CAMSS Assessment EIF Scenario v6.0.0

Fields marked with * are mandatory.

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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 **interoperability specifications** 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

[CAMSS](#) 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.

| Section | Compliance Level | | | | |
	Ad-hoc	Opportunistic	Essential	Sustainable	Seamless
Principles setting the context for EU Actions on Interoperability	20	40	60	80	100
EIF Core Interoperability Principles	0 to 340	341 to 680	681 to 1020	1021 to 1360	1361 to 1700
EIF Principles Related to generic user needs and expectations	0 to 240	241 to 480	481 to 720	721 to 960	961 to 1200

EIF 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 200	201 to 400	401 to 600	601 to 800	801 to 1000

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 requirements 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 Assessment EIF Scenario implies that the user accepts that the EC is not liable on the assessment nor on any direct or indirect consequence/decision of such assesment.

The CAMSS Assessment EIF Scenario is 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 is licensed under the European Union Public License (EUPL)

IDENTIFICATION

Information on the information provider

Your Last name

Your First Name

CAMSS Team

Your Position / Role

* Your Organisation

European Commision DG - DIGIT

Your Contact phone number

* Would you like to be contacted for evaluation purposes in the context of your assessment? To see how your data is handled, please check again the Privacy statement here

In case you would like to be contacted, please select "yes" and provide your email.

○ Yes

◉ No

* Where 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 answered "Other" in the previous question, please specify how:

Information on the specification

* Specification type

Specification: Set of agreed, descriptive, and normative statements about how a specification should be designed or made.

Standard: Specification that is largely adopted and possibly endorsed.

Application Profile: An application profile "customises one or more existing specifications potentially for a given use case or a policy domain adding an end to end narrative describing and ensuring the interoperability of its underlying specification(s)".

Family: A family is a collection of interrelated and/or complementary specifications, standards, or application profiles and the explanation of how they are combined, used, or both.

- ⦿ Specification
- ⦾ Standard
- ⦾ Application Profile
- ⦾ Family of Specification

* Title of the specification

ISO/IEC 7498

* Version of the specification

1.0.0

* Description of the specification

ISO 7498 is a standard that specifies the basic reference model for Open Systems Interconnection (OSI). The OSI model is a conceptual framework that standardises the functions of a telecommunications system into seven abstraction layers. Each layer serves a specific purpose and interacts with the layers above and below it. The goal of the OSI model is to enable different systems to communicate with each other, regardless of the underlying hardware, software, or network architecture.

* URL from where the specification is distributed

https://www.iso.org/standard/20269.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)

* In case of Other SDO, please, provide its name:

> ISO (International Organization for Standardization)

* and, provide its URL:

> https://www.iso.org/home.htm

Contact information/contact person of the SDO

a) for the organisation

b) for the specification submitted

Information on the assessment of the specification

Reason for the submission, the need and intended use for the specification.

If any other evaluation of this specification is known, e.g. by Member States or European Commission projects, provide a link to this evaluation.

Considerations

Is the functional area of application for the formal specification addressing interoperability and eGovernment?

⦿ YES

○ NO

Additional Information

> ISO 7498 provides a general overview of the OSI model, describing the functions and interactions of each layer. The model is a crucial reference for understanding and designing network architectures and protocols in a standardized and modular manner. It helps ensure that different components of a network can be developed and maintained independently, promoting interoperability and flexibility in the design of communication systems.

EIF PRINCIPLES SETTING THE CONTEXT FOR EU ACTIONS ON INTEROPERABILITY

This category is related to the first underlying principle (UP) of the EIF Subsidiarity and Proportionality (UP1). The basis of this principle is to ensure that the EU Actions are taken or stated to improve national actions or decisions. Specifically, it aims to know if National Interoperability Frameworks are aligned with the EIF.

Please note that some of the questions have a prefilled answer depending on the SDO. To ensure it, please see that these questions include a help message that remarks it.

Subsidiarity and Proportionality

* **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 use 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-2021

- ○ 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 middle-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

ISO/IEC 7498:1 is not included in any national catalogue of recommended specifications whose Member State
NIF has a high performance on interoperability according to NIFO factsheets.

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

NIFO Factsheets:
https://joinup.ec.europa.eu/collection/nifo-national-interoperability-framework-observatory/digital-public-administration-factsheets-2023

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 data on the web?
EIF Recommendation 2: Publish the data you own as open data unless certain restrictions apply.

Relates to the ability of the specification to publish data as open data or not.
- ○ Not Answered
- ● Not Applicable
- ○ The specification does not support the publication of data on the web.
- ○ The specification supports the publication of data on the web but under a non-open license.
- ○ The specification supports the publication of data on the web with an open license, but in an unstructured format.
- ○ The specification supports publication of data on the web with an open license and in a structured, machine-readable format.
- ○ In addition to the previous question, the specification does not require proprietary software for the processing of its related data.
- ○ In addition to the previous question, the specification is or incorporates open standards (e.g. W3C).

* Justification

ISO/IEC 7498:1 does not directly facilitate the publication of data on the web, but it contributes to the broader goal of providing a common conceptual framework for the development and understanding of network protocols and communication systems.

ISO/IEC 7498:1:
https://www.iso.org/standard/20269.html

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

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.

Relates to in which measure the different stakeholders that a specification can benefit have the opportunity to participate 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.

* Justification

> Standards are developed by groups of experts called technical committees. These experts are put forward by ISO's national members. If a user interested in getting involved, they ought to contact their national standards body. Companies and individuals are not eligible to join ISO as members.
>
> ISO Technical committees:
> https://www.iso.org/get-involved.html

* 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

> This specification's releases do not foresee public reviews. While the life cycle of ISO/IEC 7498:1 is completely
> public, its content is not published on the web.
>
> ISO/IEC 7498:1:
> https://www.iso.org/standard/20269.html

* A5 - To what extent do restrictions and royalties apply to the specification's use?

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
- ○ The specification has no public definition of its Intellectual Property Right (IPR) policy or licence.
- ○ Use of the specification is restricted and requires the payment of royalty fees.
- ● Use of the specification is royalty-free but imposes an Intellectual Property Right (IPR) policy or licence that goes against Fair, Reasonable and Non-Discriminatory (F/RAND) principles.
- ○ Use of the specification is royalty-free and its Intellectual Property Right (IPR) policy or licence is aligned with Fair, Reasonable and Non-Discriminatory (F/RAND) principles.

* Justification

> In accordance with ISO/IEC JTC 1 and the ISO and IEC Councils, these International Standards are publicly available for Standardization purposes.
>
> Publicly Available Standards:
> https://standards.iso.org/ittf/PubliclyAvailableStandards/index.html

* A6 - To what extent is the specification sufficiently mature for its use in the development of digital solutions/services?

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

> ISO/IEC 7498:1 was initially released in 1984 and its second and current version was released in 1996. The specification goes under review every 5 years. Therefore, this version remains current. While all stages of the life cycle of the specification are public, its details are not.
>
> ISO/IEC 7498:1: https://www.iso.org/standard/20269.html

* A7 - 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 used to implement innovative solutions, then, the specification should not be considered as failing to meet the requirements of the criterion.

- ○ Not Answered
- ○ Not Applicable
- ○ 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 does not have market acceptance because it is directly used to create innovative solutions.

* Justification

> ISO/IEC 7498:1 is part of Joinup's catalogue of ICT Standards for Procurement. Joinup is the European Commission's one-stop shop for interoperable, open and free digital government ICT solutions, and an online space for e-Government professionals and enthusiasts to share and learn about digital public services and initiatives. Its market acceptance can further be evidenced by its integration in healthcare standards such as HL7 and FHIR.
>
> Joinup ISO/IEC 7498:1: https://joinup.ec.europa.eu/collection/ict-standards-procurement/solution/isoiec-7498-11994-information-technology-open-systems-interconnection-basic-reference-model-basic
>
> ISO/IEC 7498 in HL7 standard:
> https://www.disrupciontecnologica.com/hl7/

* A8 - 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 exist around 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

This specification is supported by ISO. In order to participate in creating standards, the user must be part of their national standards body (assuming their country is part of ISO). On the other hand, another group that also supports OSI standardisation include Ecma International, an industry association dedicated to the standardization of information and communication systems.

Ecma International:
https://ecma-international.org/

ISO Technical committees:
https://www.iso.org/get-involved.html

Transparency

* **A9 - 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

While ISO/IEC 7498:1 specifies the functions of seven abstraction layers, it does not explicitly address administrative procedures, rules data, or services in the context of visibility. Nonetheless, by adhering to ISO 11179, organizations ensure that their procedures for managing metadata are transparent and well-documented. This transparency facilitates understanding and collaboration among stakeholders involved in data management processes, ultimately promoting more efficient and effective data governance.

ISO/IEC 7498:1:
https://www.iso.org/standard/20269.html

* **A10 - 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

> ISO/IEC 7498:1, which defines the OSI (Open Systems Interconnection) model, does not comprehensively address administrative procedures, rules data, and services in a detailed manner. Even so, given that the OSI model provides a common basis for the coordination of standards development for the purpose of systems interconnection, it can be understood that comprehensibility is taken into consideration.
>
> ISO/IEC 7498:1:
> https://www.iso.org/standard/20269.html

* A11 - 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

> ISO/IEC 7498:1 primarily focuses on providing a conceptual framework for network communication. It does not explicitly address the exposure of interfaces to access public administration's services. The OSI model is more concerned with the abstraction of functions into layers to facilitate interoperability and communication between different systems.
>
> ISO/IEC 7498:1:
> https://www.iso.org/standard/20269.html

Reusability

* A12 - 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 implemented or used in other domains.

○ The specification is associated with a specific domain but its implementation and/or use in other domains is difficult.

○ The specification is associated with a specific domain but could be partially implemented and/or used in other domains.

○ The specification is associated with a specific domain but could be implemented and/or used 'as-is' to other domains.

● The specification is domain-agnostic, designed to be implemented and/or used in any domain.

* Justification

> ISO/IEC 7498:1 is intended to be a generic and conceptual framework for network communication. Its design and abstraction make it applicable and usable across various business domains. The OSI model provides a structured approach to understanding and developing network protocols, allowing for interoperability between different systems and vendors.
>
> ISO/IEC 7498:1:
> https://www.iso.org/standard/20269.html

Technological Neutrality and Data Portability

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* A13 - 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.

Technology-neutrality relates to not being dependent on any other ("sister") specifications, and platform-neutrality, not being dependent on any specific environment, web platform, operating system.

○ Not Answered

○ Not Applicable

○ NO

● YES

* Justification

> ISO/IEC 7498:1 is designed to be technology-agnostic. The OSI model is a conceptual framework that outlines the functions of a communication system and organises these functions into seven abstraction layers. It does not prescribe specific technologies, protocols, or implementations.
>
> ISO/IEC 7498:1:
> https://www.iso.org/standard/20269.html

* A14 - 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.

Technology-neutrality relates to not being dependent on any other ("sister") specifications, and platform-neutrality, not being dependent on any specific environment, web platform, operating system.

- ⊙ Not Answered
- ⊙ Not Applicable
- ⊙ NO
- ⦿ YES

* Justification

> ISO/IEC 7498:1 does not prescribe specific hardware, operating systems, or platforms.The platform-agnostic nature of the OSI model allows for the development of network protocols and communication systems that can work across diverse platforms, operating systems, and hardware architectures.
>
> ISO/IEC 7498:1:
> https://www.iso.org/standard/20269.html

* A15 - 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 defined in the documentation.

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

ISO/IEC 7498:1 is designed to allow for partial implementations. The layering concept of the OSI model facilitates the development and deployment of network communication protocols in a modular and flexible manner. Each layer in the OSI model is responsible for specific functions, and the interfaces between layers are well-defined. This modular design enables developers to implement only the layers that are relevant to their specific needs.

ISO/IEC 7498:1:
https://www.iso.org/standard/20269.html

* A16 - 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 Applicable
- ○ NO
- ● YES

* Justification

While ISO/IEC 7498:1 is not prescriptive about specific technologies or protocols, it does allow for customisation given that it provides a structure that can be adapted to different needs and environments. Customisation within the OSI model can occur at various levels such as layering adaptations and interface definitions.

ISO/IEC 7498:1:
https://www.iso.org/standard/20269.html

* A17 - 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 extension is Core Vocabularies, which are a set of general requirements fitting in different contexts that can complement each other in a sort of extensibility practice to fit specific business requirements in any implementation.

- ○ Not Answered
- ○ Not Applicable
- ○ NO
- ● YES

* Justification

ISO/IEC 7498:1, defining the OSI (Open Systems Interconnection) model, does not mention extension of the specification. Even so, extension would be most likely possible as long as it does not interfere with the main requirements of the specification.

ISO/IEC 7498:1:
https://www.iso.org/standard/20269.html

* A18 - To what extent does the specification enable data portability between systems/applications supporting the implementation or 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

While the OSI model itself is not a direct enabler of data portability, it can be part of the broader ecosystem of standards and frameworks that contribute to interoperability. Achieving effective data portability typically requires a combination of standardised data formats, well-defined APIs (Application Programming Interfaces), and adherence to relevant regulations and guidelines.

ISO/IEC 7498:
https://www.iso.org/standard/20269.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

* A19 - 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.

First European Data Space, Once Only Technical System (OOTS):
https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Once+Only+Technical+System

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

> ISO/IEC 7498:1 is primarily a conceptual framework for network communication and does not explicitly address the reuse of information in terms of data or content. However, the principles of modularity and layering within the OSI model indirectly support the reuse of relevant information.
>
> ISO/IEC 7498:1:
> https://www.iso.org/standard/20269.html

Inclusion and Accessibility

* A20 - 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/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 ISO ISO/IEC 7498:1 is not related to e-accessibility. Therefore, this criterion is considered not

applicable to this specification.

ISO/IEC 7498:1:
https://www.iso.org/standard/20269.html

Privacy

* A21 - To what extent does the specification ensure the protection of personal data managed by Public Administrations?

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.

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

While ISO/IEC 7498:1 may not directly address data protection, the specification can be part of a broader IT infrastructure that, when implemented and managed in accordance with applicable standards and regulations, contributes to a secure and reliable network environment for the handling of personal data by public administrations.

ISO/IEC 7498:1:
https://www.iso.org/standard/20269.html

* A22 - Does the specification provide means for restriction of access to information/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.

The principle of confidentiality defines that only the sender and the intended recipient(s) must be able to create the content of a message. Confidentiality have compromised if an unauthorized person is able to create a message.

○ Not Answered

○ Not Applicable

○ The specification prevents or does not support the implementation of confidentiality mechanisms/features.

○ The specification neither addresses confidentiality nor prevents it.

○ The specification addresses confidentiality but without specific provisions to enable it.

● The specification introduces certain aspects that can contribute to enabling confidentiality.

○ The specification explicitly addresses and enables the implementation of features to guarantee confidentiality.

* Justification

> ISO/IEC 7498:1 has a specific section called "Session Layer" whose purpose is to provide the means necessary for cooperating presentation-entities to organise and to synchronise their dialogue and to manage their data exchange. One of the services provided is token management, which allows the presentation-entities to control explicitly whose turn it is to exercise certain control functions.
>
> ISO/IEC 7498:1:
> https://www.iso.org/standard/20269.html

* A23 - Is the specification included in any initiative at European or National level covering privacy aspects?

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.

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.

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.

For example, the ETSI (Electronic Signatures and Infrastructures) family of specifications are part of the trust establishment of the eDelivery solution, ensuring that its implementation is salient to guarantee security and privacy.

○ Not Answered

● Not Applicable

○ Yes, but at national or regional level.

○ Yes, at European level.

* Justification

> At the moment of performing the assessment, no initiative at national or European level has been found to use ISO/IEC 7498:1 to cover privacy aspects.
>
> ISO/IEC 7498:1:
> https://www.iso.org/standard/20269.html

Security

Data processing and exchange

* A24 - To what extent does the specification enable the secure exchange of data?

<u>EIF Recommendation 15:</u> 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.

This 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

> ISO/IEC 7498:1 has a specific section called "Transport Layer" whose purpose is to provide transparent transfer of data between session-entities and relieves them from any concern with the detailed way in which reliable and cost effective transfer of data is achieved.
>
> ISO/IEC 7498:1:
> https://www.iso.org/standard/20269.html

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

<u>EIF Recommendation 15:</u> 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

> While ISO/IEC 7498:1 does not prescribe specific security measures for data processing, it provides a conceptual framework that can be part of the broader context of secure communication. Security practices need to be implemented across the entire system architecture, including the application layer, middleware, and underlying infrastructure.
>
> ISO/IEC 7498:1:
> https://www.iso.org/standard/20269.html

Data authenticity

* A26 - To what extent the specification guarantees the authenticity and authentication of the roles agents involved in the data transactions?

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.

Authentication defines that users are who they request to be. Availability defines that resources are available by authorized parties; "denial of service" attacks, which are the subject matter of national news, are attacks against availability. The concerns of information security professionals are access control and Nonrepudiation. Authorization defines the power that it can have over distinguishing authorized users from unauthorized users, and levels of access in-between. Authenticity defines the constant checks that it can have to run on the system to make sure sensitive places are protected and working perfectly."

○ Not Answered
● Not Applicable
○ The specification prevents or does not support the implementation of authentication features.
○ The specification neither addresses authenticity nor prevents it.
○ The specification addresses the implementation of authenticity features but without specific provisions to enable it.
○ The specification introduces certain aspects that can contribute to enabling authenticity features.
○ The specification explicitly addresses and enables the implementation of authenticity features.

*Justification

> ISO/IEC 7498:1 does not explicitly address the authenticity and authentication of roles or agents involved in data transactions. Ensuring the authenticity and authentication is typically addressed at higher layers of the OSI model, such as the presentation layer, session layer, and application layer.
>
> ISO/IEC 7498:1:
> https://www.iso.org/standard/20269.html

Data integrity

* A27 - To what extent information is protected against unauthorised changes?

23

Integrity defines that information is protected against unauthorized changes that are not perceptible to authorized users; some incidents of hacking compromise the integrity of databases and multiple resources.

- ○ Not Answered
- ○ Not Applicable
- ○ The specification prevents or does not support the implementation of data integrity mechanisms /features.
- ○ The specification neither addresses data integrity nor prevents it.
- ○ The specification addresses data integrity but without specific provisions to enable it.
- ● The specification introduces certain aspects that can contribute to enabling data integrity.
- ○ The specification explicitly addresses and enables the implementation of features to guarantee data integrity.

* Justification

> ISO/IEC 7498:1 has a specific section called "Session Layer" whose purpose is to provide the means necessary for cooperating presentation-entities to organise and to synchronise their dialogue and to manage their data exchange. One of the services provided is token management, which allows the presentation-entities to control explicitly whose turn it is to exercise certain control functions.
>
> ISO/IEC 7498:1: https://www.iso.org/standard/20269.html

Data accuracy

* A28 - To what extent does the specification ensure and enable data processing accuracy?

The accuracy and completeness of information systems and the data supported within the systems should be an administration concern. The information which has been inappropriately changed or destroyed (by external or employees) can impact the organization. Each organization should make controls to provide that data entered into and saved in its automated files and databases are complete and accurate and provide the accuracy of disseminated data.

- ○ Not Answered
- ● Not Applicable
- ○ The specification prevents or does not support the implementation of data accuracy mechanisms/features.
- ○ The specification neither addresses data accuracy nor prevents it.
- ○ The specification addresses data accuracy but without specific provisions to enable it.
- ○ The specification introduces certain aspects that can contribute to enabling data accuracy.
- ○ The specification explicitly addresses and enables the implementation of features to guarantee data accuracy.

* Justification

> Data processing accuracy is a broader concern that encompasses various aspects of information handling, including data input, processing algorithms, storage, and output. The accuracy of data processing is typically addressed at higher layers of the system architecture and involves considerations beyond the OSI model.

ISO/IEC 7498:1: https://www.iso.org/standard/20269.html

Access Control

* A29 - To what extent does the specification provide an access control mechanism?

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.

The principle of access control decides who must be able to access what. For example, it must be able to define that user A can view the data in a database, but cannot refresh them. User A can be allowed to create updates as well. An access-control mechanism can be installed to provide this. Access control is associated with two areas including role management and rule management. Role management applies on the user side, whereas rule management targets the resources side.

- ◎ Not Answered
- ◎ Not Applicable
- ◎ The specification does not provide access control mechanisms.
- ◎ The specification neither addresses nor prevents access control mechanisms.
- ◎ The specification addresses access control mechanisms but without specific provisions to enable them.
- ◉ The specification introduces certain aspects that can contribute to enabling access control mechanisms.
- ◎ The specification explicitly foresees a set of requirements for the enabling of access control mechanisms.

* Justification

ISO/IEC 7498:1 has a specific section called "Session Layer" whose purpose is to provide the means necessary for cooperating presentation-entities to organise and to synchronise their dialogue and to manage their data exchange. One of the services provided is token management, which allows the presentation-entities to control explicitly whose turn it is to exercise certain control functions.

ISO/IEC 7498:1: https://www.iso.org/standard/20269.html

Multilingualism

* A30 - 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

> ISO/IEC 7498:1 is designed to be language-agnostic and can be used in a multilingual context. The OSI model is well-suited for use in a multilingual context, as its conceptual framework is independent of language, and it has been employed internationally in the development of network communication standards.
>
> ISO/IEC 7498:1: https://www.iso.org/standard/20269.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

* A31 - Does the specification simplify the delivery of European public services?

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.

A positive answer would cover every specification easing digitalisation and administratice simplification by for example helping an Identification service access a Digital Portfolio with citizens information.

- ○ Not Answered
- ○ Not Applicable
- ○ NO
- ● YES

* Justification

> While ISO/IEC 7498:1 itself does not directly address the delivery of public services, it plays a foundational role in the development and interoperability of networking protocols, which directly impacts the efficiency and effectiveness of various services. Moreover, the principles it espouses underpin the design and operation of many digital services today. Governments and public sector organizations that leverage these principles can enhance the delivery of services, making them more accessible, reliable, and user-friendly for the public.
>
> ISO/IEC 7498:1:
> https://www.iso.org/standard/20269.html

* A32 - Does the specification enable digital service delivery channels?

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.

A positive answer would cover that a specification eases or provides better means of delivering public services as a good asset for digitalisation and administrative simplification. For instance, a specification directly related to API performance easing and improving the delivery of a Digital Public Service through an API.

○ Not Answered
○ Not Applicable
○ NO
◉ YES

* Justification

> Digital service delivery channels involve the use of digital technologies to provide services to users or customers. These channels can include websites, mobile applications, APIs (Application Programming Interfaces), and other digital platforms. The OSI model, as a conceptual framework, contributes to the development and interoperability of protocols that may be used in creating these digital service delivery channels.
>
> ISO/IEC 7498:1:
> https://www.iso.org/standard/20269.html

Preservation of Information

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* A33 - 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

> Long-term preservation of data, information, and electronic records involves considerations that extend beyond the scope of the OSI model. Therefore, this criterion is considered not applicable to this specification.
>
> ISO/IEC 7498:1: https://www.iso.org/standard/20269.html

Assessment of Effectiveness and Efficiency

* A34 - To what extent are there assessments of the specification's effectiveness?

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

Effectiveness: *the extent to which the specifications 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

> The effectiveness of ISO/IEC 7498:1 is often evaluated through various means, including practical implementations and pilot projects. For instance, a 2016-paper uses the OSI Layer model, which has defined the theoretical architecture for network communications, as the starting point for innovating additional Layer 2 security requirements for a protected stack, which demonstrates the effectiveness of the specification as it is taken into account.
>
> Innovating additional Layer 2 security requirements for a protected stack:
> https://ro.ecu.edu.au/ism/184/

* A35 - 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

> Assessments of the efficiency of this asssessment primarily involve evaluating the performance, scalability, and practicality of implementations. A 2019-paper about Integrated Security Management Systems mentions ISO/IEC 7498:1 as one of the key standards analysed to suggest an approach to the development of integrated security and safety management system struc-ture considering threats of intrusion into physical, information and signal spaces, demonstrating how efficient the specification can be.
>
> Integrated Security Management System for Enterprises in Industry 4.0: https://www.researchgate.net /publication/336027597_Integrated_Security_Management_System_for_Enterprises_in_Industry_40

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

* A36 - Is the (or could it be) specification mapped to the European Interoperability Architecture (EIRA)?

EIF Recommendation 20: 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
- ○ NO
- ● YES

* Justification

> At the time of elaborating this assessment, this specification is included in the current European Library Of Specifications (ELIS). It is also included in the "Data Space" and "Data Space Connector" ABB, specifically the Technical Application layer.
>
> EIRA Library of Interoperability Specifications (ELIS):
> https://joinup.ec.europa.eu/collection/common-assessment-method-standards-and-specifications-camss /solution/elis/release/600

* A37 - 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

> This specification has a section dedicated compliance and consistence with the OSI reference model. Section 9.2 details the application of consistency and compliance requirements regarding ISO/IEC 7498:1.
>
> ISO/IEC 7498:1:
> https://www.iso.org/standard/20269.html

* A38 - Is the specification recommended by a 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
- ◎ NO
- ⦿ YES

* Justification

> ISO/IEC 7498:1 is part of the UNE's catalogue of standards. UNE is Spain's only Standardisation Organisation, designated by the Spanish Ministry of Economy, Industry and Competitiveness to the European Commission. Through its activities, it fosters the development of an infrastructure of quality by promoting knowledge transfer and raising business standards.
>
> UNE:
> https://www.en.une.org//

* A39 - Is the specification selected for its use in a 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 Answered
○ Not Applicable
○ NO
◉ YES

* Justification

ISO/IEC 7498:1 is part of Joinup's calogue of ICT Standards for Procurement. Joinup is the European Commission's one-stop shop for interoperable, open and free digital government ICT solutions, and an online space for e-Government professionals and enthusiasts to share and learn about digital public services and initiatives.

ISO/IEC 7498:1 Joinup:
https://joinup.ec.europa.eu/collection/ict-standards-procurement/solution/isoiec-7498-11994-information-technology-open-systems-interconnection-basic-reference-model-basic

*** A40 - 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

ISO/IEC 7498:1 is included in the standards catalogue of UNE, which is the sole Standardization Organization in Spain. UNE has been designated by the Spanish Ministry of Economy, Industry, and Competitiveness to represent Spain to the European Commission. Through its initiatives, UNE actively contributes to the advancement of a quality infrastructure by facilitating knowledge transfer and elevating business standards.

UNE:
https://www.en.une.org//

*** A41 - Is the specification included in an open repository/catalogue of standards at European level?**

  ◉ Not Answered

  ◉ Not Applicable

  ◉ NO

  ◉ YES

* Justification

> This specification is included in the solutions catalogue of ICT Standards for Procurement created by the European Commision. The European Catalogue will contribute to these objectives by offering a one-stop shop for procurers on guidelines for procurement, including on vendor lock-in, on the use of standards, and a lifecycle costing scheme that accounts for the often neglected interoperability costs. It will streamline the numerous guidelines and provide for a platform of exchange and dissemination.
>
> ICT Standards for Procurement:
> https://joinup.ec.europa.eu/collection/ict-standards-procurement

Legal Interoperability

* A42 - Is the specification a European Standard?

  ◉ Not Answered

  ◉ Not Applicable

  ◉ NO

  ◉ YES

* Justification

> While ISO standards, including ISO/IEC 7498:1, are internationally recognized and widely used, they are not European Standards in the sense of being developed and published by CEN or CENELEC specifically for the European region.
>
> ISO/IEC 7498:1:
> https://www.iso.org/standard/20269.html

Organisational Interoperability

* A43 - 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.

- ◯ Not Answered
- ◯ Not Applicable
- ◯ NO
- ◉ YES

* Justification

> While ISO/IEC 7498:1 may not be directly applicable to business process modeling, it is essential for establishing communication standards and protocols in networked systems, given that the concepts and structured approach it embodies can provide valuable insights and principles that can be applied to the modeling, analysis, and improvement of business processes, especially in environments where information systems and networked operations play a critical role.
>
> ISO/IEC 7498:1:
> https://www.iso.org/standard/20269.html

* A44 - 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

> The ISO/IEC 7498:1 focuses on organising communication functions into layers to enhance interoperability of network protocols. Organisational interoperability involves the ability of different organizations or entities to work together efficiently and effectively, sharing information and resources. In that sense, the OSI model may contribute by providing standardised communication protocols and interoperability at the network layer.
>
> ISO/IEC 7498:1: https://www.iso.org/standard/20269.html

Semantic Interoperability

* A45 - Does the specification encourage the creation of communities along with the sharing of their data and results in national and/or European platforms?

EIF Recommendation 32: 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 structure. It would allow a common method/mechanism to improve its reuse and exchange removing possible limitations. An example of it could be RDF, which is used to describe information and its metadata using specific syntax and serialisation.

- ○ Not Answered
- ○ Not Applicable
- ○ Yes, but at national or regional level.
- ● Yes, at European platforms.

* Justification

> The specification clearly encourages the creation of communities along with the sharing of their data and results as its purpose is to improve cloud computing portability and interoperability, thus improving communication between different actors. Furthermore, ISO/IEC 7498:1 has been included in different catalogues of ICT standards in a European level therefore, it is an important standard to consider.
>
> ISO/IEC 7498:1:
> https://www.iso.org/standard/20269.html

Useful links

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

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

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)

Contact

CAMSS@everis.com

CAMSS Assessment EIF Scenario v6.0.0 - 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

Section	Ad-hoc	Opportunistic	Compliance Level Essential	Sustainable	Seamless
Principles setting the context for EU Actions on Interoperability	20	40	50	80	90
EIF Core Interoperability Principles	0 to 340	341 to 681	681 to 1020	1021 to 1360	1361 to 1700
EIF Principles Related to generic user needs and expectations	0 to 240	241 to 480	481 to 720	721 to 960	961 to 1200

EIF 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 200	201 to 400	401 to 600	601 to 800	801 to 1000

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 1800 points.

2. In the middle table – the Section Compliance Conversion Table – see that this number correlates to a column. In our example, the 1800 points of Core Interoperability Principles fall in the EIF Core Interoperability Principles row, and '1441 to 1800' 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

Your Score   3700

Maximum Score   4500

Section	Score for this Section	
EIF PRINCIPLES SETTING THE CONTEXT FOR EU ACTIONS ON INTEROPERABILITY	20/100	
EIF CORE INTEROPERABILITY PRINCIPLES	1360 /1700	
EIF PRINCIPLES RELATED TO GENERIC USER NEEDS AND EXPECTATIONS	980 /1200	
EIF FOUNDATION PRINCIPLES FOR COOPERATION AMONG PUBLIC ADMINISTRATIONS	500 /500	
EIF INTEROPERABILITY LAYERS	840 /1000	

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?

Your answer — ❌ The specification has not been included within the catalogue of any Member State.

20 out of 100 points

EIF CORE INTEROPERABILITY PRINCIPLES

Score for this Section: 1360/1700

A2 - Does the specification facilitate the publication of data on the web?

Your answer — ✔ Not Applicable

100 out of 100 points

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

Your answer — ✔ The working group is open to participation by any stakeholder but requires registration, fees, and membership approval.

40 out of 100 points

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

Your answer — ❌ Specification releases do not foresee public reviews.

20 out of 100 points

A5 - To what extent do restrictions and royalties apply to the specification's use?

Your answer — ✔ Use of the specification is royalty-free but imposes an Intellectual Property Right (IPR) policy or licence that goes against Fair, Reasonable and Non-Discriminatory (F/RAND) principles.

80 out of 100 points

A6 - To what extent is the specification sufficiently mature for its use in the development of digital solutions/services?

Your answer   ✔️ The specification has published major releases but without public documentation on its supporting processes (e.g. change management and release management).

80 out of 100 points

A7 - To what extent has the specification sufficient market acceptance for its use in the development of digital solutions/services?

Your answer   ✔️ The specification does not have market acceptance because it is directly used to create innovative solutions.

100 out of 100 points

A8 - To what extent has the specification support from at least one community?

Your answer   ✔️ There is a community tasked to provide public support linked to the specification and manage its maintenance.

100 out of 100 points

A9 - To what extent does the specification enable the visibility of administrative procedures, rules data, and services?

Your answer   ✔️ The specification can enable the visibility of administrations if combined with other specifications.

80 out of 100 points

A10 - To what extent does the specification scope comprehensibly administrative procedures, rules data, and services?

Your answer   ✔️ The specification can contribute and promote the comprehensibility of administrations, but it is not its main purpose.

60 out of 100 points

A11 - To what extent does the specification enable the exposure of interfaces to access the public administration's services?

Your answer   ✔️ The specification neither promotes nor hinders the exposure of such interfaces.

40 out of 100 points

A12 - To what extent is the specification usable beyond the business-specific domain, allowing its usage across business domains?

Your answer	✔ The specification is domain-agnostic, designed to be implemented and/or used in any domain.	100 out of 100 points

A13 - Is the specification technology agnostic?

Your answer	✔ YES	100 out of 100 points

A14 - Is the specification platform agnostic?

Your answer	✔ YES	100 out of 100 points

A15 - To what extent does the specification allow for partial implementations?

Your answer	✔ The specification explicitly foresees sets of requirements that can be implemented incrementally or separately.	100 out of 100 points

A16 - Does the specification allow customisation?

Your answer	✔ YES	100 out of 100 points

A17 - Does the specification allow extension?

Your answer	✔ YES	100 out of 100 points

A18 - To what extent does the specification enable data portability between systems/applications supporting the implementation or evolution of European public services?

Your answer	✔ The specification addresses data portability but without specific provisions to enable it.	60 out of 100 points

EIF PRINCIPLES RELATED TO GENERIC USER NEEDS AND EXPECTATIONS

A19 - To what extent does the specification allow relevant information to be reused when needed?

Your answer	✔ There is limited reuse of provided information.	40 out of 100 points

A20 - To what extent does the specification enable the e-accessibility?

Your answer	✔ Not Applicable	100 out of 100 points

A21 - To what extent does the specification ensure the protection of personal data managed by Public Administrations?

Your answer	✔ The specification includes certain data protection considerations but without being exhaustive.	60 out of 100 points

A22 - Does the specification provide means for restriction of access to information/data?

Your answer	✔ The specification introduces certain aspects that can contribute to enabling confidentiality.	80 out of 100 points

A23 - Is the specification included in any initiative at European or National level covering privacy aspects?

Your answer	✔ Not Applicable	100 out of 100 points

A24 - To what extent does the specification enable the secure exchange of data?

Your answer	✔ The specification explicitly addresses and enables the secure and trustworthy exchange of data.	100 out of 100 points

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

| Your answer | ✔ The specification introduces certain aspects that can contribute to enabling the secure processing of data. | 40 out of 100 points |

A26 - To what extent the specification guarantees the authenticity and authentication of the roles agents involved in the data transactions?

| Your answer | ✔ Not Applicable | 100 out of 100 points |

A27 - To what extent information is protected against unauthorised changes?

| Your answer | ✔ The specification introduces certain aspects that can contribute to enabling data integrity. | 80 out of 100 points |

A28 - To what extent does the specification ensure and enable data processing accuracy?

| Your answer | ✔ Not Applicable | 100 out of 100 points |

A29 - To what extent does the specification provide an access control mechanism?

| Your answer | ✔ The specification introduces certain aspects that can contribute to enabling access control mechanisms. | 80 out of 100 points |

A30 - To what extent could the specification be used in a multilingual context?

| Your answer | ✔ Not Applicable | 100 out of 100 points |

EIF FOUNDATION PRINCIPLES FOR COOPERATION AMONG PUBLIC ADMINISTRATIONS

Score for this Section: 500/500

A31 - Does the specification simplify the delivery of European public services?

| Your answer | ✔ YES | 100 out of 100 points |

A32 - Does the specification enable digital service delivery channels?

| Your answer | ✔ YES | 100 out of 100 points |

A33 - To what extent does the specification enable the long-term preservation of data/information /knowledge (electronic records included)?

| Your answer | ✔ Not Applicable | 100 out of 100 points |

A34 - To what extent are there assessments of the specification's effectiveness?

| Your answer | ✔ There are such assessments directly addressing the specification. | 100 out of 100 points |

A35 - To what extent are there assessments of the specification's efficiency?

| Your answer | ✔ There are such assessments directly addressing the specification. | 100 out of 100 points |

EIF INTEROPERABILITY LAYERS

Score for this Section: 840/1000

A36 - Is the (or could it be) specification mapped to the European Interoperability Architecture (EIRA)?

| Your answer | ✔ YES | 100 out of 100 points |

A37 - To what extent can the conformance of the specification's implementations be assessed?

| Your answer | ✔ The specification defines conformance as requirements that can be measured manually. | 60 out of 100 points |

A38 - Is the specification recommended by a European Member State?

Your answer   ✔ YES

100 out of 100 points

A39 - Is the specification selected for its use in a European Cross-border project/initiative?

Your answer   ✔ YES

100 out of 100 points

A40 - Is the specification included in an open repository/catalogue of standards at national level?

Your answer   ✔ YES

100 out of 100 points

A41 - Is the specification included in an open repository/catalogue of standards at European level?

Your answer   ✔ YES

100 out of 100 points

A42 - Is the specification a European Standard?

Your answer   ✖ NO

20 out of 100 points

A43 - Does the specification facilitate the modelling of business processes?

Your answer   ✔ YES

100 out of 100 points

A44 - To what extent does the specification facilitate organisational interoperability agreements?

Your answer   ✔ The specification defines certain elements to facilitate such agreements.

60 out of 100 points

A45 - Does the specification encourage the creation of communities along with the sharing of their data and results in national and/or European platforms?

Your answer	✔ Yes, at European platforms.	100 out of 100 points

Contact	CAMSS@everis.com
Useful links	CAMSS Joinup Page
	CAMSS Library of Assessments
	CAMSS Assessment EIF Scenario - User Guide

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