

What is the Test Bed?



Interoperability
Test Bed

An online, intuitive and self-service platform for conformance testing of IT systems against semantic and technical specifications



Powered by DIGIT



Standards based (GITB CWA)



What can it be used for?



GOALS

Test specification conformance
Validate data and quality control
Simulate APIs and protocols
Verify message exchanges

CONFORMANCE TESTING



APPROACH

Self-service usage
Rich reporting of test results
Progress overview and monitoring
Conformance certificates

INTEROPERABILITY TESTING



Key services



VALIDATORS

Used for data validation
Anonymous and stateless
Multiple input channels
Various reporting outputs
Configuration-driven



CONFORMANCE TEST BED

Used for **conformance testing**

Account-based access

Scenario-based test cases

Rich monitoring and reporting

Extensible capabilities



Flexible usage models



Use as services
Shared cloud-based instances
Hosted and operated by DIGIT
User-managed configuration
Distinct setup per project

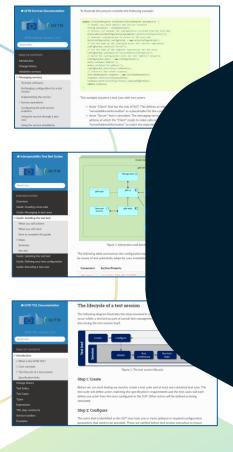


INSTALL ON-PREMISE

Use as <u>components</u>
Public Docker images
Hosted and operated by users
Allows internal integrations
Allows access restrictions



User support





RICH DOCUMENTATION

User and developer guides
Step-by-step tutorials
News and release notes
Al assistant



DEVELOPMENT SUPPORT

Backlog prioritised on feedback

Direct support channel

Regular releases

Nightly builds





Validator syntax support

ITB
RDF validator

Validate RDF data
with SHACL shapes

Validate XML data
with XSDs and
Schematron

Validate **CSV** data with <u>Table Schema</u>

ITB

CSV validator

Validata ICON da

ITB

JSON validator

Validate **JSON** data with <u>JSON Schema</u>

Available as DIGIT services

See the RDF, XML, CSV, JSON guides

Available on Docker Hub

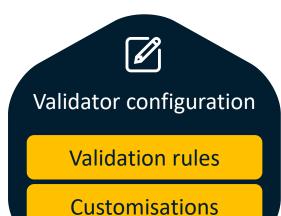
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See the RDF, XML, CSV, JSON images

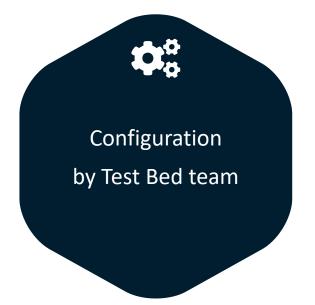


Validator setup as DIGIT service

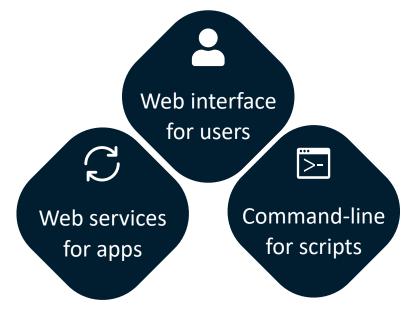
STEP 1Define configuration



Step 2
Share configuration



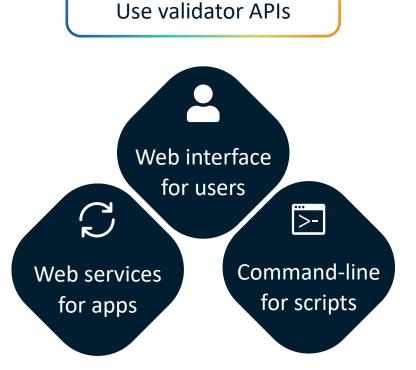
STEP 3Use validator APIs





Validator setup on-premise

STEP 1 STEP 2 Define configuration Create validator Validator configuration Base validator image Validator configuration Validation rules **Environment settings** Customisations



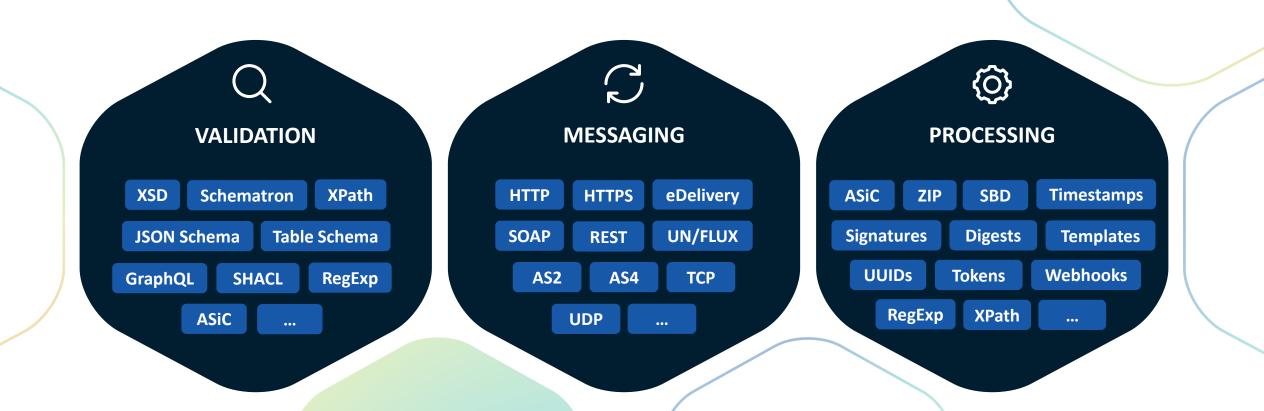
STEP 3



Validator demo Validation of an electronic invoice using the elnvoicing validator

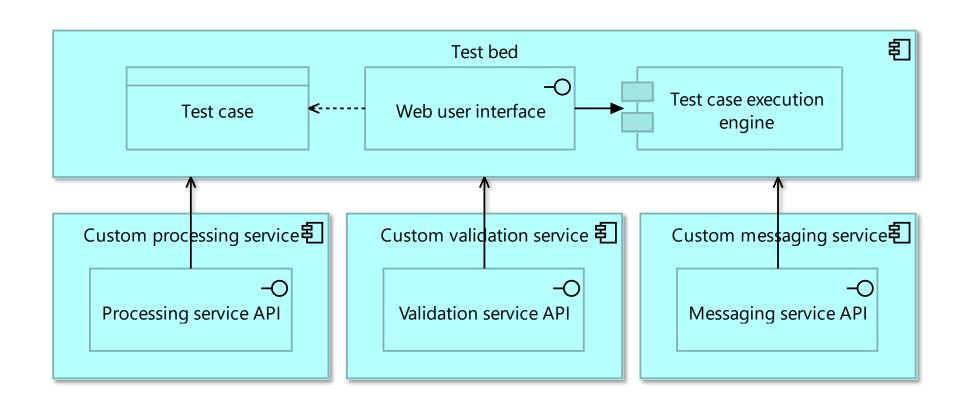
Conformance Test Bed

Conformance testing capabilities



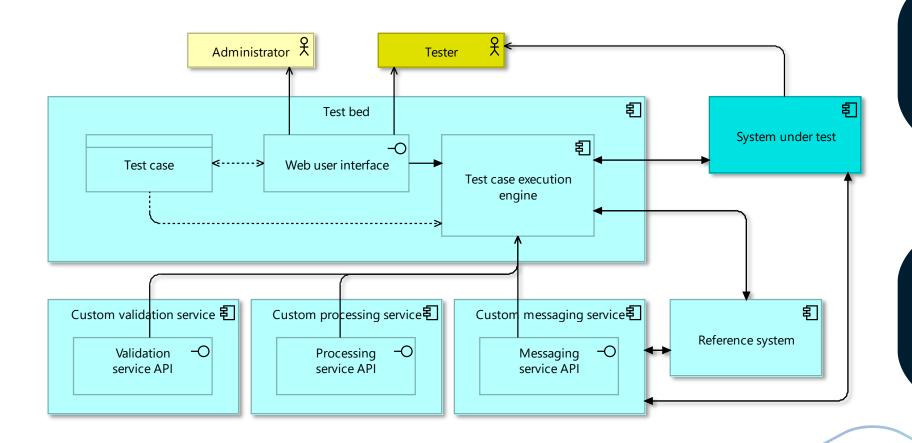


Custom capability extensions





Conformance testing overview





ADMINISTRATOR

Configure tests

Monitor progress

Manage users

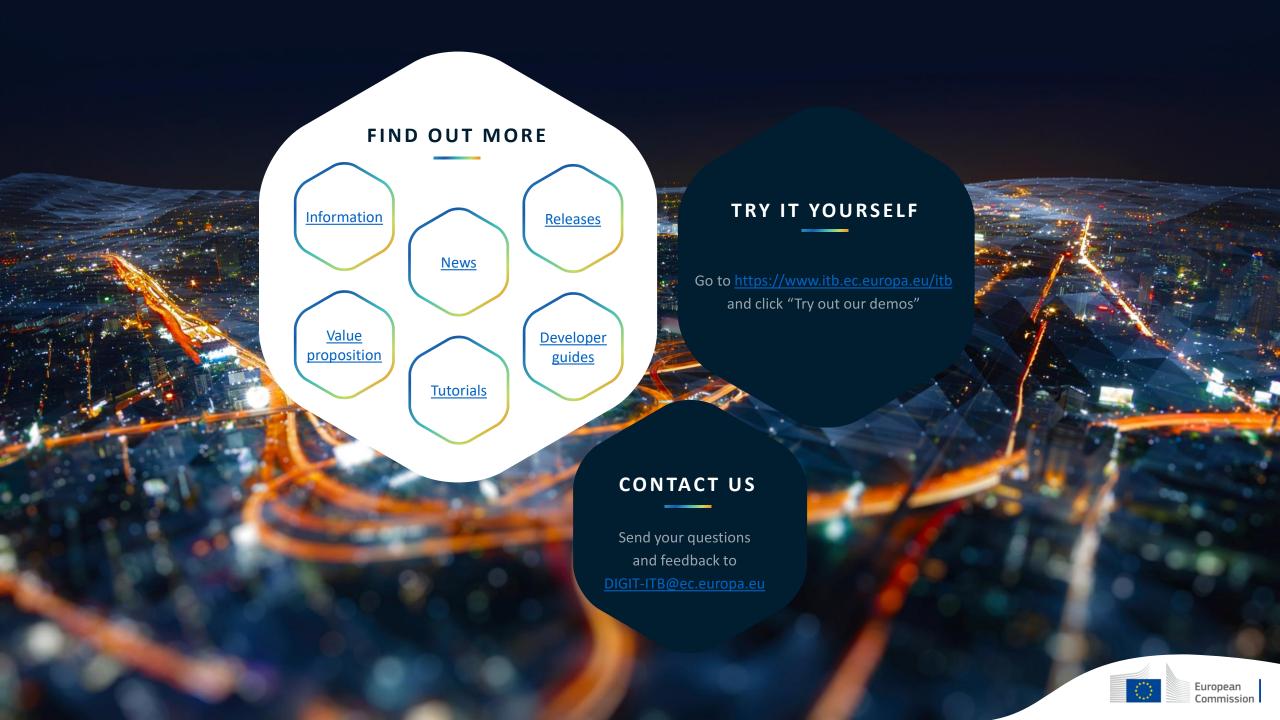


TESTER

Manage organisation
Execute tests
Review results



Test Bed demo Test execution, reporting and monitoring for testers and administrators





interoperable europe

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https://interoperable-europe.ec.europa.eu/



Interoperable Europe - YouTube



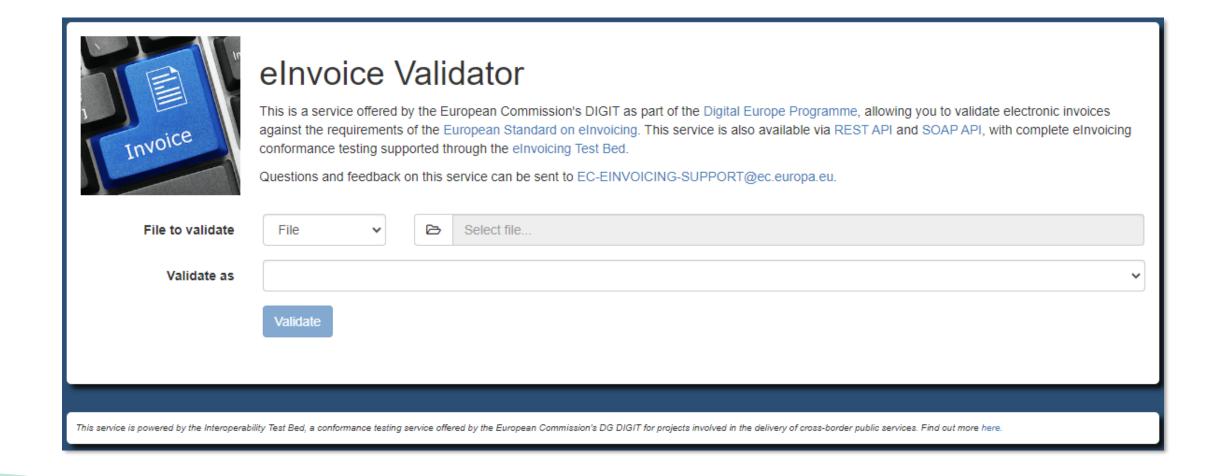
<u>EU-Interoperable-Europe@ec.europa.eu</u>



Newsletter subscription

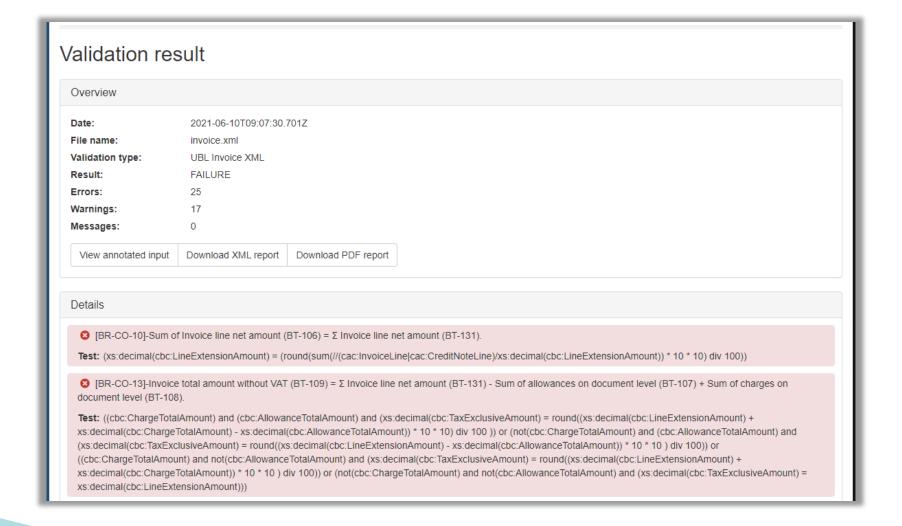


Validator input



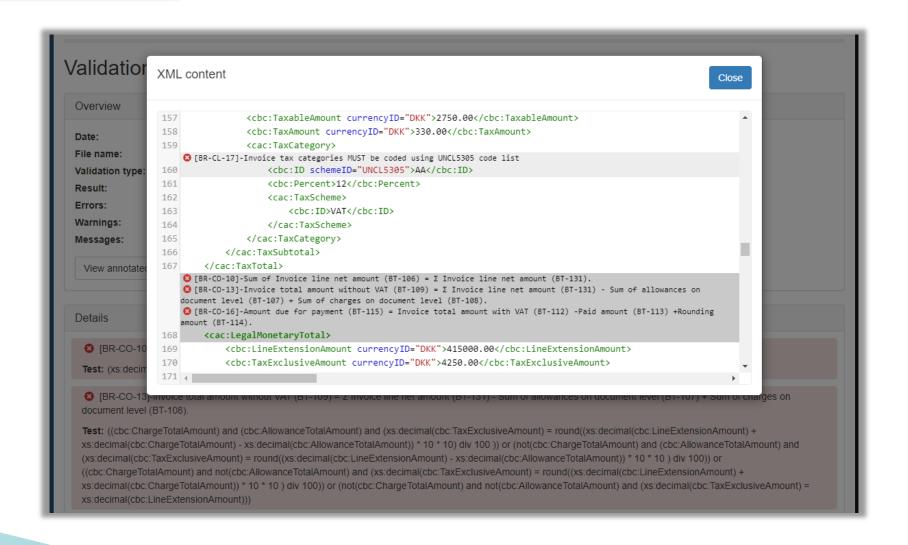


Validator result overview

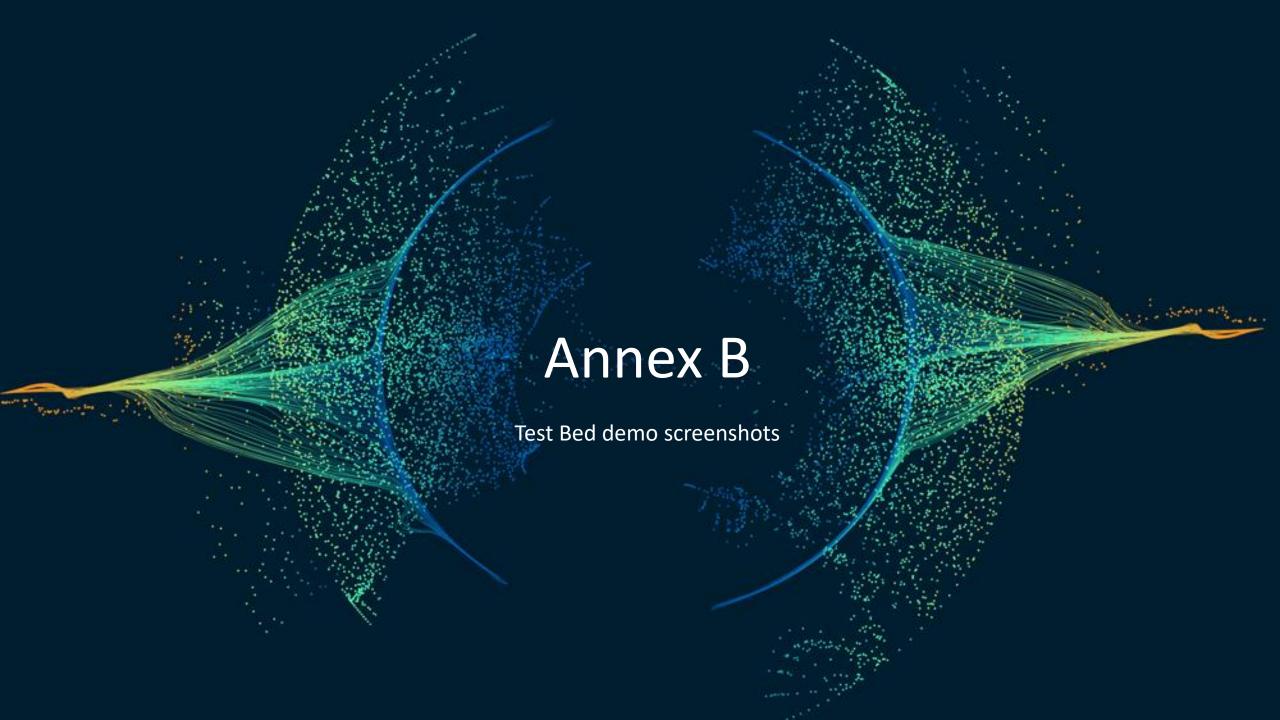




Validator result details







Welcome page



Welcome to the Interoperability Test Bed

The Interoperability Test Bed is a platform for self-service conformance testing against semantic and technical specifications.

Click to log in

Assigned a new role by an administrator? Confirm your new role.

New to the Test Bed? Register in a public community or try out our demos.

To connect to the Test Bed you need to first authenticate using your EU Login account. If you are new to EU Login follow this tutorial to get started.

Privacy note: By connecting you consent to the use of cookies to manage your session. Please refer to our <u>legal notice</u> for more information.

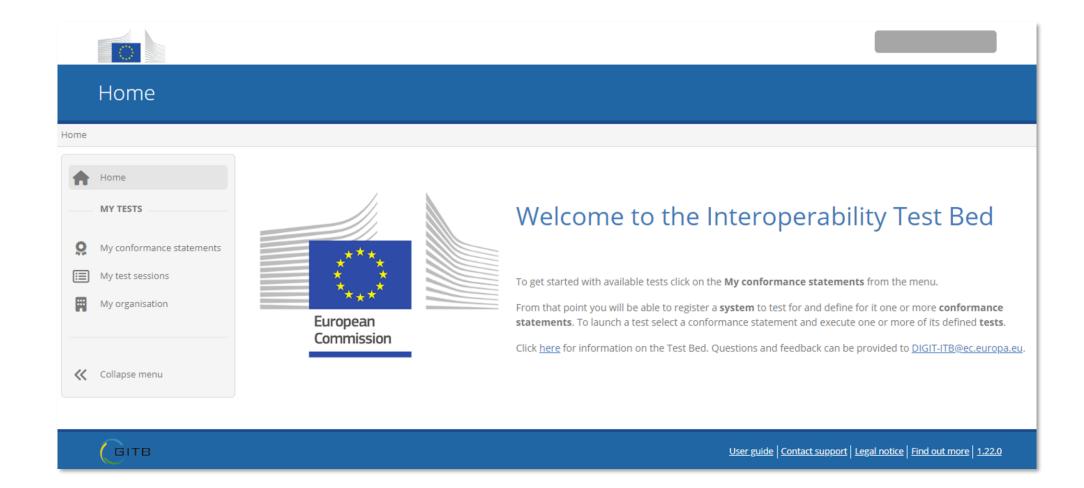
Migration note: If you have been using a functional account to log in click <u>here</u> to migrate it to EU Login. Step-by-step instructions are available in <u>this guide</u>.



User guide | Legal notice | Find out more | 1.22.0

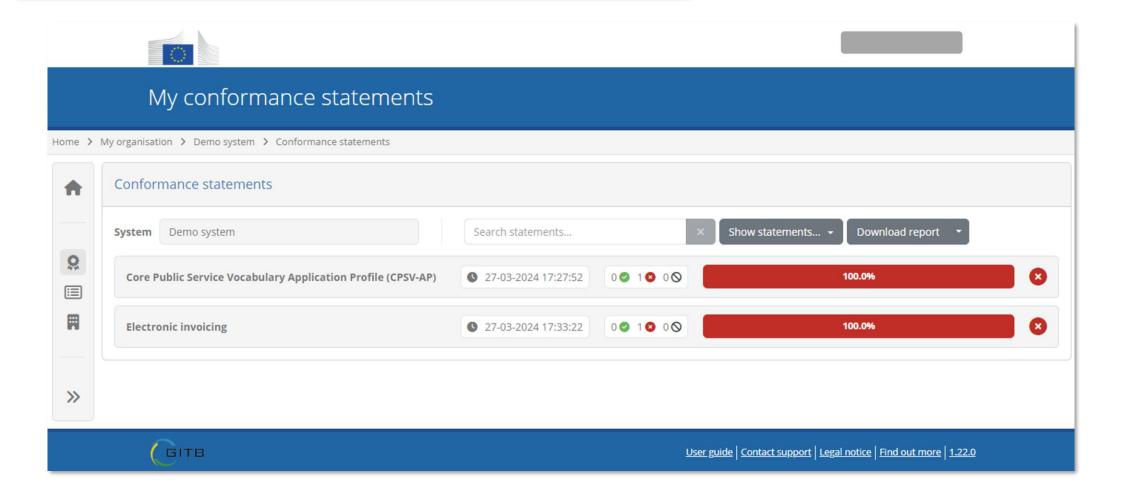


Home page



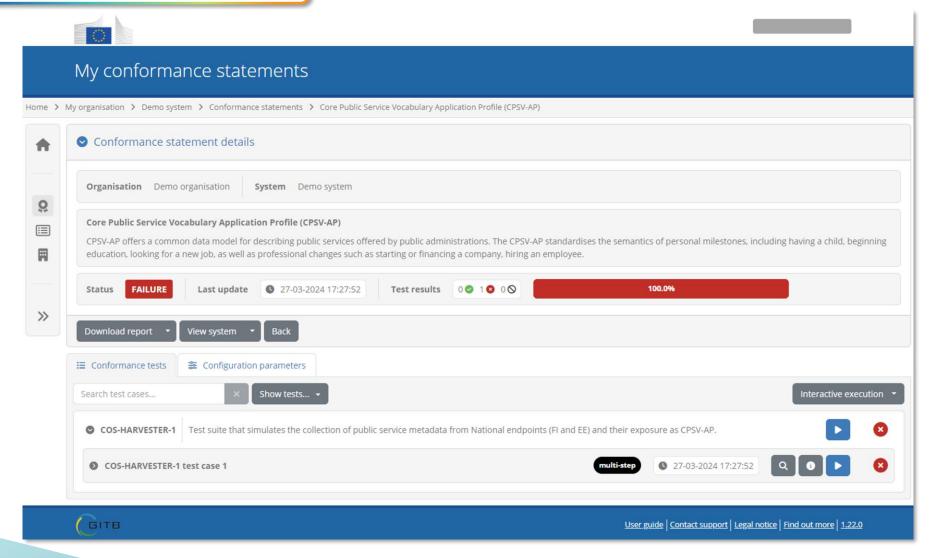


List of conformance statements (specifications to test for)



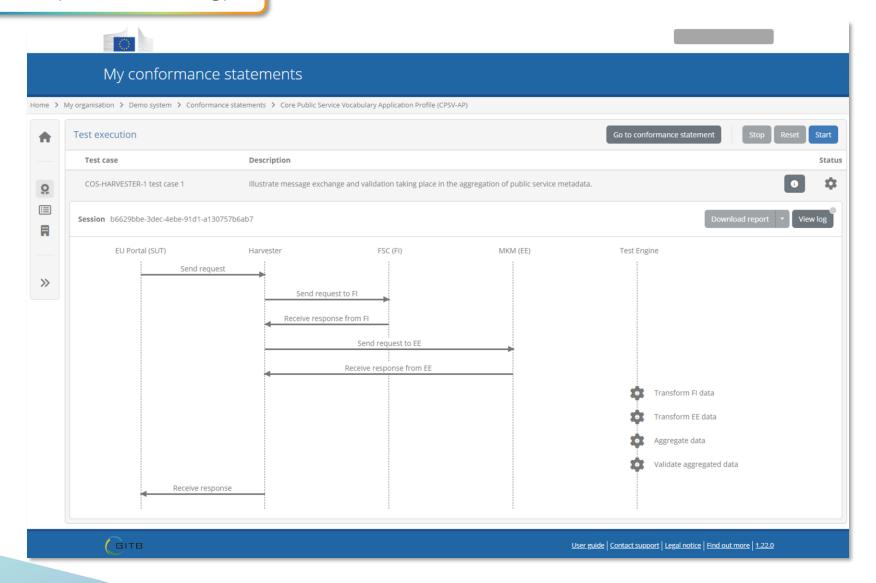


Conformance statement details



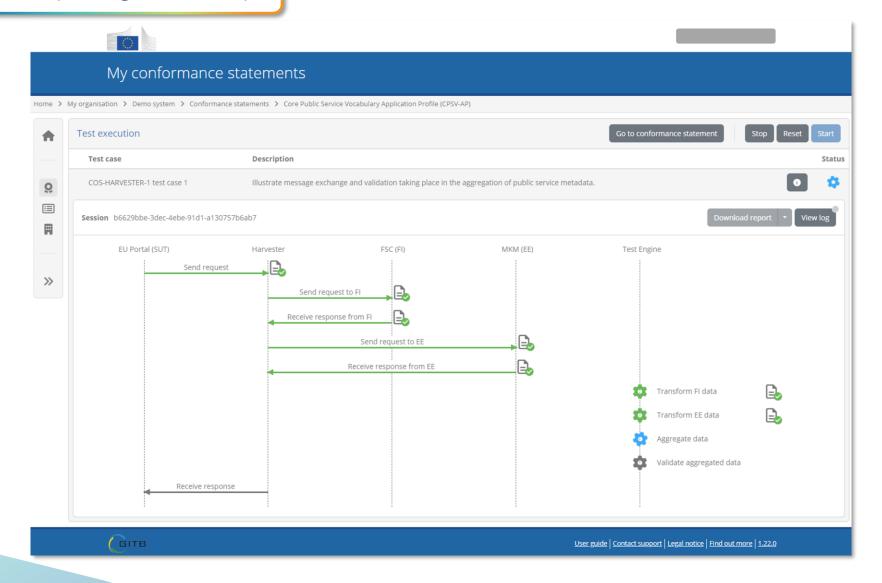


Test session (before starting)



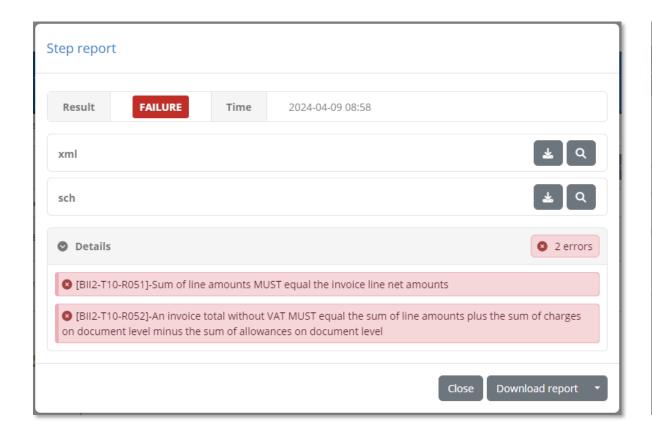


Test session (during execution)





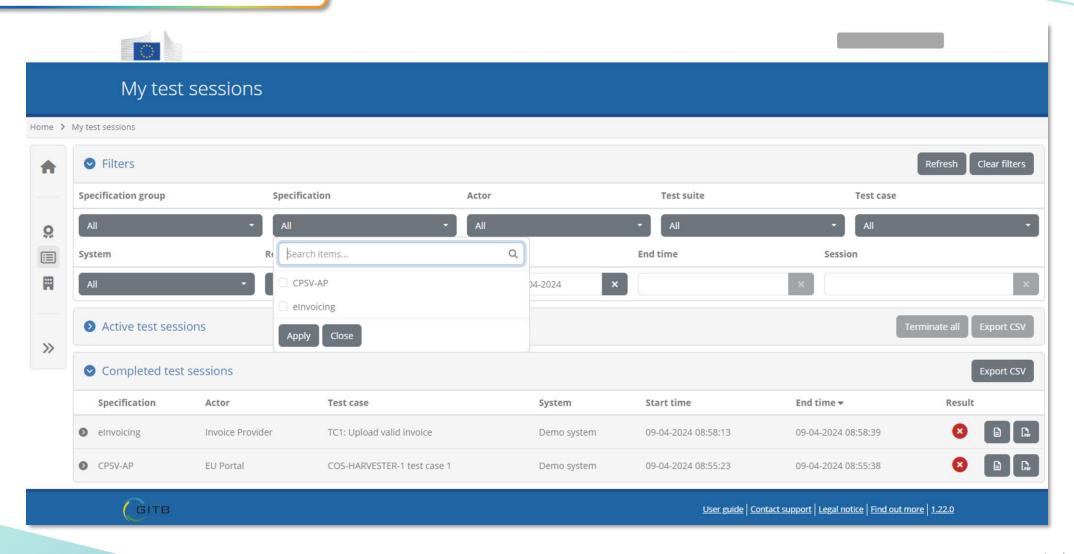
Validation error details



```
xml
162
              <cbc:TaxAmount currencyID="DKK">330.00</cbc:TaxAmount>
163
              <cac:TaxCategory>
164
                 <cbc:ID schemeID="UNCL5305">AA</cbc:ID>
165
                 <cbc:Percent>12</cbc:Percent>
166
                 <cac:TaxScheme>
167
                    <cbc:ID>VAT</cbc:ID>
168
                 </cac:TaxScheme>
169
              </cac:TaxCategory>
170
           </cac:TaxSubtotal>
171
       </cac:TaxTotal>
     [BII2-T10-R051]-Sum of line amounts MUST equal the invoice line net amounts
     [BII2-T10-R052]-An invoice total without VAT MUST equal the sum of line amounts plus the sum of
    charges on document level minus the sum of allowances on document level
       <cac:LegalMonetaryTotal>
173
           <cbc:LineExtensionAmount currencyID="DKK">415000.00</cbc:LineExtensionAmount>
174
           <cbc:TaxExclusiveAmount currencyID="DKK">4250.00</cbc:TaxExclusiveAmount>
          <cbc:TaxInclusiveAmount currencyID="DKK">4956.00</cbc:TaxInclusiveAmount>
176
          <cbc:ChargeTotalAmount currencyID="DKK">100.00</cbc:ChargeTotalAmount>
          <cbc:PayableRoundingAmount currencyID="DKK">1.00</cbc:PayableRoundingAmount>
177
178
           <cbc:PayableAmount currencyID="DKK">4956.00</cbc:PayableAmount>
        </cac:LegalMonetaryTotal>
180
        <cac:InvoiceLine>
           <chc:InvoicedOuantity unitCode="C62" unitCodelistID="UNFCFRec20">1000/chc:InvoicedOual
                                                                                    Copy to clipboard
```



Overview of executed tests





Conformance dashboard (administrator)

