

CAMSS Assessment EIF Scenario v6.0.0

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Scenario Version: 6.0.0

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 **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

CAMSS Team

Your First Name

Your Position / Role

* Your Organisation

European Commission 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

eDelivery Access Point (AP) Domibus

* Version of the specification

5.1

* Description of the specification

Domibus is an open-source, extensible, and scalable eDelivery Access Point (AP) software. It enables secure and reliable data exchange between various parties within a network.

* URL from where the specification is distributed

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

* 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:

European Commission

* and, provide its URL:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Digital+Homepage>

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

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

Domibus has not been found included in the national catalogue of any Member State.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

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 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

The purpose of Domibus is not related to the publication of data on the web. Therefore this criterion is not applicable to the specification.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

* 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**

Contributions to the development of Domibus can be proposed through the eDelivery Governance space, which hosts the eDelivery Operational Management Board (OMB). The OMB provides a vehicle for stakeholders to handle all operational matters of the CEF building block. It aims to ensure that the European Commission leads the implementation process of the building block with the advice of the Member States and to ensure that the private sector, user organisations and standardisation bodies play a role.

Domibus FAQs:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus+FAQs>

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

eDelivery governance space:

<https://ec.europa.eu/digital-building-blocks/wikis/display/EDELGOV/eDelivery+Governance>

*** 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**

Contributions and improvements on the open-source community can be requested through the bitbucket and Github repository, where reviews of Domibus are held. Nonetheless, developers feedback is only visible with the prior registration on the eDelivery user community.

eDelivery Developers community:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/eDelivery+Developers+Community+management>

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

Domibus in Bitbucket:

<https://ec.europa.eu/digital-building-blocks/code/projects/EDELIVERY/repos/domibus/browse?at=9d8ec59fcd>

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

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
- ☐ 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

Domibus is open-source and can be used and implemented without any restrictions related to (F)RAND principles. Moreover, it is released under the European Union Public License, which entails Royalty-free IPR policies.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

* A6 - 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**

The website from where Domibus is distributed has all the documentation about its supporting processes and the change and release management. In addition, all major and minor changes on the specification are tracked on the "roadmap and previous releases" section.

Domibus releases:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus+releases>

*** 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**

Domibus is currently being used and implemented by a large number of projects involving large-scale message exchange in the context of public services delivery. An example of projects using Domibus to deliver public services is the MAPA project, or the e-CODEX platform, which provides easy access to cross-border justice for citizens, business and legal professionals all over Europe.

Domibus implementation in MAPA project:

<https://mapa-project.eu/2022/01/F>

DomibusConnector Suite for e-CODEX:

<https://www.e-codex.eu/node/47>

*** 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**

Domibus has an active and engaged community that provides support, contributions, and collaboration to the project. Domibus is an open-source software solution developed and maintained by a community of users, developers, and contributors who are interested in secure electronic message exchange and interoperability.

eDelivery Developers community:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/eDelivery+Developers+Community+management>

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

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**

Domibus, as an eDelivery Access Point (AP) solution, is primarily designed to facilitate secure and reliable message exchange between different entities, particularly within the context of eGovernment services and cross-border data exchange. While Domibus itself focuses on message exchange, it can indirectly contribute to enabling the visibility of administrative procedures, rules data, and services by providing a platform for standardized communication.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

*** 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**

Domibus can contribute to the comprehensibility of data and services by promoting standardized messaging, and including metadata withing messages, thus providing additional context about the data being exchanged. This metadata enhances comprehensibility by offering insights into the purpose, source, and content of the messages.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

*** 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

Domibus facilitates the exchange of electronic messages and documents between different entities, such as government agencies, organizations, and partners. Its primary purpose is to ensure the secure, reliable, and standardized transmission of data while adhering to relevant standards like the AS4 profile of the ebMS standard.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

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

Domibus, is generally domain-agnostic in the sense that it can be used in various industries and sectors for facilitating communication between different entities. It provides a framework for exchanging electronic messages and documents while ensuring security, reliability, and adherence to standards like the AS4 (Applicability Statement 4) profile of the ebMS (eXML Messaging Service) standard.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

AS4 Profile of ebMS 3.0:

<http://docs.oasis-open.org/ebxml-msg/ebms/v3.0/profiles/AS4-profile/v1.0/AS4-profile-v1.0.html>

Technological Neutrality and Data Portability

*** 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**

Domibus, as an open-source messaging platform focused on secure and standardized message exchange, is designed to work with various underlying technologies. It is not tied to a specific technology and can be integrated with different components and systems depending on the implementation requirements.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

*** 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**

While Domibus itself is not tied to a specific operating system or platform, its implementation and deployment may have dependencies and considerations related to the underlying infrastructure.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

*** 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**

Domibus allow to deploy and use specific components or features of the platform based on a given organisation's requirements. Domibus modularity, therefore, makes it a flexible solutions that allow for partial implementations.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

*** 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**

Domibus allows for customisation, enabling developers to tailor the platform to meet the organization's specific requirements and integrate it effectively into your existing infrastructure. Customisation in Domibus involve aspects such as User Interface, integration with backend systems or security configuration, between others.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

*** 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

Domibus supports extension through its plugin mechanism and allows you to add custom features, integrations, and enhancements to meet specific requirements and extend its functionality.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

* **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

Domibus adheres to messaging standards such as the AS4 profile of the ebMS (ebXML Messaging Service) standard. This standardization promotes consistent data structures and formats during message exchange, which can aid in data portability by ensuring that data is correctly interpreted and processed by different systems.

AS4 Profile of ebMS 3.0:

<http://docs.oasis-open.org/ebxml-msg/ebms/v3.0/profiles/AS4-profile/v1.0/AS4-profile-v1.0.html>

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

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

Domibus enables the reuse of relevant information through features like message templates, standardized formats, metadata, integration with backend systems, customization, and real-time communication within its messaging scope.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

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**

While Domibus may not be the central solution for e-accessibility, it plays a role within the broader context of ensuring that digital services and systems are inclusive and usable for all individuals, including those with disabilities.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

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**

Domibus is designed to ensure the protection of personal data during the process of electronic message exchange. As an eDelivery Access Point (AP) solution, Domibus follows messaging standards such as the AS4 (Applicability Statement 4) profile of the ebMS (ebXML Messaging Service) standard, which includes features and mechanisms to enhance data security and privacy.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

AS4 Profile of ebMS 3.0:

<http://docs.oasis-open.org/ebxml-msg/ebms/v3.0/profiles/AS4-profile/v1.0/AS4-profile-v1.0.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**

Domibus provides means for restriction of access to information through its access control mechanisms, which allow to manage user roles, permissions, and access rights within the Domibus platform. Interaction with specific information or functionalities can be managed by the access control settings.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

AS4 specification:

<http://docs.oasis-open.org/ebxml-msg/ebms/v3.0/profiles/AS4-profile/v1.0/AS4-profile-v1.0.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**

Domibus has been found being used at the core of the Multilingual Anonymisation for Public Administrations (MAPA) project, which aims at introducing NLP tools and at developing a toolkit for effective and reliable anonymisation of text on the medical and legal fields.

MAPA project:

<https://mapa-project.eu/2022/01/>

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

Regulation (EU) 910/2014:

https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv%3AOJ.L_.2014.257.01.0073.01.ENG

Security

Data processing and exchange

*** A24 - 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.

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

Domibus enables secure data exchange through encryption, digital signatures, transport security, access control, authentication, authorization, message validation, and audit trails. It ensures data confidentiality, integrity, and controlled access during electronic message exchange.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

AS4 specification:

<http://docs.oasis-open.org/ebxml-msg/ebms/v3.0/profiles/AS4-profile/v1.0/AS4-profile-v1.0.html>

* **A25 - 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 Domibus is not related to the secure processing of data. Therefore this criterion is not applicable to the specification.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

AS4 specification:

<http://docs.oasis-open.org/ebxml-msg/ebms/v3.0/profiles/AS4-profile/v1.0/AS4-profile-v1.0.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**

The support for digital signatures that Domibus offers, which renders possible digitally signed messages, constitutes a mechanism to verify the authenticity and integrity of the data being transmitted.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

AS4 specification:

<http://docs.oasis-open.org/ebxml-msg/ebms/v3.0/profiles/AS4-profile/v1.0/AS4-profile-v1.0.html>

Data integrity

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

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.

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**

Domibus Adherence to AS4 standard guarantees that messages exchanged through Domibus can be digitally signed, providing a mechanism to verify the authenticity and integrity of the data being transmitted. This helps ensure that messages originate from legitimate sources and have not been altered during transmission. Digital signatures contribute to data authenticity and help prevent tampering or unauthorized modifications.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

AS4 specification:

<http://docs.oasis-open.org/ebxml-msg/ebms/v3.0/profiles/AS4-profile/v1.0/AS4-profile-v1.0.html>

Data accuracy

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

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 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

Domibus, as a messaging platform, focuses on ensuring the secure transmission of messages and documents. While it supports digital signatures that contribute to data authenticity and integrity, it doesn't inherently guarantee data accuracy beyond the scope of secure message exchange.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

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**

Adherence to AS4 standard guarantees Domibus provision of access control mechanisms that allow administrators to define and manage user roles, permissions, and access rights within the messaging platform. These mechanisms enable organizations to control who can access and perform specific actions within Domibus.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

AS4 specification:

<http://docs.oasis-open.org/ebxml-msg/ebms/v3.0/profiles/AS4-profile/v1.0/AS4-profile-v1.0.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**

Domibus supports the capability to configure and display user interfaces, messages, and notifications in different languages, thus, making it possible to use in a multilingual context.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

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 administrative simplification by for example helping an Identification service access a Digital Portfolio with citizens information.

- ☐ Not Answered
- ☐ Not Applicable
- ☐ NO
- ☒ YES

* Justification

In the context of secure electronic message exchange, Domibus can simplify the delivery of public services by providing a standardized platform for the transmission of electronic messages and documents between different entities, thus, streamlining communication and securing data exchange processes.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

* 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**

The integration of Domibus with the broader digital service ecosystem can lead to an improvement on the delivery of digital services related to messaging and data exchange, ensuring, seamless communication and data exchange between backend and user interfaces. While Domibus itself does not directly enable digital service delivery channels, it can play a role in supporting backend communication and data exchange between different components of a digital service delivery infrastructure. For example, it can be used to transmit messages related to service requests, notifications, or updates between different systems involved in the digital service delivery process.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

Preservation of Information

*** 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**

The purpose of Domibus is not related to the long-term preservation of information. Therefore, this criterion is not applicable to the specification.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

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

There has not been found any assessment addressing the effectiveness of Domibus implementations.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

* 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

There has not been found any assessment addressing the efficiency of Domibus implementations.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

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**

Domibus is already mapped in the EIRA Library of Interoperability Specifications. More specifically Domibus covers the "Enterprise Service Bus" ABB from the ELIS Technical Interoperability view.

ELIS in Joinup:

<https://joinup.ec.europa.eu/collection/common-assessment-method-standards-and-specifications-camss/solution/elis/release/v501>

*** 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**

Domibus is part of the CEF eDelivery solutions, which offer conformance testing services in order to verify conformance to the relevant eDelivery specifications upon which Domibus is built.

CEF eDelivery conformance testing services:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/eDelivery+Conformance+testing>

*** 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**

Domibus has not been found recommended by any European Member State.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

*** 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

Domibus is being implemented in the e-CODEX project, a multilateral, content agnostic, e-Delivery infrastructure that uses building blocks from previous large scale projects to develop a single pan-European interoperability layer to support cross-border e-Justice services.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

Domibus in e-CODEX:

<https://joinup.ec.europa.eu/release/domain-interopability-bus-domibus>

* **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

Domibus is primarily an open-source software solution for secure electronic message exchange, and it adheres to messaging standards such as the AS4 (Applicability Statement 4) profile of the ebMS (ebXML Messaging Service) standard. While it may not be listed in an official national catalogue or standards repository, it is widely recognized and used within the context of eGovernment initiatives and secure data exchange in Europe.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

AS4 Profile of ebMS 3.0:

<http://docs.oasis-open.org/ebxml-msg/ebms/v3.0/profiles/AS4-profile/v1.0/AS4-profile-v1.0.html>

* **A41 - 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
- ☐ NO
- ☒ YES

* Justification

Domibus can be found in the Joinup platform, as well as in the eDelivery building block of the European Commission-led Digital Europe website, where all the needed documentation for its implementation and study can be found.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

Digital Europe webpage:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Digital+Homepage>

Legal Interoperability

* **A42 - 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
- ☐ NO
- ☒ YES

* Justification

Domibus is not a European standard in the sense of being an official standardization document or specification issued by a recognized European standardization organization. However, it is treated as such given that it is an important component from the eDelivery building block. regarded as an eIDAS regulation enabler.

Digital Europe eDelivery:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/eDelivery>

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

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

Domibus can be integrated into the flow of business processes where secure communication and data exchange are required. Moreover, Domibus can perform data transformation as part of the message exchange process. It can help ensure that data exchanged between systems aligns with the requirements of the business processes involved.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

* 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

Domibus can somehow contribute to facilitating organisational interoperability agreements given that it provides a common and standardised tool for the communication and data exchange between different entities.

Domibus specification:

<https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>

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**

Implementations and some news regarding Domibus can be found in the Joinup platform, a European repository for IT solutions.

Domibus in Joinup:

https://joinup.ec.europa.eu/search?keys=domibus&sort_by=relevance&f%5B%5D=

Useful links

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

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

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

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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	Compliance Level				
	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 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
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EIF Interoperability Layers	0 to 200	201 to 400	401 to 600	601 to 800	801 to 1000
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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 3860

Maximum Score 4500




Section	Score for this Section	
EIF PRINCIPLES SETTING THE CONTEXT FOR EU ACTIONS ON INTEROPERABILITY	20/100	<div><div></div></div>
EIF CORE INTEROPERABILITY PRINCIPLES	1600 /1700	<div><div></div></div>
EIF PRINCIPLES RELATED TO GENERIC USER NEEDS AND EXPECTATIONS	1100 /1200	<div><div></div></div>
EIF FOUNDATION PRINCIPLES FOR COOPERATION AMONG PUBLIC ADMINISTRATIONS	340 /500	<div><div></div></div>
EIF INTEROPERABILITY LAYERS	800 /1000	<div><div></div></div>

Scores by Question

EIF PRINCIPLES SETTING THE CONTEXT FOR EU ACTIONS ON INTEROPERABILITY

Score for this Section: 20/100

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: 1600/1700


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 following a registration process.

80
out of
100
points




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

Your answer  All major and minor releases foresee a public review during which collected feedback is publicly visible.

100
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 and its Intellectual Property Right (IPR) policy or licence is aligned with Fair, Reasonable and Non-Discriminatory (F/RAND) principles.


100
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, in addition to having major releases available, has published documentation on its supporting processes (e.g. change management and release management).

100
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  Not Applicable


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 actively promotes and supports comprehensibility.


100
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 can contribute to the exposure of interfaces, but it is not its main purpose.

60
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 introduces certain aspects that can contribute to enabling data portability.


80
out of
100
points




EIF PRINCIPLES RELATED TO GENERIC USER NEEDS AND EXPECTATIONS

Score for this Section: 1100/1200


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

Your answer  Information is provided once-only and reused as needed.


100
out of
100
points



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

Your answer  The specification can contribute and promote e-accessibility, but it is not its main purpose.

60
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 explicitly addresses data protection and its alignment to relevant regulations.


100
out of
100
points



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

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


100
out of
100
points




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

Your answer  Yes, at European level.


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  Not Applicable


100
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  The specification explicitly addresses and enables the implementation of authenticity features.


100
out of
100
points




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

Your answer  The specification explicitly addresses and enables the implementation of features to guarantee data integrity.


100
out of
100
points




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

Your answer  The specification neither addresses data accuracy nor prevents it.


40
out of
100
points




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

Your answer  The specification explicitly foresees a set of requirements for the enabling of access control mechanisms.


100
out of
100
points



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

Your answer  The specification is designed to fully support multilingualism.

100
out of
100
points



EIF FOUNDATION PRINCIPLES FOR COOPERATION AMONG PUBLIC ADMINISTRATIONS Score for this Section: 340/500

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

Your  YES
answer

100
out of
100
points




A32 - Does the specification enable digital service delivery channels?

Your  YES
answer

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  Not Applicable
answer

100
out of
100
points




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

Your  There are no such assessments.
answer

20
out of
100
points



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

Your  There are no such assessments.
answer

20
out of
100
points



EIF INTEROPERABILITY LAYERS

Score for this Section: 800/1000


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

Your  YES
answer

100
out of
100
points



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

Your  The specification is complemented by a
answer conformance testing platform to allow testing of
implementations.

100
out of
100
points



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

Your  NO
answer

20
out of
100
points



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

Your  YES
answer

100
out of
100
points



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

Your  NO
answer

20
out of
100
points



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

Your  YES
answer

100
out of
100
points



A42 - Is the specification a European Standard?

Your  YES
answer

100
out of
100
points




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

Your  YES
answer

100
out of
100
points




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

Your  The specification defines certain elements to
answer 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

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