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Common Information sharing environment service and Data Model (CDM);

Validation of the Test Suite

**Technical Specification**

Reference

DGR/CDM-0016

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# Foreword

This Group Report (GR) has been produced by ETSI Industry Specification Group (ISG) Common Information sharing environment service and Data Model (CDM).

The present document is about the validation of the Test Suite developed by ETSI and presented in the CDM-007 multi-part standard.

# Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](https://portal.etsi.org/Services/editHelp!/Howtostart/ETSIDraftingRules.aspx) (Verbal forms for the expression of provisions).

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# 1 Scope

The present document includes the outcome of a first Testing Campaign implemented to validate the ETSI CDM Test Suite against a reference CISE node carried on the ETSI CDM Testing Platform.

# 2 References

## 2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non‑specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

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The following referenced documents are necessary for the application of the present document.

[1] ETSI GS CDM 004: "Common Information sharing environment service and Data Model (CDM); Service Model".

[2] ETSI GS CDM 005: "Common Information sharing environment service and Data Model (CDM); Data Model".

[3] ETSI GS CDM 007-1: "Common Information sharing environment service and Data Model (CDM); Testing; Conformance test specifications for CISE; Part 1: Test requirements and Protocol Implementation Conformance Statement (PICS) proforma".

[4] ETSI GS CDM 007-2: "Common Information sharing environment service and Data Model (CDM); Testing; Conformance test specifications for CISE; Part 2: Test Suite Structure and Test Purposes (TSS & TP)".

[5] ETSI GS CDM 007-3: "Common Information sharing environment service and Data Model (CDM); Testing; Conformance test specifications for CISE; Part 3: Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT)".

## 2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non‑specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

[i.1] ETSI EG 202 798: "Intelligent Transport Systems (ITS); Testing; Framework for conformance and interoperability testing".

[i.2] ISO/IEC 9646-1 (1994): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".

[i.3] ISO/IEC 9646-2 (1994): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract Test Suite specification".

[i.4] ISO/IEC 9646-6 (1994): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 6: Protocol profile test specification".

[i.5] ISO/IEC 9646-7 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

[i.6] ETSI ETS 300 406 (1995): "Methods for testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

[i.7] OpenSSL Project Toolkit Library V1.0.1j.

NOTE: Available at [www.openssl.org](http://www.openssl.org).

[i.8] ETSI ES 201 873-1: "Methods for Testing and Specification (MTS); The Testing and Test Control Notation version 3; Part 1: TTCN-3 Core Language".

# 3 Definition of terms, symbols and abbreviations

## 3.1 Terms

For the purposes of the present document, the terms given in ETSI GS CDM 004, ETSI GS CDM 005, ETSI TS 102 965 [**Error! Reference source not found.**], ISO/IEC 9646‑6 [i.3] and ISO/IEC 9646‑7 [i.4] apply.

## 3.2 Symbols

Void

## 3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

ATM Abstract Test Method

ATS Abstract Test Suite

BV Valid Behaviour tests

CDM Common Data Management

CISE Common Information Sharing Environment

EN European Norm

ES ETSI Standard

HTML HyperText Markup Language

HTTP Hypertext Transfer Protocol

IUT Implementation Under Test

PCTR Protocol Conformance Testing Report

PICS Protocol Implementation Conformance Statement

PIXIT Partial Protocol Implementation eXtra Information for Testing

PX PiXit

SUT System Under Test

TC Test Case

TP Test Purpose

TR Technical Report

TS Test System

TSS Test Suite Structure

TTCN Testing and Test Control Notation

UT Upper Tester

XML eXtensible Markup Language

# 4 Test Setup

## 4.1 Introduction

This clause describes how the SUT and the Test System have been configured to undertake the conformance test specificied for CISE in [4].

## 4.2 Abstract protocol tester

The abstract protocol tester used by the test suite is described in figure 1. The Test System simulates valid and invalid protocol behaviour and analyses the reaction of the IUT.

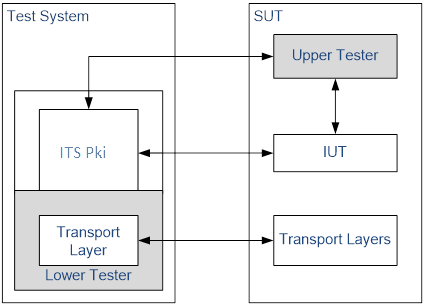


Figure 1: Abstract protocol tester – CISE ATS

## 4.3 Test Configuration

### 4.3.1 Introduction

This test suite uses three test configurations as defined in clauses below.

### 4.3.2 Config\_CISE\_1

The CISE node is acting as the IUT. This configuration is used to test the interface between the CISE node and the CISE Adaptor.

**TS**

**IUT**

**EI NA**

**CISE Node**

**Adapter**

Figure 2: Config\_CISE\_1 to validate interface between IUT and the CISE Adaptor

### 4.3.3 Config\_CISE\_2

The CISE node is acting as the IUT. This configuration is used to test the interface between the CISE node and the CISE Network.

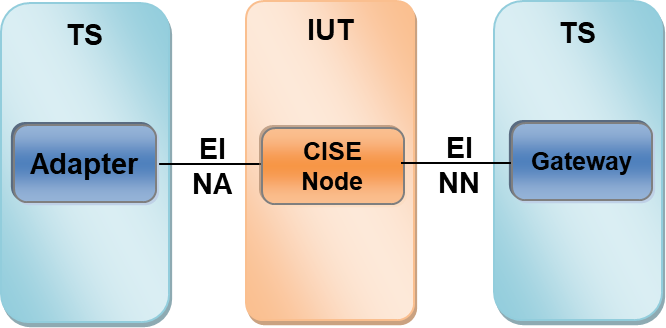


Figure 3: Config\_CISE\_2 to validate interface between IUT and the CISE Network

### 4.3.4 Config\_CISE\_3

The CISE Adaptor is acting as the IUT. This configuration is used to test the interface between the CISE Adaptor and the CISE node.

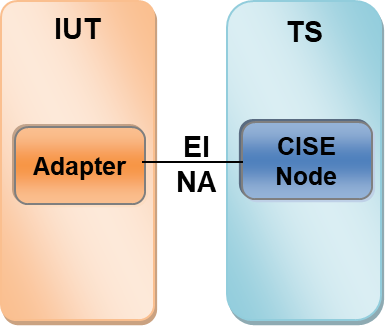


Figure 4: Config\_CISE\_3 to validate interface between IUT and the CISE Node

# 5. Implemented Tests

# 5.1 Test Suite Reference

The tests are based on PIXIT ISO/IEC 9646‑6 [i.3] pro forma and are described in CDM 007-3 [5].

## 5.2 Identification summary

The Identification summary shall be as specified in table 5.1.

Table 5.1: Identification summary

|  |  |
| --- | --- |
| PIXIT Number: |  |
| Test Laboratory Name: |  |
| Date of Issue: |  |
| Issued to: |  |

## 5.3 ATS summary

The ATS summary are specified in table B.2.

Table 5.2: ATS summary

|  |  |
| --- | --- |
| Protocol Specification: | ETSI GS CDM 004, ETSI GS CDM 005 |
| Protocol to be tested: | CDM protocol |
| ATS Specification: | ETSI GS CDM 004, ETSI GS CDM 005 |
| Abstract Test Method: | Clause 4 |

## 5.4 Test laboratory

The Test laboratory is specified as in table 5.3.

Table 5.3: Test laboratory info

|  |  |
| --- | --- |
| Test Laboratory Identification: |  |
| Test Laboratory Manager: |  |
| Means of Testing: |  |
| SAP Address: |  |

## 5.5 SUT

SUT shall be specified as in table 5.4.

Table B.6: SUT

|  |  |
| --- | --- |
| Name: |  |
| Version: |  |
| SCS Number: |  |
| Machine configuration: |  |
| Operating System Identification: |  |
| IUT Identification: |  |
| PICS Reference for IUT: |  |
| Limitations of the SUT: |  |
| Environmental Conditions: |  |

## 5.6 Protocol layer information

## 5.6.1 Protocol identification

Protocol identification shall be as specified in table B.6.

Table B.6: Protocol identification

|  |  |
| --- | --- |
| Name: | CDM protocols ETSI GS CDM 004 and ETSI GS CDM 005 |
| Version: |  |
| PICS References: | ETSI GS CDM 007-2 |

## 5.7 IUT information

CISE ATS PIXITs are listed in table B.7.

Table B.7.1: Relevant general PIXITs

| Identifier | Description | |
| --- | --- | --- |
| PX\_SECURITY\_SIGN\_HASH\_ALG | Comment | Indicate the signature hash algorithm |
| **Type** | HashAlgorithm |
| **Def. value** | e\_sha1 |
| PX\_CISE\_REQUEST\_ACK | **Comment** | Set to true if asynchronous acknowledgment messages are expected |
| **Type** | boolean |
| **Def. value** | true |
| PX\_CISE\_SENDER\_SERVICE\_ID | **Comment** | Sender service (consumer) |
| **Type** | charstring |
| **Def. value** |  |
| PX\_CISE\_UNKNOWN\_SENDER\_SERVICE\_ID | **Comment** | Unknown sender service (consumer) |
| **Type** | charstring |
| **Def. value** |  |
| PX\_CISE\_RECIPIENT\_SERVICE\_ID | **Comment** | Recipient service (provider) |
| **Type** | charstring |
| **Def. value** |  |
| PX\_CISE\_UNKNOWN\_RECIPIENT\_SERVICE\_ID | **Comment** | Unknown recipient service (provider) |
| **Type** | charstring |
| **Def. value** |  |
| PX\_CISE\_DISCOVERY\_PROFILE\_SERVICE\_ID | Comment | Discovery profile service |
| **Type** | charstring |
| **Def. value** |  |
| PX\_COUNTRY\_TYPE | Comment | Country identifier |
| **Type** | CountryType |
| **Def. value** | fR |
| PX\_DATA\_FRESHNESS\_TYPE | Comment | Data freshness |
| **Type** | DataFreshnessType |
| **Def. value** | realTime |
| PX\_CISE\_SEA\_BASSIN | Comment | Sea basin for discovery |
| **Type** | charstring |
| **Def. value** | northSea |
| PX\_CISE\_CONSUMER | **Comment** | Knwon vessel IMO number |
| **Type** | ServiceRoleType |
| **Def. value** | consumer |
| PX\_CISE\_PROVIDER | **Comment** | Unknwon vessel IMO number |
| **Type** | ServiceRoleType |
| **Def. value** | provider |
| PX\_SUBSCRIPTION\_REFRESH\_RATE | **Comment** | Subscription data refresh rate |
| **Type** | Duration |
| **Def. value** | P0Y0M0DT0H1M0S |

Table B.7.2: Vessel specific PIXITs

| Identifier | Description | |
| --- | --- | --- |
| PX\_VESSEL\_IMO\_NUMBER | **Comment** | Knwon vessel IMO number |
| **Type** | integer |
| **Def. value** |  |
| PX\_VESSEL\_UNKNOWN\_IMO\_NUMBER | **Comment** | Unknwon vessel IMO number |
| **Type** | integer |
| **Def. value** |  |
| PX\_VESSEL\_DATA\_FRESHNESS\_TYPE | Comment | Data freshness |
| **Type** | DataFreshnessType |
| **Def. value** | realTime |
| PX\_VESSEL\_POS\_LATITUDE | **Comment** | Vessel position |
| **Type** | charstring |
| **Def. value** | 81.0 |
| PX\_VESSEL\_POS\_LONGITUDE | Comment | Vessel position |
| **Type** | charstring |
| **Def. value** | 171.0 |
| PX\_VESSEL\_INVALID\_POS\_LATITUDE | **Comment** | Invalid vessel position |
| **Type** | charstring |
| **Def. value** | 171.0 |
| PX\_VESSEL\_INVALID\_POS\_LONGITUDE | Comment | Vessel position |
| **Type** | charstring |
| **Def. value** | 81.0 |
| PX\_VESSEL\_TYPE | **Comment** | Vessel type |
| **Type** | VesselType |
| **Def. value** | fishingVessel |
| PX\_VESSEL\_NET\_TONNAGE | **Comment** | Vessel net tonnage, used for payload selector filters |
| **Type** | float |
| **Def. value** |  |
| PX\_PAYLOAD\_SELECTOR\_CONDITION\_1 | **Comment** | Agent UUID |
| **Type** | charstring |
| **Def. value** | //Vessel[1]/NetTonnage |
| PX\_PAYLOAD\_SELECTOR\_CONDITION\_2 | **Comment** | Agent UUID |
| **Type** | charstring |
| **Def. value** | //Vessel[1]/MaximumSpeed |

Table B.7.3: Agent specific PIXITs

| Identifier | Description | |
| --- | --- | --- |
| PX\_AGENT\_UUID | **Comment** | Agent UUID |
| **Type** | charstring |
| **Def. value** | 787aa3e9b91b-5bc2-0cf5-80a8-183a716b8d59 |
| PX\_AGENT\_AGENT\_ROLE | **Comment** | Unknwon vessel IMO number |
| **Type** | AgentRoleInEventType |
| **Def. value** | nonSpecified |
| PX\_AGENT\_CONTACT | Comment | Agent contact point |
| **Type** | charstring |
| **Def. value** | BEGIN:VCARD&#13;\nVERSION:3.0&#13;\nPRODID:ez-vcard 0.10.5&#13;\nFN:AgentPerson&#13;\nEMAIL:Person@Person&#13;\nTEL:321234&#13;\nEND:VCARD&#13; |

Table B.7.4: Organization specific PIXITs

| Identifier | Description | |
| --- | --- | --- |
| PX\_ORGANIZATION\_LEGAL\_NAME | **Comment** | Organization legal name |
| **Type** | charstring |
| **Def. value** | A1 |
| PX\_INVALID\_ORGANIZATION\_LEGAL\_NAME | **Comment** | Unknwon organization legal name |
| **Type** | Charstring |
| **Def. value** | CAFEDECA |
| PX\_ORGANIZATION\_UUID | **Comment** | Organization UUID |
| **Type** | charstring |
| **Def. value** | 787aa3e9b91b-5bc2-0cf5-80a8-183a716b8d59 |
| PX\_ORGANIZATION\_COUNTRY | Comment | Data freshness |
| **Type** | charstring |
| **Def. value** | FR |
| PX\_ORGANIZATION\_CONTACT | Comment | Organization contact point |
| **Type** | charstring |
| **Def. value** | BEGIN:VCARD&#13;\nVERSION:3.0&#13;\nPRODID:ez-vcard 0.10.5&#13;\nFN:AgentPerson&#13;\nEMAIL:Person@Person&#13;\nTEL:321234&#13;\nEND:VCARD&#13; |

Table B.7.5: Action specific PIXITs

| Identifier | Description | |
| --- | --- | --- |
| PX\_ACTION\_UUID | **Comment** | Action UUID |
| **Type** | charstring |
| **Def. value** | 787aa3e9b91b-5bc2-0cf5-80a8-183a716b8d59 |
| PX\_ACTION\_NATURE\_TYPE | **Comment** | Nature of the action |
| **Type** | NatureType |
| **Def. value** | observed |
| PX\_ACTION\_ACTION\_STATUS | **Comment** | Action status |
| **Type** | ActionStatus |
| **Def. value** | nonSpecified |
| PX\_ACTION\_MISSION | Comment | Data freshness |
| **Type** | charstring |
| **Def. value** | FR |
| PX\_ACTION\_PRIORITY | Comment | Action priority |
| **Type** | ActionPriorityType |
| **Def. value** | High |

Table B.7.6: Anomaly specific PIXITs

| Identifier | Description | |
| --- | --- | --- |
| PX\_ANOMALY\_UUID | **Comment** | Anomaly UUID |
| **Type** | charstring |
| **Def. value** | 787aa3e9b91b-5bc2-0cf5-80a8-183a716b8d59 |
| PX\_ANOMALY\_NATURE\_TYPE | **Comment** | Nature of the anomaly |
| **Type** | NatureType |
| **Def. value** | observed |
| PX\_ANOMALY\_TYPE | **Comment** | Type of the anomaly |
| **Type** | AnomalyType |
| **Def. value** | nonSpecified |

Table B.7.7: Period specific PIXITs

| Identifier | Description | |
| --- | --- | --- |
| PX\_PERIOD\_START\_DATE | **Comment** | Period starting date |
| **Type** | Date |
| **Def. value** |  |
| PX\_PERIOD\_END\_DATE | **Comment** | Period ending date |
| **Type** | Date |
| **Def. value** |  |

Table B.7.8: Document specific PIXITs

| Identifier | Description | |
| --- | --- | --- |
| PX\_CERTIFICATE\_DOCUMENT\_SUBJECT\_UUID | **Comment** | Certifcate document subject UUID |
| **Type** | charstring |
| **Def. value** | 787aa3e9b91b-5bc2-0cf5-80a8-183a716b8d59 |
| PX\_CERTIFICATE\_DOCUMENT\_SUBJECT | **Comment** | Certifcate document subject |
| **Type** | charstring |
| **Def. value** | Tonnage Certificate |
| PX\_CERTIFICATE\_DOCUMENT\_TITLE | **Comment** | Certifcate document title |
| **Type** | charstring |
| **Def. value** | Tonnage Certificate |
| PX\_CERTIFICATE\_DOCUMENT\_VERSION | Comment | Certifcate document version |
| **Type** | charstring |
| **Def. value** | V1.0.1 |
| PX\_CERTIFICATE\_DOCUMENT\_CONTENT | **Comment** | Certifcate document content |
| **Type** | charstring |
| **Def. value** |  |
| PX\_CERTIFICATE\_DOCUMENT\_B64\_CONTENT | Comment | Certifcate document content encoded B64 |
| **Type** | charstring |
| **Def. value** |  |
| PX\_CERTIFICATE\_DOCUMENT\_B64\_CONTENT\_HASH | **Comment** | Hash of the B64 certificate document content |
| **Type** | charstring |
| **Def. value** | 171.0 |
| PX\_CERTIFICATE\_DOCUMENT\_B64\_INVALID\_HASH | Comment | Altered hash of the B64 certificate document content |
| **Type** | charstring |
| **Def. value** | 81.0 |
| PX\_CERTIFICATE\_DOCUMENT\_TYPE | **Comment** | Document type |
| **Type** | CertificateDocumentType |
| **Def. value** | tonnageCertificate |

Table B.7.9: Incident specific PIXITs

| Identifier | Description | |
| --- | --- | --- |
| PX\_INCIDENT\_UUID | **Comment** | Incident UUID |
| **Type** | charstring |
| **Def. value** | 787aa3e9b91b-5bc2-0cf5-80a8-183a716b8d59 |
| PX\_INCIDENT\_NATURE\_TYPE | **Comment** | Nature of the incident |
| **Type** | NatureType |
| **Def. value** | observed |
| PX\_INCIDENT\_CERTAINTY | **Comment** | Certainty of the incident |
| **Type** | CertaintyType |
| **Def. value** | likely |
| PX\_INCIDENT\_DEATHS\_ON\_BOARD | **Comment** | Are they deaths on board? |
| **Type** | integer |
| **Def. value** | 0 |
| PX\_INCIDENT\_DISEASES\_ON\_BOARD | Comment | Are they deseases on board? |
| **Type** | boolean |
| **Def. value** | false |
| PX\_INCIDENT\_INFECTION\_ON\_BOARD | **Comment** | Are they infections on board? |
| **Type** | boolean |
| **Def. value** | false |
| PX\_INCIDENT\_NUMBER\_OF\_IILL\_PERSONS | Comment | Number of ill persons |
| **Type** | integer |
| **Def. value** | 5 |
| PX\_INCIDENT\_RESPONSE\_URGENCY | **Comment** | Urgency of the response to the incident |
| **Type** | UrgencyType |
| **Def. value** | future |
| PX\_INCIDENT\_SEVERITY | Comment | Incident severity |
| **Type** | SeverityType |
| **Def. value** | severe |
| PX\_INCIDENT\_SICK\_ANIMAL\_ON\_BOARD | **Comment** | Are they sick animals on board? |
| **Type** | boolean |
| **Def. value** | true |

Table B.7.10: Meteo Oceanographic Conditions specific PIXITs

| Identifier | Description | |
| --- | --- | --- |
| PX\_METEO\_AIR\_TEMP | **Comment** | Air temperature |
| **Type** | float |
| **Def. value** | 21.0 |
| PX\_METEO\_CLOUD\_CEILING | **Comment** | Cloud ceiling |
| **Type** | integer |
| **Def. value** | 1 |
| PX\_METEO\_CLOUD\_COVER | **Comment** | Cloud coverage |
| **Type** | CloudCoverType |
| **Def. value** | clearSky |
| PX\_METEO\_PRECIPITATION | **Comment** | Is the weather rainy? |
| **Type** | integer |
| **Def. value** | 0 |
| PX\_METEO\_SALINITY | Comment | Sea salinity |
| **Type** | float |
| **Def. value** | 5.9 |
| PX\_METEO\_SEA\_CONDITION | **Comment** | Sea condition |
| **Type** | SeaConditionType |
| **Def. value** | calm\_rippled |
| PX\_METEO\_SEA\_LEVEL\_PRESSURE | Comment | Sea level pressure |
| **Type** | float |
| **Def. value** | 1.0 |
| PX\_METEO\_SOURCE\_TYPE | **Comment** | Source of the meteo conditions information |
| **Type** | SourceType |
| **Def. value** | observed |
| PX\_METEO\_WATER\_TEMPERATURE | Comment | Surface sea remperature |
| **Type** | float |
| **Def. value** | 10.2 |

Table B.7.11: Risk specific PIXITs

| Identifier | Description | |
| --- | --- | --- |
| PX\_RISK\_UUID | **Comment** | Risk UUID |
| **Type** | charstring |
| **Def. value** | 787aa3e9b91b-5bc2-0cf5-80a8-183a716b8d59 |
| PX\_RISK\_LEVEL | **Comment** | Level of the risk |
| **Type** | RiskLevelType |
| **Def. value** | medium |
| PX\_RISK\_PROBABILITY | **Comment** | Risk probabiliyty |
| **Type** | RiskProbabilityType |
| **Def. value** | probable |
| PX\_RISK\_SEVERITY | Comment | Data freshness |
| **Type** | RiskSeverityType |
| **Def. value** | negligible |
| PX\_RISK\_TYPE | Comment | Risk type |
| **Type** | RiskType |
| **Def. value** | illegalFishing |

Table B.7.12: Cargo specific PIXITs

| Identifier | Description | |
| --- | --- | --- |
| PX\_CARGO\_NAME | **Comment** | Cargo name |
| **Type** | charstring |
| **Def. value** |  |
| PX\_ CARGO\_UUID | **Comment** | Cargo identifier |
| **Type** | charstring |
| **Def. value** | 787aa3e9b91b-5bc2-0cf5-80a8-183a716b8d59 |
| PX\_CARGO\_POS\_LATITUDE | **Comment** | Cargo position |
| **Type** | charstring |
| **Def. value** | 81.0 |
| PX\_CARGO\_POS\_LONGITUDE | Comment | Cargo position |
| **Type** | charstring |
| **Def. value** | 171.0 |
| PX\_CARGO\_TYPE | **Comment** | Cargo type |
| **Type** | CargoType |
| **Def. value** | largeFreightContainers |

6. Test Report

# 6.1 Static conformance review report

The PICS for this IUT is consistent with the static conformance requirements in the specified protocol.

If clause 5.2 indicates non‑conformance, this clause itemizes the mismatches between the PICS and the static conformance requirements of the specified protocol specification.

## 6.2 Test campaign report

For the complete list of all test cases refer to the test control module of the file described in Annex A of the present document.

Note ‘[Template - CISE Conformance test status.xlsm](file:///\\\\.\\JRCCiseSimu%20-%20CISE%20Conformance%20test%20status.xlsm" \t "_blank)’ is the compagnon Excel file coming with this document~~.~~

## 6.3 Observations

Additional information relevant to the technical content is given here.

# History

|  |  |  |
| --- | --- | --- |
| **Document history** | | |
| V0.0.1 | September 2023 | Early Draft |
| V0.0.2 | November 2023 | Editorial changes. |
| V0.0.3 | February 2024 | Added reference to Excel compagnon file and applied minor editorial changes. |