



**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;  
Release 1**

***Disclaimer***

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# Foreword

This Group Specification (GS) has been produced by ETSI Industry Specification Group (ISG) european Common information sharing environment service and Data Model (CDM).

The present document is Part 1 of a multi-part deliverable covering Conformance Test Specification as identified below:

**Part 1:** "**Test requirements and Protocol Implementation Conformance Statement (PICS) proforma**";

Part 2: "Test Suite Structure and Test Purposes (TSS & TP)";

Part 3: "Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT)".

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# 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](#) (Verbal forms for the expression of provisions).

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# Introduction

The development of standardized conformance test specifications is considered as a validation activity and is an integral part of the ETSI strategy for ensuring interoperability. The CDM Conformance Testing methodology consists of:

- Selection of Implementations Under Test (IUT);
- Identification of reference points.
- Development of test specifications, which includes:
  - Development of "Implementation Conformance Statements" (ICS).
  - Development of "Test Suite Structure and Test Purposes" (TSS & TP).
  - Development of "Abstract Test Suite" (ATS).

The present document focuses on ICS development.

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# 1 Scope

Based on the testing methodology guidelines specified in ETSI ETS 300 406 [i.1], ETSI EG 202 810 [i.2], ISO/IEC 9646-1 [i.3], ISO/IEC 9646-2 [i.4] and ISO/IEC 9646-7 [i.5], the present document specifies part 1 of a multi-part conformance test specification for the CDM service APIs for the exchange of messages complying with the CDM Data Model ETSI GS CDM 005 [1].

The present document specifies the Test requirements and Implementation Conformance Statement (ICS). Conformance testing can be performed either by means of ETSI CDM Testing Platform with a dedicated tenant instantiation (as described in ETSI GR CDM 008 [i.7]) or by using an external environment.

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## 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.

Referenced documents which are not found to be publicly available in the expected location might be found at <https://docbox.etsi.org/Reference>.

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 necessary for the application of the present document.

- [1] [ETSI GS CDM 005](#): "Common information sharing environment service and Data Model (CDM); Data Model; Release 1".
- [2] [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); Release 1".

### 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 ETS 300 406 (April 1995): "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".
- [i.2] ETSI EG 202 810 (V1.1.1): "Methods for Testing and Specification (MTS); Automated Interoperability Testing; Methodology and Framework".
- [i.3] ISO/IEC 9646-1: "Information technology -- Open Systems Interconnection -- Conformance testing methodology and framework -- Part 1: General concepts".
- [i.4] ISO/IEC 9646-2: "Information technology -- Open Systems Interconnection -- Conformance testing methodology and framework -- Part 2: Abstract Test Suite Specification".
- [i.5] ISO/IEC 9646-7: "Information technology -- Open Systems Interconnection -- Conformance testing methodology and framework -- Part 7: Implementation Conformance Statements".

- [i.6] ETSI GS CDM 004: "Common information sharing environment service and Data Model (CDM); Service Model; Release 1".
- [i.7] ETSI GR CDM 008: "Common information sharing environment service and Data Model (CDM); Testing Platform; Release 1".
- [i.8] ETSI GS CDM 003: "Common information sharing environment service and Data Model (CDM); CDM Architecture; Release 1".

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## 3 Definition of terms, symbols and abbreviations

### 3.1 Terms

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

**adaptor:** component external to CISE network connecting a Participant to CISE network via standardized interface

NOTE 1: The Adaptor is the bridge between the Legacy System and the Gateway translating LS data to the CISE Data Model. The Adaptor uses available Gateway Services depending on the strategy chosen for message exchange patterns and Data Model.

NOTE 2: The Adaptor could be either software or software/hardware component.

NOTE 3: In case of a new system connected to CISE, the Adaptor functionality may be part of the new system.

**message:** one of the structured sentences exchanged between Participants to discover, request and provide Services

**node:** software components that provide CISE infrastructure and access point to CISE network

**public key certificate:** digital certificate or identity certificate used in cryptography as an electronic document to prove the ownership of a public key

NOTE 1: The certificate includes information about the key, information about its owner's identity, and the digital signature of an entity that has verified that the certificate's contents are correct. If the signature is valid, and the person examining the certificate trusts the signer, then they know they can use that key to communicate with its owner.

NOTE 2: A Public Key Infrastructure (PKI) is a system for the creation, storage, and distribution of digital certificates. The PKI creates digital certificates that map public keys to entities.

NOTE 3: In a typical Public-Key Infrastructure (PKI) scheme, the signer is a Certification Authority (CA).

**Representational State Transfer (REST):** architectural style for providing standards between computer systems on the web. It leverages the capabilities of Hypertext Transfer Protocol (HTTP) and Uniform Resource Identifiers (URIs) to retrieve or modify the state of a resource

**Secure Sockets Layer (SSL):** standard security technology for establishing an encrypted link between a server and a client—typically a web server (website) and a browser, or a mail server and a mail client

**Service registry:** registry where services provided by the CISE Adaptors connected to a Node are registered and managed

NOTE: Each CISE Node has its own service registry.

**Transport Layer Security (TLS):** cryptographic protocol designed to provide communications security over a computer network

**Virtual Private Network (VPN):** mechanism for creating a secure connection between a computing device and a computer network, or between two networks, using an insecure communication medium such as the public Internet

## 3.2 Symbols

Void.

## 3.3 Abbreviations

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

API	Application Programming Interface
ATS	Abstract Test Suite
CA	Certification Authority
CDM	CISE Data Model
CISE	Common Information Sharing Environment
GR	Group Report
GS	Group Specification
HTTP	Hypertext Transfer Protocol
ICS	Implementation Conformance Statement
ID	Identifier
ISG	Industry Specification Group
IUT	Implementation Under Test
LS	Legacy System
PICS	Protocol Implementation Conformance Statement
PKI	Public Key Infrastructure
REST	Representational State Transfer
SSL	Secure Sockets Layer
SUT	System Under Test
TLS	Transport Layer Security
TP	Test Purpose
TSS	Test Suite Structure
TTCN-3	Testing and Test Control Notation
URI	Uniform Resource Identifier
VPN	Virtual Private Network

---

## 4 Conformance requirement concerning ICS

If it claims to conform to the present document, the actual ICS proforma to be filled in by a supplier shall be technically equivalent to the text of the ICS proforma given in Annex A, and shall preserve the numbering, naming and ordering of the proforma items.

An ICS which conforms to the present document shall be a conforming ICS proforma completed in accordance with the instructions for completion given in clause A.2.



---

## Annex A (normative): CDM ICS pro forma

### A.1 The right to copy

Notwithstanding the provisions of the copyright clause related to the text of the present document, ETSI grants that users of the present document may freely reproduce the CDM ICS proforma in this annex so that it can be used for its intended purposes and may further publish the completed CDM ICS.

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## A.2 Guidance for completing the ICS Proforma

### A.2.1 Purpose and structure

The purpose of this ICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in ETSI CDM specifications may provide information about the implementation in a standardized manner.

The ICS proforma is subdivided into clauses for the following categories of information:

- guidance for completing the ICS proforma;
- identification of the implementation;
- identification of the ETSI CDM APIs and data formats;
- global statement of conformance;
- requirements and ICS tables.

### A.2.2 Instructions for completing the ICS proforma

The supplier of the implementation shall complete the ICS proforma in each of the spaces provided. In particular, an explicit answer shall be entered, in each of the support or supported column boxes provided.

If necessary, the supplier may provide additional comments in space at the bottom of the tables or separately.

More detailed instructions are given at the beginning of the different clauses of the ICS proforma.

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## A.3 Identification of the implementation

### A.3.1 Introduction

Identification of the Implementation Under Test (IUT) and the system in which it resides (System Under Test - SUT) should be communicated so as to provide as much details as possible regarding version numbers and configuration options.

Clause A.3 provides a template for collecting such information.

The product supplier information and client information should both be filled in if they are different. A person who can answer queries regarding information supplied in the ICS should be named as the contact person.

### A.3.2 Date of the statement

.....

### A.3.3 Implementation Under Test (IUT) identification

IUT name:

.....  
.....

IUT version:

.....  
.....

### A.3.4 System Under Test (SUT) identification

SUT name:

.....  
.....

Hardware configuration:

.....  
.....  
.....

### A.3.5 Product supplier

Name:

.....

Address:

.....  
.....  
.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....  
.....  
.....

### A.3.6 Client (if different from product supplier)

Name:

.....

Address:

.....  
.....  
.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....  
.....

### A.3.7 ICS contact person

(A person to contact if there are any queries concerning the content of the ICS)

Name:

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

## A.4 Identification of the ETSI CDM specifications

This ICS proforma applies to the following standards:

- ETSI GS CDM 003 [i.8].
- ETSI GS CDM 004 [i.6].
- ETSI GS CDM 005 [1].
- ETSI GR CDM 008 [i.7].

## A.5 Global statement of conformance

### A.5.1 Introduction

Clause A.5 provides a template for a global statement of conformance.

Are all mandatory capabilities implemented? (Yes/No) .....

NOTE: Answering "No" to this question indicates non-conformance to the CDM standard specification. Non-supported mandatory capabilities are to be identified in the ICS, with an explanation of why the implementation is non-conforming, on pages attached to the ICS proforma.

### A.5.2 IUT role in CDM architecture

Table A.1: IUT role

Item	Entity type	Mnemonic	Reference	Condition	Support
1	CISE Node	IUT_CDM_NODE	ETSI GS CDM 003 [i.8], clause 5.2.1	C.1	<input type="radio"/> Yes <input type="radio"/> No
2	CISE Adaptor	IUT_CDM_ADAPTOR	ETSI GS CDM 003 [i.8], clause 5.2.1	C.1	<input type="radio"/> Yes <input type="radio"/> No
C.1: At least one shall be supported.					

### A.5.3 IUT interfaces and supported functionality

The IUT provider shall fill the tables below to express more specific capabilities of the IUT. By checking "Yes" in the support column, the IUT provider expresses the intention to be tested for conformance on all endpoints and operations defined in the related table identified in the "Reference" column.

The mnemonic column contains an identifier for the group of capabilities, used in the definition of Test Purposes and Test Cases. The Mnemonic identifier is not provided for all groups, and when not defined the related cell shall contain "n/a" (not available).

The table specifies two types of items:

- Level 1 items, identified by a singular digit (e.g. 1), which identify base specification; and
- Level 2 items, identified by a two digits separated by a dot (e.g. 1.1), which identify sub elements of the base specification for more detailed statements.

To express that an IUT that does not support any of the Level 2 items for a certain certification, the IUT provider shall check "No" in the support column for the related Level 1 item. The related Level 2 items may be left unchecked and they will be assumed not to be tested.

To express that an IUT does support some (or all) of the Level 2 items for a certain specification, the IUT provider shall check "Yes" in the support column for the related Level 1 item and mark all Level 2 items according to the IUT implementation capabilities.

**Table A.2: Supported communication patterns**

Item	Entity type	Mnemonic	Reference	Condition	Support
1	Operation	n/a	n/a	n/a	n/a
1.1	Pull	CDM_PULL	Table A.5	m	O Yes O No
1.2	Push	CDM_PUSH	Table A.5	m	O Yes O No
1.3	Subscribe	CDM_SUBSCRIBE	Table A.5	m	O Yes O No
1.4	Feedback	CDM_FEEDBACK	Table A.5	m	O Yes O No

**Table A.3: Supported service types**

Item	Entity type	Mnemonic	Reference	Condition	Support
2	Entity_Service	n/a	n/a	n/a	n/a
2.1	ActionService	CDM_ACTION_SERVICE	Table A.6	C.1	O Yes O No
2.2	AnomalyService	CDM_ANOMALY_SERVICE	Table A.6	C.1	O Yes O No
2.3	CertificateDocumentService	CDM_CERTIFICATE_DOCUMENT_SERVICE	Table A.6	C.1	O Yes O No
2.4	IncidentService	CDM_INCIDENT_SERVICE	Table A.6	C.1	O Yes O No
2.5	IrregularMigrationIncidentService	CDM_IRREGULAR_MIGRATION_INCIDENT_SERVICE	Table A.6	C.1	O Yes O No
2.6	LawInfringementIncidentService	CDM_LAW_INFRINGEMENT_INCIDENT_SERVICE	Table A.6	C.1	O Yes O No
2.7	MeteoOceanographicConditionService	CDM_METEO_OCEANOGRAPHIC_CONDITION_SERVICE	Table A.6	C.1	O Yes O No
2.8	OrganizationService	CDM_ORGANIZATION_SERVICE	Table A.6	C.1	O Yes O No
2.9	RiskService	CDM_RISK_SERVICE	Table A.6	C.1	O Yes O No
2.10	CargoService	CDM_CARGO_SERVICE	Table A.6	C.1	O Yes O No
2.11	VesselService	CDM_VESSEL_SERVICE	Table A.6	C.1	O Yes O No
C.1:	At least one entity shall be supported if the IUT is an adaptor. All entities shall be supported if the IUT is a node.				

**Table A.4: Additional requirements**

Item	Entity type	Mnemonic	Reference	Condition	Support
3	AdditionalRequirements	n/a	n/a	n/a	n/a
3.1	RootURI	ROOT_API	A.1	m	O Yes O No
3.2	PullRequestURI	CDM_PULL_REQUEST_URI	A.1	m	O Yes O No
3.3	PullResponseURI	CDM_PULL_RESPONSE_URI	A.1	m	O Yes O No
3.4	PushRequestURI	CDM_PUSH_REQUEST_URI	A.1	m	O Yes O No
3.5	FeedbackResponseURI	CDM_FEEDBACK_REQUEST_URI	A.1	m	O Yes O No
3.6	PathToTheTestSystemCertificateDataBase	CDM_CERTIFICATE_DB_PATH	A.1	m	O Yes O No
3.7	TestSystemSigningCertificate	CDM_TS_CERTIFICATE	A.1	m	O Yes O No
3.8	TestSystemPrivateKeyForTheSigningCertificate	CDM_TS_SIGNING_PRIVATE_KEY	A.1	m	O Yes O No
3.7	ExpiredTestSystemSigningCertificate	CDM_TS_CERTIFICATE_PAST	A.1	m	O Yes O No
3.8	ExpiredTestSystemPrivateKeyForTheSigningCertificate	CDM_TS_SIGNING_PRIVATE_KEY_PAST	A.1	m	O Yes O No
3.9	TestSystemSigningCertificateWithStartingDateInTheFuture	CDM_TS_CERTIFICATE_FUTURE	A.1	m	O Yes O No
3.10	TestSystemPrivateKeyForTheSigningCertificateWithStartingDateInTheFuture	CDM_TS_SIGNING_PRIVATE_KEY_FUTURE	A.1	m	O Yes O No
A.1:	For the reference consider TTCN-3 library modules from ETSI source repository.				

## A.6 Requirements and ICS tables

### A.6.1 Test Requirements

ETSI GS CDM 004 [i.6], clause 5.4, defines the communication patterns. Upon analysis of such features, the following list of requirements was collected, including provisions that are not explicitly marked but which can be tested to improve conformance and interoperability levels. These requirements are defined in Tables A.5 and A.6.

**Table A.5: Classification of requirements for the communication patterns**

Requirement ID	Requirement description	Reference
CDM.COMM_PATTERN.001	By fulfilling this requirement, the legacy system can request a piece of information to a defined CISE provider through the Pull operation, using the PullRequest message.	ETSI GS CDM 004 [i.6], clause 5.2.2
CDM.COMM_PATTERN.002	By fulfilling this requirement, the legacy system can request a piece of information to a set of CISE providers through the Multicast Pull operation.	ETSI GS CDM 004 [i.6], clause 5.2.2
CDM.COMM_PATTERN.003	By fulfilling this requirement, the legacy system can request a piece of information to a set of CISE providers without knowing if any of them can answer the request (Pull Unknown).	ETSI GS CDM 004 [i.6], clause 5.1
CDM.COMM_PATTERN.004	By fulfilling this requirement, the legacy system can provide a piece of information to a CISE consumer through the Push operation.	ETSI GS CDM 004 [i.6], clause 5.2.3
CDM.COMM_PATTERN.005	By fulfilling this requirement, the legacy system can provide piece of information to a set of CISE consumers through the Multicast Push operation.	ETSI GS CDM 004 [i.6], clause 5.2.3
CDM.COMM_PATTERN.006	By fulfilling this requirement, the legacy system can provide a piece of information to a set of potential CISE consumers without knowing if they are interested in the information (Push Unknown).	ETSI GS CDM 004 [i.6], clause 5.2.3
CDM.COMM_PATTERN.007	By fulfilling this requirement, the legacy system can request a piece of information to a set of CISE providers through the Publish/Subscribe operation (based on Pull Operation followed by a sequence of Push notifications sent to all subscribers).	ETSI GS CDM 004 [i.6], clause 5.2.4

**Table A.6: Classification of requirements for supported services**

Requirement ID	Requirement description	Reference
CDM.ACTIONSERVICE.001	If a CISE IUT is supporting VesselService it shall process operation messages (i.e. PullRequest, Push, Acknowledgement, PullResponse, Feedback) including mandatory Vessel fields.	ETSI GS CDM 005 [1], clause 6.2
CDM.ANOMALYSERVICE.002	If a CISE IUT is supporting AnomalyService it shall process operation messages (i.e. PullRequest, Push, Acknowledgement, PullResponse, Feedback) including mandatory Vessel fields.	ETSI GS CDM 005 [1], clause 6.2
CDM.CERTIFICATEDOCUMENTSERVICE.003	If a CISE IUT is supporting CertificateDocumentService it shall process operation messages (i.e. PullRequest, Push, Acknowledgement, PullResponse, Feedback) including mandatory Vessel fields.	ETSI GS CDM 005 [1], clause 6.2
CDM.INCIDENTSERVICE.004	If a CISE IUT is supporting IncidentService it shall process operation messages (i.e. PullRequest, Push, Acknowledgement, PullResponse, Feedback) including mandatory Vessel fields.	ETSI GS CDM 005 [1], clause 6.2
CDM.IRREGULARMIGRATIONINCIDENTSERVICE.005	If a CISE IUT is supporting IrregularMigrationIncidentService it shall process operation messages (i.e. PullRequest, Push, Acknowledgement, PullResponse, Feedback) including mandatory Vessel fields.	ETSI GS CDM 005 [1], clause 6.2

Requirement ID	Requirement description	Reference
CDM.LAWINFRINGEMENTINCIDENTSERVICE.006	If a CISE IUT is supporting LawInfringementIncidentService it shall process operation messages (i.e. PullRequest, Push, Acknowledgement, PullResponse, Feedback) including mandatory Vessel fields.	ETSI GS CDM 005 [1], clause 6.2
CDM.METEOOCEANOGRAPHICCONDITIONSERVICE.007	If a CISE IUT is supporting MeteoOceanographicConditionService it shall process operation messages (i.e. PullRequest, Push, Acknowledgement, PullResponse, Feedback) including mandatory Vessel fields.	ETSI GS CDM 005 [1], clause 6.2
CDM.ORGANIZATIONSERVICE.008	If a CISE IUT is supporting OrganizationService it shall process operation messages (i.e. PullRequest, Push, Acknowledgement, PullResponse, Feedback) including mandatory Vessel fields.	ETSI GS CDM 005 [1], clause 6.2
CDM.RISKSERVICE.009	If a CISE IUT is supporting RiskService it shall process operation messages (i.e. PullRequest, Push, Acknowledgement, PullResponse, Feedback) including mandatory Vessel fields.	ETSI GS CDM 005 [1], clause 6.2
CDM.CARGOSERVICE.010	If a CISE IUT is supporting CargoService it shall process operation messages (i.e. PullRequest, Push, Acknowledgement, PullResponse, Feedback) including mandatory Vessel fields.	ETSI GS CDM 005 [1], clause 6.2
CDM.VESSELSERVICE.011	If a CISE IUT is supporting VesselService it shall process operation messages (i.e. PullRequest, Push, Acknowledgement, PullResponse, Feedback) including mandatory Vessel fields.	ETSI GS CDM 005 [1], clause 6.2

## A.6.2 Implementation Conformance Statement

Table A.7 defines the list of Implementation Conformance Statements for the features addressed in the Service API, according to service types defined in ETSI GS CDM 004 [i.6], clause 6.

Table A.7: List of ICSs

ID	Resource	Reference	Operation	Required according to the present document	Request Body	Response Body	Support
1	ActionService	ETSI GS CDM 005 [1], clause 6.2.3.2.1	Push	C.1	ETSI GS CDM 007-2 [2], clause 6	ETSI GS CDM 007-2 [2], clause 6	<input type="radio"/> Yes <input type="radio"/> No
			Pull				<input type="radio"/> Yes <input type="radio"/> No
			Subscribe				<input type="radio"/> Yes <input type="radio"/> No
			Feedback				<input type="radio"/> Yes <input type="radio"/> No
2	AnomalyService	ETSI GS CDM 005 [1], clause 6.2.3.2.2	Push	C.1	ETSI GS CDM 007-2 [2], clause 6	ETSI GS CDM 007-2 [2], clause 6	<input type="radio"/> Yes <input type="radio"/> No
			Pull				<input type="radio"/> Yes <input type="radio"/> No
			Subscribe				<input type="radio"/> Yes <input type="radio"/> No
			Feedback				<input type="radio"/> Yes <input type="radio"/> No
3	CertificateDocumentService	ETSI GS CDM 005 [1], clause 6.2.2.2	Push	C.1	ETSI GS CDM 007-2 [2], clause 6	ETSI GS CDM 007-2 [2], clause 6	<input type="radio"/> Yes <input type="radio"/> No
			Pull				<input type="radio"/> Yes <input type="radio"/> No
			Subscribe				<input type="radio"/> Yes <input type="radio"/> No
			Feedback				<input type="radio"/> Yes <input type="radio"/> No
4	IncidentService	ETSI GS CDM 005 [1], clause 6.2.3.2.3	Push	C.1	ETSI GS CDM 007-2 [2], clause 6	ETSI GS CDM 007-2 [2], clause 6	<input type="radio"/> Yes <input type="radio"/> No
			Pull				<input type="radio"/> Yes <input type="radio"/> No
			Subscribe				<input type="radio"/> Yes <input type="radio"/> No
			Feedback				<input type="radio"/> Yes <input type="radio"/> No
5	IrregularMigrationIncidentService	ETSI GS CDM 005 [1], clause 6.2.3.1	Push	C.1	ETSI GS CDM 007-2 [2], clause 6	ETSI GS CDM 007-2 [2], clause 6	<input type="radio"/> Yes <input type="radio"/> No
			Pull				<input type="radio"/> Yes <input type="radio"/> No
			Subscribe				<input type="radio"/> Yes <input type="radio"/> No
			Feedback				<input type="radio"/> Yes <input type="radio"/> No
6	LawInfringementIncidentService	ETSI GS CDM 005 [1], clause 6.2.3.1	Push	C.1	ETSI GS CDM 007-2 [2], clause 6	ETSI GS CDM 007-2 [2], clause 6	<input type="radio"/> Yes <input type="radio"/> No
			Pull				<input type="radio"/> Yes <input type="radio"/> No
			Subscribe				<input type="radio"/> Yes <input type="radio"/> No
			Feedback				<input type="radio"/> Yes <input type="radio"/> No
7	MeteoOceanographicConditionService	ETSI GS CDM 005 [1], clause 6.2.4.2.1	Push	C.1	ETSI GS CDM 007-2 [2], clause 6	ETSI GS CDM 007-2 [2], clause 6	<input type="radio"/> Yes <input type="radio"/> No
			Pull				<input type="radio"/> Yes <input type="radio"/> No
			Subscribe				<input type="radio"/> Yes <input type="radio"/> No
			Feedback				<input type="radio"/> Yes <input type="radio"/> No



ID	Resource	Reference	Operation	Required according to the present document	Request Body	Response Body	Support
8	OrganizationService	ETSI GS CDM 005 [1], clause 6.2.1.2.1	Push	C.1	ETSI GS CDM 007-2 [2], clause 6	ETSI GS CDM 007-2 [2], clause 6	<input type="radio"/> Yes <input type="radio"/> No
			Pull				<input type="radio"/> Yes <input type="radio"/> No
			Subscribe				<input type="radio"/> Yes <input type="radio"/> No
			Feedback				<input type="radio"/> Yes <input type="radio"/> No
9	RiskService	ETSI GS CDM 005 [1], clause 6.2.7	Push	C.1	ETSI GS CDM 007-2 [2], clause 6	ETSI GS CDM 007-2 [2], clause 6	<input type="radio"/> Yes <input type="radio"/> No
			Pull				<input type="radio"/> Yes <input type="radio"/> No
			Subscribe				<input type="radio"/> Yes <input type="radio"/> No
			Feedback				<input type="radio"/> Yes <input type="radio"/> No
10	CargoService	ETSI GS CDM 005 [1], clause 6.2.5.1.2	Push	C.1	ETSI GS CDM 007-2 [2], clause 6	ETSI GS CDM 007-2 [2], clause 6	<input type="radio"/> Yes <input type="radio"/> No
			Pull				<input type="radio"/> Yes <input type="radio"/> No
			Subscribe				<input type="radio"/> Yes <input type="radio"/> No
			Feedback				<input type="radio"/> Yes <input type="radio"/> No
11	VesselService	ETSI GS CDM 005 [1], clause 6.2.5.2.3	Push	C.1	ETSI GS CDM 007-2 [2], clause 6	ETSI GS CDM 007-2 [2], clause 6	<input type="radio"/> Yes <input type="radio"/> No
			Pull				<input type="radio"/> Yes <input type="radio"/> No
			Subscribe				<input type="radio"/> Yes <input type="radio"/> No
			Feedback				<input type="radio"/> Yes <input type="radio"/> No
C.1: At least one entity shall be supported if the IUT is an adaptor. All entities shall be supported if the IUT is a node.							

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## History

<b>Document history</b>		
V1.1.1	July 2024	Publication