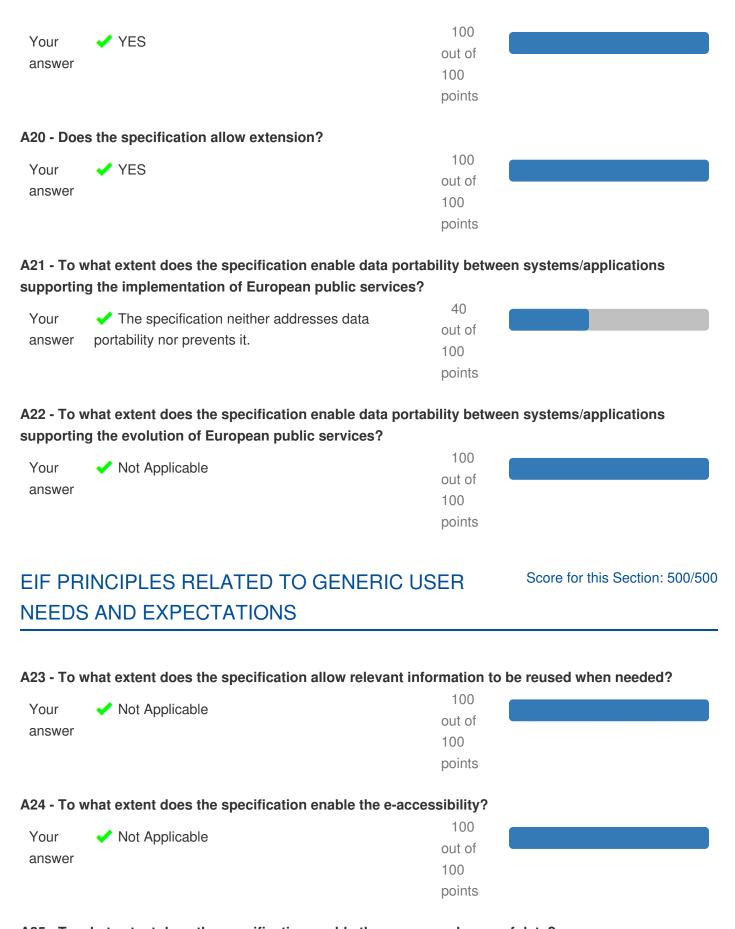
A5 - Is the specification available with any restrictions related to Fair, Reasonable, and Non-Discriminatory ((F)RAND)?

Your YES answer

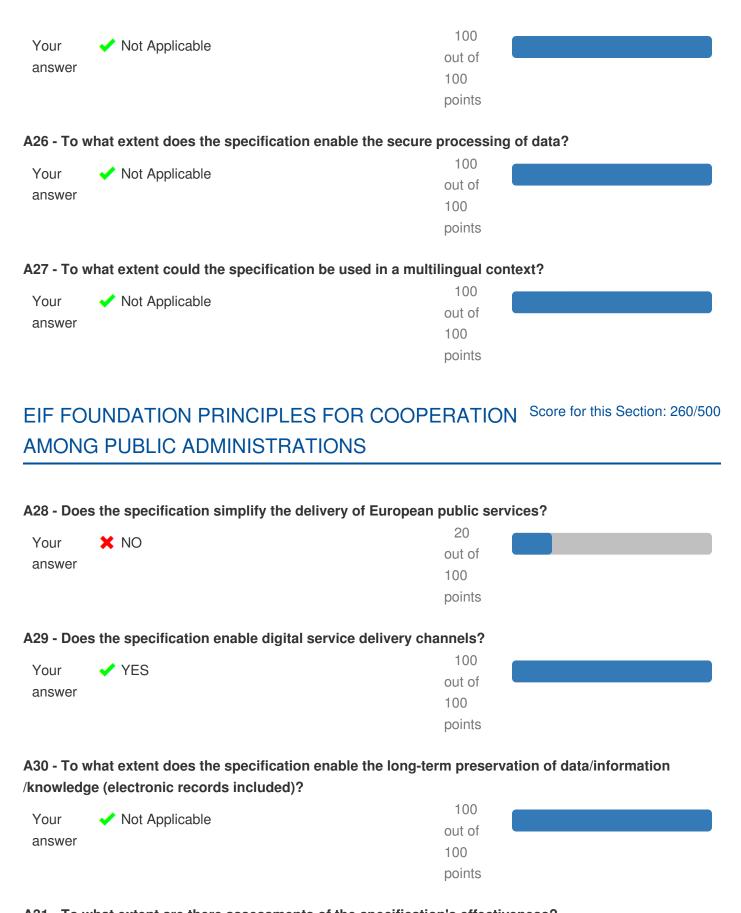




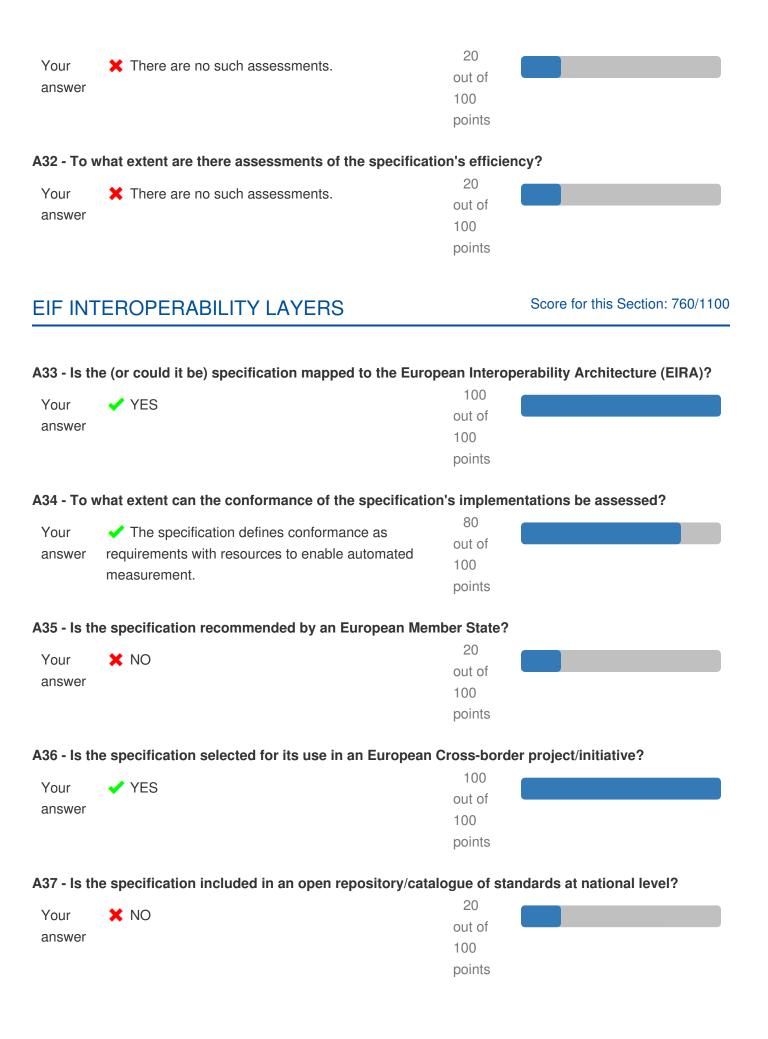




A25 - To what extent does the specification enable the secure exchange of data?



A31 - To what extent are there assessments of the specification's effectiveness?



A38 - Is the specification included in an open repository/catalogue of standards at European level? 100 Your YES out of answer 100 points A39 - Is the specification a European Standard? 20 Your X NO out of answer 100 points A40 - Does the specification facilitate the modelling of business processes? 100 Your YES out of answer 100 points A41 - To what extent does the specification facilitate organisational interoperability agreements? 100 Your ✓ The specification explicitly identifies all elements out of answer to be used in drafting such agreements. 100 points A42 - Does the specification encourage the creation of communities along with the sharing of their data and results on national platforms? 20 Your × NO out of answer 100 points A43 - Does the specification encourage the creation of communities along with the sharing of their data and results on European platforms? 100 Your YES out of answer 100 points Contact DIGIT-CAMSS@ec.europa.eu **CAMSS Joinup Page** Useful links **CAMSS Library of Assessments**

CAMSS Assessment EIF Scenario - User Guide

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Completion time -