



# ASSESSMENT SUMMARY v1.0.0

GITB Test Description Language (TDL)<sup>1</sup>

European Commission (EC)<sup>2</sup>

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<sup>1</sup> <https://www.itb.ec.europa.eu/docs/tdl/latest/>

<sup>2</sup> <https://www.itb.ec.europa.eu/>

## Change Control

Modification		Details
Version 1.0.0		
Initial version		

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## 1. INTRODUCTION

The present document is a summary of the assessment of the GITB TDL carried out by CAMSS using the CAMSS Assessment EIF scenario<sup>3</sup>. The purpose of this scenario is assessing the compliance of a standard or specification with the European Interoperability Framework (EIF)<sup>4</sup>.

## 2. ASSESSMENT SUMMARY

The **GITB Test Description Language (TDL)** is a key element of the GITB specifications that is used to express how individual tests are defined in terms of involved actors and foreseen steps. The goal for GITB TDL is to provide test descriptions that are executable, i.e. ready to be processed by a testing engine capable of understanding GITB TDL, but also human readable. To achieve this, GITB TDL is based on XML, defining specific elements to match its foreseen testing constructs.

The GITB project represents a CEN standardisation initiative funded by the European Commission's DG GROW to provide the specifications for a generic interoperability test bed and their implementation in the form of the GITB test bed software. Following the initial work from the CEN GITB workgroup, the maintenance and evolution of GITB TDL has been taken over by the European Commission, specifically the Interoperability Test Bed Team of DIGIT D.2. DIGIT D.2 foresees the maintenance of the GITB software and specification based on the needs of the testing community and carries out evolutive maintenance with regular releases.

### 2.1. EIF Interoperability Principles

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

***The specification does not support the principles setting context for EU actions on interoperability:***

- **Subsidiarity and proportionality**

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

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

- **Openness**

GITB TDL is a specification that provides a set of expressions needed to run interoperability and conformance testing, therefore, the specification is not related to the publication of open data. Nonetheless, the development process has been carried out by the Interoperability test bed team,

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<sup>3</sup> [https://ec.europa.eu/eusurvey/runner/EIFScenario\\_v500](https://ec.europa.eu/eusurvey/runner/EIFScenario_v500)

<sup>4</sup> [https://ec.europa.eu/isa2/eif\\_en](https://ec.europa.eu/isa2/eif_en)

and it is publicly available for its use and review in the Joinup<sup>5</sup> platform. Moreover, Joinup's interoperability test bed team is the developer community that maintains this specification and gives support on its implementation. GITB TDL is licensed under the royalty-free basis for its implementation or study.

- **Transparency**

GITB TDL is a language created to run interoperability and conformance tests. Therefore, the specification does not foster transparency given that its purpose is other than ensuring visibility or providing external interfaces for European public services.

- **Reusability**

The GITB TDL is publicly available for its use for free at Joinup. Additionally, even though it was developed under the scope of the European Commission DIGIT D.2, GITB TDL expressions are designed to support a large number of testing constructs and can be reused and adapted to fit business-specific contexts. Nonetheless, this specification cannot be found in any national or European repository or catalogue.

- **Technological neutrality and data portability**

GITB TDL supports technological neutrality by allowing for partial implementations and can be customised for domain-specific needs. Moreover, GITB TDL can also be processed by any test bed implementations that conforms to the GITB specifications, making this specification platform-agnostic. However, GITB TDL is strictly related to test bed implementations and does not address data portability issues.

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

- **User-centricity**

The specification is focused on interoperability and conformance testing. Therefore, it is not related on the implementation of the OOP.

- **Inclusion and accessibility**

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

- **Security and privacy**

GITB TDL provides a framework for testing the efficient and secure exchange of information.

- **Multilingualism**

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<sup>5</sup> <https://joinup.ec.europa.eu/collection/interoperability-test-bed-repository/solution/interoperability-test-bed/about>

The purpose of GITB TDL is not related to the delivery of multilingual European Public Services. Therefore, this criterion is considered not applicable to this specification.

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

- **Administrative Simplification**  
GITB TDL simplifies the delivery of European Public Services by contributing to the adoption of a multi-channel delivery approach.
- **Preservation of information**  
The purpose of the GITB TDL is not related to long term preservation of electronic record. Therefore, this criterion is considered not applicable to this specification.
- **Assessment of effectiveness and efficiency**  
After researched whether exist studies or documentation assessing the efficiency and effectiveness, any study or documentation has been found assessing the specification in terms of effectiveness and efficiency.

## **2.2. EIF Interoperability Layers**

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

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

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

- **Interoperability governance**  
GITB TDL can be mapped with EIRA ABBs in the EIRA Library of Interoperability Specifications (ELIS). More specifically, GITB TDL can define the interoperability aspects of the Human Interface ABB of the EIRA Technical View. Nonetheless, it does not appear in any catalogue either on national or European level. In terms of implementation conformity, there is no available validation tool provided.
- **Legal Interoperability**  
After checking the different standard catalogues at supra-national level, there is no evidence of GITB TDL as a European standard nor any relevant regulations at a European level focusing on this specification.
- **Organisational interoperability**

Although the purpose of GITB TDL is not explicitly made to facilitate business processes, it promotes the adoption of common validation syntax within multiple services testbed APIS, therefore, partially supporting organizational interoperability's process.

- **Semantic Interoperability**

GITB TDL is available for its use and implementation on Joinup, the collaborative platform created by the European Commission for its use and implementation. In addition, The GITB infrastructure has the Test Registry and Repository<sup>6</sup> (TRR) component. The TRR is aimed at supporting the GITB infrastructure for managing, archiving and sharing distributed Testing Resources.

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<sup>6</sup> [https://joinup.ec.europa.eu/sites/default/files/document/2015-11/gitb\\_trr\\_user\\_guide\\_v01.pdf](https://joinup.ec.europa.eu/sites/default/files/document/2015-11/gitb_trr_user_guide_v01.pdf)

### 3. ASSESSMENT RESULTS

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

Category	Automated Score	Assessment Strength	Compliance Level
Principle setting the context for EU actions on interoperability	20/100	100%	Ad-hoc
Core interoperability principles	1820/2100	67%	Seamless
Principles related to generic user needs and expectations	500/500	60%	Seamless
Foundation principles for cooperation among public administrations	340/500	60%	Sustainable
Interoperability layers*	540/1100	55%	Essential
Overall Score	3220/4300	63%	

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

With a 63% of assessment strength, this assessment can be considered partially representative of the specification compliance with the EIF principles and recommendations.

The Overall Automated Score of 74,88% (3220/4300) demonstrates that the specification supports the European Interoperability Framework in the domains where it applies.