



GROUP SPECIFICATION

**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**

Disclaimer

The present document has been produced and approved by the european Common information sharing environment service and Data Model (CDM) ETSI Industry Specification Group (ISG) and represents the views of those members who participated in this ISG. It does not necessarily represent the views of the entire ETSI membership.

Reference

DGS/CDM-0013

Keywords

data sharing, testing, TSS&TP

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - APE 7112B
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° w061004871

Important notice

The present document can be downloaded from:
<https://www.etsi.org/standards-search>

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the prevailing version of an ETSI deliverable is the one made publicly available in PDF format at www.etsi.org/deliver.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at <https://portal.etsi.org/TB/ETSIDeliverableStatus.aspx>

If you find errors in the present document, please send your comment to one of the following services:
<https://portal.etsi.org/People/CommitteeSupportStaff.aspx>

If you find a security vulnerability in the present document, please report it through our Coordinated Vulnerability Disclosure Program:
<https://www.etsi.org/standards/coordinated-vulnerability-disclosure>

Notice of disclaimer & limitation of liability

The information provided in the present deliverable is directed solely to professionals who have the appropriate degree of experience to understand and interpret its content in accordance with generally accepted engineering or other professional standard and applicable regulations.

No recommendation as to products and services or vendors is made or should be implied.

No representation or warranty is made that this deliverable is technically accurate or sufficient or conforms to any law and/or governmental rule and/or regulation and further, no representation or warranty is made of merchantability or fitness for any particular purpose or against infringement of intellectual property rights.

In no event shall ETSI be held liable for loss of profits or any other incidental or consequential damages.

Any software contained in this deliverable is provided "AS IS" with no warranties, express or implied, including but not limited to, the warranties of merchantability, fitness for a particular purpose and non-infringement of intellectual property rights and ETSI shall not be held liable in any event for any damages whatsoever (including, without limitation, damages for loss of profits, business interruption, loss of information, or any other pecuniary loss) arising out of or related to the use of or inability to use the software.

Copyright Notification

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.
The copyright and the foregoing restriction extend to reproduction in all media.

© ETSI 2024.
All rights reserved.

Contents

Intellectual Property Rights	6
Foreword.....	6
Modal verbs terminology.....	6
1 Scope	7
2 References	7
2.1 Normative references	7
2.2 Informative references.....	7
3 Definition of terms, symbols and abbreviations.....	8
3.1 Terms.....	8
3.2 Symbols.....	8
3.3 Abbreviations	8
4 Test Suite Structure (TSS).....	8
4.1 Structure for CDM API tests	8
5 CDM Security	9
5.1 Overview	9
5.1.1 Certificates content	9
5.1.1.1 Certificate in the past	9
5.1.1.2 Certificate in the future	9
6 Test Purposes (TP)	9
6.1 Introduction	9
6.1.1 TP definition conventions.....	9
6.1.2 TP Identifier naming conventions.....	10
6.1.3 Rules for the behaviour description	10
6.1.4 Sources of TP definitions.....	10
6.1.5 Mnemonics for PICS reference.....	10
6.2 EI NA Interface	11
6.2.1 Pull Request.....	11
6.2.1.1 Vessel service.....	11
6.2.1.2 Action service	21
6.2.1.3 Anomaly service	25
6.2.1.4 CertificateDocument service	27
6.2.1.5 Incident service	29
6.2.1.6 IrregularInfringementIncident service.....	30
6.2.1.7 LawInfringementIncident service	32
6.2.1.8 MeteoOceanographicCondition service	33
6.2.1.9 Organization service.....	34
6.2.1.10 Risk service	36
6.2.1.11 Cargo service.....	37
6.2.2 Pull Request multicast	38
6.2.2.1 Vessel service.....	38
6.2.2.2 Action service	39
6.2.3 Pull Discovery	41
6.2.3.1 Vessel service.....	41
6.2.3.2 Action service	42
6.2.3.3 Anomaly service	43
6.2.3.4 CertificateDocument service	44
6.2.3.5 Incident service	46
6.2.3.6 IrregularInfringementIncident service.....	47
6.2.3.7 LawInfringementIncident service	48
6.2.3.8 MeteoOceanographicCondition service	49
6.2.3.9 Organization service.....	51
6.2.3.10 Risk service	52
6.2.3.11 Cargo service.....	53

6.2.4	Push/Subscribe.....	54
6.2.4.1	Vessel service.....	54
6.2.4.2	Action service	56
6.2.4.3	Anomaly service	57
6.2.4.4	CertificateDocument service	58
6.2.4.5	Incident service	60
6.2.4.6	IrregularInfringementIncident service.....	61
6.2.4.7	LawInfringementIncident service	62
6.2.4.8	MeteoOceanographicCondition service	63
6.2.4.9	Organization service.....	64
6.2.4.10	Risk service	65
6.2.4.11	Cargo service.....	66
6.2.5	Push/Subscribe lookup.....	67
6.2.5.1	Vessel service.....	67
6.2.5.2	Action service	68
6.2.5.3	Anomaly service	69
6.2.5.4	CertificateDocument service	70
6.2.5.5	Incident service	71
6.2.5.6	IrregularInfringementIncident service.....	72
6.2.5.7	LawInfringementIncident service	73
6.2.5.8	MeteoOceanographicCondition service	74
6.2.5.9	Organization service.....	75
6.2.5.10	Risk service	76
6.2.5.11	Cargo service.....	76
6.2.6	Push/Unsubscribe	77
6.2.6.1	Vessel service.....	77
6.2.6.2	Action service	79
6.2.6.3	Anomaly service	80
6.2.6.4	CertificateDocument service	80
6.2.6.5	Incident service	81
6.2.6.6	IrregularInfringementIncident service.....	82
6.2.6.7	LawInfringementIncident service	83
6.2.6.8	MeteoOceanographicCondition service	84
6.2.6.9	Organization service.....	84
6.2.6.10	Risk service	85
6.2.6.11	Cargo service.....	86
6.2.7	Push/Notify	87
6.2.7.1	Vessel service.....	87
6.2.7.2	Action service	88
6.2.7.3	Anomaly service	89
6.2.7.4	CertificateDocument service	90
6.2.7.5	Incident service	91
6.2.7.6	IrregularInfringementIncident service.....	92
6.2.7.7	LawInfringementIncident service	93
6.2.7.8	MeteoOceanographicCondition service	94
6.2.7.9	Organization service.....	95
6.2.7.10	Risk service	96
6.2.7.11	Cargo service.....	97
6.2.8	Asynchronous Acknowledgement	98
6.2.8.1	Vessel service.....	98
6.2.9	Feedback.....	99
6.2.9.1	Vessel service.....	99
6.2.9.2	Action Service.....	100
6.2.9.3	Anomaly Service.....	101
6.2.9.4	Certificate Document Service	102
6.2.9.5	Incident Service.....	103
6.2.9.6	IrregularMigrationIncident Service.....	104
6.2.9.7	LawInfringementIncident Service	105
6.2.9.8	MeteoOceanographicCondition service	106
6.2.9.9	Organization service.....	107
6.2.9.10	Risk service	108
6.2.9.11	Cargo service.....	109

6.3	EI NN Interface	110
6.3.1	Pull Request	110
6.3.1.1	Vessel service	110
6.3.1.2	Action service	113
6.3.1.3	Anomaly service	115
6.3.1.4	CertificateDocument service	116
6.3.1.5	Incident service	117
6.3.1.6	IrregularMigrationIncident service	118
6.3.1.7	LawInfringementIncident service	119
6.3.1.8	MeteoOceanographicCondition service	121
6.3.1.9	Organization service	122
6.3.1.10	Risk service	123
6.3.1.11	Cargo service	124
6.3.2	Pull Discovery	125
6.3.3	Push/Subscribe	126
6.3.4	Push/Subscribe lookup	127
6.3.5	Push/Unsubscribe	128
6.3.6	Push/Notify	129
6.3.7	Asynchronous Acknowledgement	130
6.3.8	Feedback	131
6.4	Adaptor	133
6.4.1	Pull Request	133
6.4.2	Pull Discovery	141
6.4.3	Push/Subscribe	148
6.4.4	Push/Subscribe lookup	156
6.4.5	Push/Unsubscribe	163
6.4.6	Push/Notify	171
6.4.7	Asynchronous Acknowledgement	180
6.4.8	Feedback	180
6.5	Security	189
	History	197

Intellectual Property Rights

Essential patents

IPRs essential or potentially essential to normative deliverables may have been declared to ETSI. The declarations pertaining to these essential IPRs, if any, are publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<https://ipr.etsi.org/>).

Pursuant to the ETSI Directives including the ETSI IPR Policy, no investigation regarding the essentiality of IPRs, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Trademarks

The present document may include trademarks and/or tradenames which are asserted and/or registered by their owners. ETSI claims no ownership of these except for any which are indicated as being the property of ETSI, and conveys no right to use or reproduce any trademark and/or tradename. Mention of those trademarks in the present document does not constitute an endorsement by ETSI of products, services or organizations associated with those trademarks.

DECT™, **PLUGTESTS™**, **UMTS™** and the ETSI logo are trademarks of ETSI registered for the benefit of its Members. **3GPP™** and **LTE™** are trademarks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners. **oneM2M™** logo is a trademark of ETSI registered for the benefit of its Members and of the oneM2M Partners. **GSM®** and the GSM logo are trademarks registered and owned by the GSM Association.

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 2 of a multi-part deliverable. Full details of the entire series can be found in part 1 [i.6].

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).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

1 Scope

The present document provides the Test Suite Structure and Test Purposes (TSS & TP) for the CDM service APIs for the exchange of messages complying with the CDM Data Model, in accordance with the relevant guidance given in ISO/IEC 9646-7 [i.4].

The ISO standards for the methodology of conformance testing (ISO/IEC 9646-1 [i.1] and ISO/IEC 9646-2 [i.2]) as well as the ETSI rules for conformance testing (ETSI ETS 300 406 [i.5]) are used as a basis for the test methodology.

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 004](#): "Common information sharing environment service and Data Model (CDM); Service Model; Release 1".
- [2] [ETSI GS CDM 005](#): "Common information sharing environment service and Data Model (CDM); Data Model; 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] ISO/IEC 9646-1 (1994): "Information technology -- Open Systems Interconnection -- Conformance testing methodology and framework -- Part 1: General concepts".
- [i.2] ISO/IEC 9646-2 (1994): "Information technology -- Open Systems Interconnection -- Conformance testing methodology and framework -- Part 2: Abstract Test Suite specification".
- [i.3] ISO/IEC 9646-6 (1994): "Information technology -- Open Systems Interconnection -- Conformance testing methodology and framework -- Part 6: Protocol profile test specification".
- [i.4] ISO/IEC 9646-7 (1995): "Information technology -- Open Systems Interconnection -- Conformance testing methodology and framework -- Part 7: Implementation Conformance Statements".
- [i.5] ETSI ETS 300 406 (1995): "Methods for testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

- [i.6] 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; Release 1".

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 [1], ETSI GS CDM 005 [2], 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:

BV	Valid Behaviour tests
CDM	CISE Data Model
CISE	Common Information Sharing Environment
HTTP	Hypertext Transfer Protocol
IUT	Implementation Under Test
PICS	Protocol Implementation Conformance Statement
TP	Test Purpose
TSS	Test Suite Structure

4 Test Suite Structure (TSS)

4.1 Structure for CDM API tests

Table 1 shows the CDM API Test Suite Structure (TSS) defined for conformance testing.

Table 1: TSS for CDM

Root	Group	SubGroup	Category
CDM	NM EA Interface	PullRequest	Valid and Invalid
		PullRequest Multicast	Valid
		PullRequest Discovery	Valid and Invalid
		Subscribe	Valid and Invalid
		Subscribe Lookup	Valid and Invalid
		Unsubscribe	Valid and Invalid
		Asynchronous Acknowledgement	Valid
		Feedback	Valid
	NM EA Interface	PullRequest	Valid and Invalid
		PullRequest Multicast	Valid
		PullRequest Discovery	Valid and Invalid
		Subscribe	Valid and Invalid
		Subscribe Lookup	Valid and Invalid
		Unsubscribe	Valid and Invalid
		Asynchronous Acknowledgement	Valid
		Feedback	Valid

Root	Group	SubGroup	Category
	Adaptor	PullRequest	Valid and Invalid
		PullRequest Multicast	Valid
		PullRequest Discoveryr	Valid and Invalid
		Subscribe	Valid and Invalid
		Subscribe Lookup	Valid and Invalid
		Unsubscribe	Valid and Invalid
		Asynchronous Acknowledgement	Valid
		Feedback	Valid
	Security	N/A	Valid and Invalid

5 CDM Security

5.1 Overview

5.1.1 Certificates content

5.1.1.1 Certificate in the past

In addition of regular signing certificate, one expired certificate is used to verify that the IUT discard message signed with this invalid certificate.

5.1.1.2 Certificate in the future

In addition of regular signing certificate, one certificate valid in the future is used to verify that the IUT discard message signed with this invalid certificate.

6 Test Purposes (TP)

6.1 Introduction

6.1.1 TP definition conventions

The TP definition is built according to ISO/IEC 9646-6 [i.3].

6.1.2 TP Identifier naming conventions

The identifier of the TP is built according to Table 2.

Table 2: TP naming convention

Identifier	TP_<root>_<tgt>_<gr>_<sub-gr> <sn>_<x>	Sub-Group	Category
TP	<root> = root	CDM	CISE Conformance Test
	<tgt> = target	NODE	CISE Node/Adaptor interface
		NODE_I2	CISE Node/Gateway interface
		ADAPTOR	Adaptor
		SECURITY	Security
	<gr> = group	PULL_REQUEST	PullRequest communication
		PULL_MULTI_PULL_REQ	PullRequest multicast communication
		PULL_DISC	PullRequest Discovery
		SUB	Subscription
		SUB_LOOK	Subscribers lookup
		SUB_DELETE	Subscription deletion
		PUSH_NOTIFY	Notification communication
		ACK	Asynchronous acknowledgement
		FEEDBACK	Feedback communication
	<sn> = test purpose sequential number		01 to 99
	<x> = category	BV	Valid Behaviour tests
		BO	Invalid Behaviour Tests

6.1.3 Rules for the behaviour description

The description of the TP is built according to ISO/IEC 9646-6 [i.3].

Being in the "Initial State" refers to the starting point of the initial device configuration. There are no pending actions, no instantiated buffers or variables, which could disturb the execution of a test.

6.1.4 Sources of TP definitions

All TPs have been specified according to ETSI GS CDM 004 [1] and ETSI GS CDM 005 [2].

6.1.5 Mnemonics for PICS reference

To avoid an update of all TPs when the PICS document is changed, Table 3 introduces mnemonics name and the correspondence with the real PICS item number. The 'PICS item' shall be used to determine the test applicability.

Table 3: Mnemonics for PICS reference

N.	Mnemonic	PICS item
1	IUT_NODE	ETSI GS CDM 007-1 [i.6] A.1/1
2	IUT_ADAPTOR	ETSI GS CDM 007-1 [i.6] A.1/2
3	CDM_PULL	ETSI GS CDM 007-1 [i.6] A.2/1.1
4	CDM_PUSH	ETSI GS CDM 007-1 [i.6] A.2/1.2
5	CDM_SUBSCRIBE	ETSI GS CDM 007-1 [i.6] A.2/1.3
6	CDM_FEEDBACK	ETSI GS CDM 007-1 [i.6] A.2/1.4
7	CDM_VESSEL_SERVICE	ETSI GS CDM 007-1 [i.6] A.3/2.11
8	CDM_ACTION_SERVICE	ETSI GS CDM 007-1 [i.6] A.3/2.1
9	CDM_ANOMALY_SERVICE	ETSI GS CDM 007-1 [i.6] A.3/2.2
10	CDM_CERTIFICATE_DOCUMENT_SERVICE	ETSI GS CDM 007-1 [i.6] A.3/2.3
11	CDM_INCIDENT_SERVICE	ETSI GS CDM 007-1 [i.6] A.3/2.4
12	CDM_IRREGULAR_MIGRATION_INCIDENT_SERVICE	ETSI GS CDM 007-1 [i.6] A.3/2.5
13	CDM_LAW_INFRINGEMENT_INCIDENT_SERVICE	ETSI GS CDM 007-1 [i.6] A.3/2.6
14	CDM_METEO_OCEANOGRAPHIC_CONDITION_SERVICE	ETSI GS CDM 007-1 [i.6] A.3/2.7
15	CDM_ORGANIZATION_SERVICE	ETSI GS CDM 007-1 [i.6] A.3/2.8

N.	Mnemonic	PICS item
16	CDM_RISK_SERVICE	ETSI GS CDM 007-1 [i.6] A.3/2.9
17	CDM_CARGO_SERVICE	ETSI GS CDM 007-1 [i.6] A.3/2.10

6.2 EI NA Interface

6.2.1 Pull Request

6.2.1.1 Vessel service

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BV_01_01"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a PullRequest for Vessel service - no Acknowledgment required
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_VESSEL_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value vesselService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value vesselService, Payload containing Vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE, PullType indicating value Request, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull,</pre>	

```

    Recipient containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull,
      AckCode indicating value Success,
      Signature indicating value any_value
    to the ADAPTOR entity
  }
}

```

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BV_01_02"
Test Objective	Check that the IUT sends a PullResponse before response timeout expiry when receiving a PullRequest with timeout on response - no Acknowledgment required
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_VESSEL_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value vesselService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value vesselService, Payload containing Vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE, PullType indicating value Request, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR and </pre>	

```

the IUT sendsBeforeResponseTimerExpiry a HTTP_RESPONSE containing
status_code set to "200 OK",
body containing
vPullResponse containing
  MessageID indicating value MESSAGE_ID,
  CorrelationID indicating value CORRELATION_ID,
  CreationDateTime indicating value CURRENT_TIME,
  Priority indicating value PRIORITY,
  RequiresAck indicating value false,
  Sender containing
    ServiceID indicating value SERVICE_ID,
    ServiceOperation indicating value Pull,
    ServiceType indicating value vesselService,
  Recipient containing
    ServiceID indicating value SERVICE_ID,
    ServiceOperation indicating value Pull,
    ServiceType indicating value vesselService,
  Payload containing
    vessel containing
      IMONumber indicating value VESSEL_IMO_NUMBER,
      Name indicating value VESSEL_NAME,
      Location indicating value VESSEL_LOCATION,
      ShipType indicating value VESSEL_SHIP_TYPE,
      ResultCode indicating value success,
      Signature indicating value any_value
to the ADAPTOR entity
}
}

```

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BV_01_03"
Test Objective	Check that the IUT responds with an HTTP 200 OK PullResponse response with a ResultCode 'InvalidRequestObject' when receiving a PullRequest for a unknown vessel
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_VESSEL_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT not havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value vesselService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing Vessel indicating value empty, PullType indicating value Request, DiscoveryProfiles containing country indicating value COUNTRY, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing </pre>	

```

status_code set to "200 OK"
body containing
  vAcknowledgment containing
    MessageID indicating value MESSAGE_ID,
    CorrelationID indicating value CORRELATION_ID,
    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    Sender containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull,
    Recipient containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull,
    AckCode indicating value Success,
    Signature indicating value any_value
to the ADAPTOR and
the IUT sendsBeforeResponseTimerExpiry a HTTP_RESPONSE containing
  status_code set to "200 OK",
  body containing
    vPullResponse containing
      MessageID indicating value MESSAGE_ID,
      CorrelationID indicating value CORRELATION_ID,
      CreationDateTime indicating value CURRENT_TIME,
      Priority indicating value PRIORITY,
      RequiresAck indicating value false,
      Sender containing
        ServiceID indicating value SERVICE_ID,
        ServiceType indicating value vesselService,
        ServiceOperation indicating value Pull,
      Recipient containing
        ServiceID indicating value SERVICE_ID,
        ServiceType indicating value vesselService,
        ServiceOperation indicating value Pull,
      Payload containing
        vessel containing
          IMONumber indicating value VESSEL_IMO_NUMBER,
          Name indicating value VESSEL_NAME,
          Location indicating value VESSEL_LOCATION,
          ShipType indicating value VESSEL_SHIP_TYPE,
          ResultCode indicating value InvalidRequestObject,
          Signature indicating value any_value
to the ADAPTOR entity
}
}

```

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BV_01_04"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a PullRequest with filter - no Acknowledgment required
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_VESSEL_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT not havingRegistered several vessel containing VESSEL_1 containing IMONumber indicating value VESSEL_IMO_NUMBER_1, Name indicating value VESSEL_NAME_1, Location indicating value VESSEL_LOCATION_1, ShipType indicating value VESSEL_SHIP_TYPE_1, NetTonnage indicating value VESSEL_NET_TONNAGE_GREATHER_THAN, VESSEL_2 containing IMONumber indicating value VESSEL_IMO_NUMBER_2, Name indicating value VESSEL_NAME_2, Location indicating value VESSEL_LOCATION_2, ShipType indicating value VESSEL_SHIP_TYPE_2, NetTonnage indicating value VESSEL_NET_TONNAGE_LESS_THAN } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, </pre>	

```

body containing
  vPullRequest containing
    MessageID indicating value MESSAGE_ID,
    CorrelationID indicating value CORRELATION_ID,
    CreationDateTime indicating value CURRENT_TIME,
    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    Sender containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull,
      ServiceType indicating value vesselService,
    Recipient containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull,
      ServiceType indicating value vesselService,
    Payload containing
      Vessel containing
        IMONumber indicating value VESSEL_IMO_NUMBER_1,
        Name indicating value VESSEL_NAME_1,
        Location indicating value VESSEL_LOCATION_1,
        ShipType indicating value VESSEL_SHIP_TYPE_1,
        NetTonnage indicating value VESSEL_NET_TONNAGE_1,
      PayloadSelector containing
        Selectors containing // Vessels with tonnage > VESSEL_NET_TONNAGE
        Selector indicating value "//Vessel[1]/NetTonnage",
        Operator indicating value GREATER_THAN,
      PullType indicating value Request,
      ResponseTimeout indicating value RESPONSE_TIMEOUT,
      Signature indicating value any_value
  from the ADAPTOR entity
}
then {
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "200 OK"
    body containing
      vAcknowledgment containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        Sender containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        Recipient containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        AckCode indicating value Success,
        Signature indicating value any_value
  to the ADAPTOR and
  the IUT sendsBeforeResponseTimerExpiry a HTTP_RESPONSE containing
    status_code set to "200 OK",
    body containing
      vPullResponse containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        CreationDateTime indicating value CURRENT_TIME,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        Sender containing
          ServiceID indicating value SERVICE_ID,
          ServiceType indicating value vesselService,
          ServiceOperation indicating value Pull,
        Recipient containing
          ServiceID indicating value SERVICE_ID,
          ServiceType indicating value vesselService,
          ServiceOperation indicating value Pull,
        Payload containing
          vessel containing
            IMONumber indicating value VESSEL_IMO_NUMBER_1,
            Name indicating value VESSEL_NAME_1,
            Location indicating value VESSEL_LOCATION_1,
            ShipType indicating value VESSEL_SHIP_TYPE_1,
            ResultCode indicating value success,
            Signature indicating value any_value
  to the ADAPTOR entity
}
}

```

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BO_01_01"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response and an error code when receiving an inconsistent PullRequest
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_VESSEL_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value vesselService, ServiceOperation indicating value Push, // Push instead of pull Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value vesselService, ServiceOperation indicating value Push, // Push instead of pull not Payload, PullType indicating value Request, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value InvalidRequestObject, Signature indicating value any_value to the ADAPTOR entity } } }</pre>	

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BO_01_02"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response and an error code when receiving a PullRequest with an inconsistent Service Operation type
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_VESSEL_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION,</pre>	

<pre> ShipType indicating value VESSEL_SHIP_TYPE } </pre>
Expected Behaviour
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value vesselService, ServiceOperation indicating value Push, // Inconsistent Service Operation type Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value vesselService, ServiceOperation indicating value Pull, Payload containing Vessel containing IMONumber indicating value VESSEL_IMO_NUMBER_1, Name indicating value VESSEL_NAME_1, Location indicating value VESSEL_LOCATION_1, ShipType indicating value VESSEL_SHIP_TYPE_1, NetTonnage indicating value VESSEL_NET_TONNAGE_1, PullType indicating value Request, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value InvalidRequestObject, Signature indicating value any_value to the ADAPTOR entity } } } } </pre>

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BO_01_03"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response and an error code when receiving a PullRequest with an unknown serviceID
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_VESSEL_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, </pre>	

```

CreationDateTime indicating value CURRENT_TIME,
Priority indicating value PRIORITY,
RequiresAck indicating value false,
Sender containing
  ServiceID indicating value SERVICE_ID_UNKNOWN, // Unknown service ID
  ServiceOperation indicating value Pull,
  ServiceType indicating value vesselService,
Recipient containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value Pull,
  ServiceType indicating value vesselService,
Payload containing
  Vessel containing
    IMONumber indicating value VESSEL_IMO_NUMBER_1,
    Name indicating value VESSEL_NAME_1,
    Location indicating value VESSEL_LOCATION_1,
    ShipType indicating value VESSEL_SHIP_TYPE_1,
    NetTonnage indicating value VESSEL_NET_TONNAGE_1,
  PullType indicating value Request,
  ResponseTimeOut indicating value RESPONSE_TIMEOUT,
  Signature indicating value any_value
from the ADAPTOR entity
}
then {
  the IUT sends a HTTP_RESPONSE containing
  status_code set to "200 OK"
  body containing
  vAcknowledgment containing
    MessageID indicating value MESSAGE_ID,
    CorrelationID indicating value CORRELATION_ID,
    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    AckCode indicating value serviceTypeNotSupported,
    Signature indicating value any_value
  to the ADAPTOR entity
}
}

```

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BO_01_04"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response and an error code when receiving a PullRequest with a date/time far in past (one month late)
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_VESSEL_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME - 30 days, // Date/time far in past one month late Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value vesselService, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value vesselService, </pre>	

```

    ServiceOperation indicating value Pull,
    Payload containing
    Vessel containing
      IMONumber indicating value VESSEL_IMO_NUMBER_1,
      Name indicating value VESSEL_NAME_1,
      Location indicating value VESSEL_LOCATION_1,
      ShipType indicating value VESSEL_SHIP_TYPE_1,
      NetTonnage indicating value VESSEL_NET_TONNAGE_1,
    PullType indicating value Request,
    ResponseTimeout indicating value RESPONSE_TIMEOUT,
    Signature indicating value any_value
  from the ADAPTOR entity
}
then {
  the IUT sends a HTTP_RESPONSE containing
  status_code set to "200 OK"
  body containing
  vAcknowledgment containing
    MessageID indicating value MESSAGE_ID,
    CorrelationID indicating value CORRELATION_ID,
    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    AckCode indicating value timestampError,
    Signature indicating value any_value
  to the ADAPTOR entity
}
}

```

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BO_01_05"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response and an error code when receiving a PullRequest with a date/time far in future (one month)
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_VESSEL_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME - 30 days, // Date/time far in future one month Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value vesselService, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value vesselService, ServiceOperation indicating value Pull, Payload containing Vessel containing IMONumber indicating value VESSEL_IMO_NUMBER_1, Name indicating value VESSEL_NAME_1, Location indicating value VESSEL_LOCATION_1, ShipType indicating value VESSEL_SHIP_TYPE_1, NetTonnage indicating value VESSEL_NET_TONNAGE_1, PullType indicating value Request, ResponseTimeout indicating value RESPONSE_TIMEOUT, </pre>	

```

        Signature indicating value any_value
    from the ADAPTOR entity
}
then {
    the IUT sends a HTTP_RESPONSE containing
        status_code set to "200 OK"
        body containing
            vAcknowledgment containing
                MessageID indicating value MESSAGE_ID,
                CorrelationID indicating value CORRELATION_ID,
                Priority indicating value PRIORITY,
                RequiresAck indicating value false,
                AckCode indicating value timestampError,
                Signature indicating value any_value
            to the ADAPTOR entity
}
}

```

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BO_01_06"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response and an error code when receiving a PullRequest with an invalid filter (Selector entry does not exist)
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_VESSEL_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT not havingRegistered several vessel containing VESSEL_1 containing IMONumber indicating value VESSEL_IMO_NUMBER_1, Name indicating value VESSEL_NAME_1, Location indicating value VESSEL_LOCATION_1, ShipType indicating value VESSEL_SHIP_TYPE_1, NetTonnage indicating value VESSEL_NET_TONNAGE_GREATHER_THAN, VESSEL_2 containing IMONumber indicating value VESSEL_IMO_NUMBER_2, Name indicating value VESSEL_NAME_2, Location indicating value VESSEL_LOCATION_2, ShipType indicating value VESSEL_SHIP_TYPE_2, NetTonnage indicating value VESSEL_NET_TONNAGE_LESS_THAN } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value vesselService, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value vesselService, ServiceOperation indicating value Pull, Payload containing Vessel containing IMONumber indicating value VESSEL_IMO_NUMBER_1, Name indicating value VESSEL_NAME_1, Location indicating value VESSEL_LOCATION_1, ShipType indicating value VESSEL_SHIP_TYPE_1, NetTonnage indicating value VESSEL_NET_TONNAGE_1, PayloadSelector containing Selectors containing // Vessels with tonnage > VESSEL_NET_TONNAGE Selector indicating value "//Vessel[2]/NetTonnage", // Selector does not exist Operator indicating value GREATER_THAN, PullType indicating value Request, </pre>	

```

        ResponseTimeout indicating value RESPONSE_TIMEOUT,
        Signature indicating value any_value
    from the ADAPTOR entity
}
then {
    the IUT sends a HTTP_RESPONSE containing
    status_code set to "200 OK"
    body containing
    vAcknowledgment containing
    MessageID indicating value MESSAGE_ID,
    CorrelationID indicating value CORRELATION_ID,
    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    AckCode indicating value badRequest,
    Signature indicating value any_value
    to the ADAPTOR entity
}
}

```

6.2.1.2 Action service

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BV_02_01"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a PullRequest for ActionService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.3 Action Core Entity ETSI GS CDM 005 [2], clause 7.1.10 Location Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_ACTION_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value actionService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value actionService, Payload containing Action containing ActionType indicating value "Rescue", ActionStatus indicating value "InProgress", Mission indicating value nonSpecified, Priority indicating value High, Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER, PullType indicating value Request, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } } </pre>	

```

then {
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "200 OK"
    body containing
      vAcknowledgment containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        Sender containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        Recipient containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        AckCode indicating value Success,
        Signature indicating value any_value
    to the ADAPTOR entity
}

```

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BV_02_02"
Test Objective	Check that the IUT sends a PullResponse before response timeout expiry when receiving a PullRequest with timeout on response
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.3 Action Core Entity ETSI GS CDM 005 [2], clause 7.1.10 Location Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_ACTION_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value actionService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value actionService, Payload containing Action containing ActionType indicating value "Rescue", ActionStatus indicating value "InProgress", Mission indicating value "Any", // FIXME Priority indicating value High, Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER, PullType indicating value Request, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } } } then { </pre>	

```

the IUT sends a HTTP_RESPONSE containing
  status_code set to "200 OK"
  body containing
    vAcknowledgment containing
      MessageID indicating value MESSAGE_ID,
      CorrelationID indicating value CORRELATION_ID,
      Priority indicating value PRIORITY,
      RequiresAck indicating value false,
      Sender containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value Pull,
      Recipient containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value Pull,
      AckCode indicating value Success,
      Signature indicating value any_value
to the ADAPTOR and
the IUT sendsBeforeResponseTimerExpiry a HTTP_RESPONSE containing
  status_code set to "200 OK",
  body containing
    vPullResponse containing
      MessageID indicating value MESSAGE_ID,
      CorrelationID indicating value CORRELATION_ID,
      CreationDateTime indicating value CURRENT_TIME,
      Priority indicating value PRIORITY,
      RequiresAck indicating value false,
      Sender containing
        ServiceID indicating value SERVICE_ID,
        ServiceType indicating value actionService,
        ServiceOperation indicating value Pull,
      Recipient containing
        ServiceID indicating value SERVICE_ID,
        ServiceType indicating value actionService,
        ServiceOperation indicating value Pull,
      Payload containing
        Vessel containing
          IMONumber indicating value VESSEL_IMO_NUMBER,
          ResultCode indicating value success,
          Signature indicating value any_value
to the ADAPTOR entity
}
}

```

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BO_02_01"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response and an error code when receiving a PullRequest with inconsistent Location
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.3 Action Core Entity ETSI GS CDM 005 [2], clause 7.1.10 Location Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_ACTION_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing </pre>	

```

ServiceID indicating value SERVICE_ID,
ServiceOperation indicating value Pull,
ServiceType indicating value actionService,
Recipient containing
  ServiceID indicating value SERVICE_ID,
  ServiceType indicating value actionService,
  ServiceOperation indicating value Pull,
Payload containing
  Action containing
    ActionType indicating value "Rescue",
    ActionStatus indicating value "InProgress",
    Mission indicating value "Any", // FIXME
    Priority indicating value High,
    Location indicating value VESSEL_INCONSISTENT_LOCATION, // Inconsistent Location
such as another sea bassin
  Agent containing
    identifier indicating value AGENT_IDENTIFIER,
    PullType indicating value Request,
    ResponseTimeout indicating value RESPONSE_TIMEOUT,
    Signature indicating value any_value
from the ADAPTOR entity
}
then {
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "200 OK"
    body containing
      vAcknowledgment containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        Sender containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
          Recipient containing
            ServiceID indicating value SERVICE_ID,
            ServiceOperation indicating value Pull,
            Payload containing
              Vessel containing
                IMONumber indicating value VESSEL_IMO_NUMBER,
                AckCode indicating value InvalidRequestObject,
                Signature indicating value any_value
to the ADAPTOR entity
}
}

```

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BO_02_02"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response and an error code when receiving a PullRequest with inconsistent Involved agent
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.3 Action Core Entity ETSI GS CDM 005 [2], clause 7.1.10 Location Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_ACTION_SERVICE
Initial Conditions	
<pre> with { the IUT isIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, </pre>	


```

Priority indicating value PRIORITY,
RequiresAck indicating value false,
Sender containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value Pull,
  ServiceType indicating value actionService,
Recipient containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value Pull,
  ServiceType indicating value actionService,
Payload containing
  Action containing
    ActionType indicating value "Rescue",
    ActionStatus indicating value "InProgress",
    Mission indicating value "Any", // FIXME
    Priority indicating value High,
    Location indicating value VESSE_LOCATION,
    Agent containing
      identifier indicating value AGENT_UNKNOWN_IDENTIFIER, // Inconsistent Involved
agent
  PullType indicating value Request,
  ResponseTimeout indicating value RESPONSE_TIMEOUT,
  Signature indicating value any_value
from the ADAPTOR entity
}
then {
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "200 OK"
  body containing
    vAcknowledgment containing
      MessageID indicating value MESSAGE_ID,
      CorrelationID indicating value CORRELATION_ID,
      Priority indicating value PRIORITY,
      RequiresAck indicating value false,
      Sender containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value Pull,
      Recipient containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value Pull,
      Payload containing
        Vessel containing
          IMONumber indicating value VESSEL_IMO_NUMBER,
          AckCode indicating value InvalidRequestObject,
          Signature indicating value any_value
    to the ADAPTOR entity
}
}

```

6.2.1.3 Anomaly service

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BV_03"
Test Objective	Check that the IUT sends a PullResponse before response timeout expiry when receiving a PullRequest with timeout on response
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.5 Anomaly Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_ANOMALY_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, </pre>	

```

body containing
  vPullRequest containing
    MessageID indicating value MESSAGE_ID,
    CorrelationID indicating value CORRELATION_ID,
    CreationDateTime indicating value CURRENT_TIME,
    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    Sender containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull,
      ServiceType indicating value anomalyService,
    Recipient containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull,
      ServiceType indicating value anomalyService,
    Payload containing
      Anomaly containing
        AnomalyType indicating value "VesselOutOfTrafficLanes",
        NatureType indicating value "Observed",
        Location indicating value VESSEL_LOCATION,
        Agent containing
          identifier indicating value AGENT_IDENTIFIER,
        PullType indicating value Request,
        ResponseTimeout indicating value RESPONSE_TIMEOUT,
        Signature indicating value any_value
  from the ADAPTOR entity
}
then {
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "200 OK"
    body containing
      vAcknowledgment containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        Sender containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        Recipient containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        AckCode indicating value Success,
        Signature indicating value any_value
  to the ADAPTOR and
  the IUT sendsBeforeResponseTimerExpiry a HTTP_RESPONSE containing
    status_code set to "200 OK",
    body containing
      vPullResponse containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        CreationDateTime indicating value CURRENT_TIME,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        Sender containing
          ServiceID indicating value SERVICE_ID,
          ServiceType indicating value anomalyService,
          ServiceOperation indicating value Pull,
        Recipient containing
          ServiceID indicating value SERVICE_ID,
          ServiceType indicating value anomalyService,
          ServiceOperation indicating value Pull,
        Payload containing
          Vessel containing
            IMONumber indicating value VESSEL_IMO_NUMBER,
            ResultCode indicating value success,
            Signature indicating value any_value
  to the ADAPTOR entity
}
}

```

6.2.1.4 CertificateDocument service

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BV_04"
Test Objective	Check that the IUT sends a PullResponse before response timeout expiry when receiving a PullRequest with timeout on response
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.7 Document Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_CERTIFICATE_DOCUMENT_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value certificateDocumentService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value certificateDocumentService, Payload containing Document containing Content indicating value RAW_DOCUMENT, Hash indicating value SHA_256_RAW_DOCUMENT, ReferenceURI indicating value REFERENCE_URI, Location indicating value VESSEL_LOCATION, PullType indicating value Request, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value certificateDocumentService, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value certificateDocumentService, ServiceOperation indicating value Pull, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR and the IUT sendsBeforeResponseTimerExpiry a HTTP_RESPONSE containing status_code set to "200 OK", body containing vPullResponse containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID,</pre>	

```

CreationDateTime indicating value CURRENT_TIME,
Priority indicating value PRIORITY,
RequiresAck indicating value false,
Sender containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value Pull,
Recipient containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value Pull,
Payload containing
  Vessel containing
    IMONumber indicating value VESSEL_IMO_NUMBER,
  ResultCode indicating value success,
  Signature indicating value any_value
to the ADAPTOR entity
}
}

```

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BO_04"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a PullRequest with a vessel document certificate with an invalid Integrity Check
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.7 Document Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_CERTIFICATE_DOCUMENT_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value certificateDocumentService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value certificateDocumentService, ServiceOperation indicating value Pull, Payload containing Document containing Content indicating value RAW_DOCUMENT, Hash indicating value SHA_256_RAW_DOCUMENT_CORRUPTED, // Invalid Integrity Check ReferenceURI indicating value REFERENCE_URI, Location indicating value VESSEL_LOCATION, PullType indicating value Request, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, </pre>	

```

Sender containing
  ServiceID indicating value SERVICE_ID,
  ServiceType indicating value certificateDocumentService,
  ServiceOperation indicating value Pull,
Recipient containing
  ServiceID indicating value SERVICE_ID,
  ServiceType indicating value certificateDocumentService,
  ServiceOperation indicating value Pull,
Payload containing
  Vessel containing
    IMONumber indicating value VESSEL_IMO_NUMBER,
  AckCode indicating value BadRequest,
  Signature indicating value any_value
to the ADAPTOR entity
}
}

```

6.2.1.5 Incident service

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BV_05"
Test Objective	Check that the IUT sends a PullResponse before response timeout expiry when receiving a PullRequest with timeout on response
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_INCIDENT_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value incidentService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value incidentService, Payload containing Incident containing Identifier containing GeneratedIn indicating value any_value, UUID indicating value any_value, SickAnimalOnBoard indicating value "true", // Add test for the other features UrgencyType indicating value "Immediate", SeverityType indicating value "Moderate", Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER, PullType indicating value Request, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } } then { </pre>	

```

the IUT sends a HTTP_RESPONSE containing
  status_code set to "200 OK"
  body containing
    vAcknowledgment containing
      MessageID indicating value MESSAGE_ID,
      CorrelationID indicating value CORRELATION_ID,
      Priority indicating value PRIORITY,
      RequiresAck indicating value false,
      Sender containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value Pull,
      Recipient containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value Pull,
      AckCode indicating value Success,
      Signature indicating value any_value
to the ADAPTOR and
the IUT sendsBeforeResponseTimerExpiry a HTTP_RESPONSE containing
  status_code set to "200 OK",
  body containing
    vPullResponse containing
      MessageID indicating value MESSAGE_ID,
      CorrelationID indicating value CORRELATION_ID,
      CreationDateTime indicating value CURRENT_TIME,
      Priority indicating value PRIORITY,
      RequiresAck indicating value false,
      Sender containing
        ServiceID indicating value SERVICE_ID,
        ServiceType indicating value incidentService,
        ServiceOperation indicating value Pull,
      Recipient containing
        ServiceID indicating value SERVICE_ID,
        ServiceType indicating value incidentService,
        ServiceOperation indicating value Pull,
      Payload containing
        Vessel containing
          IMONumber indicating value VESSEL_IMO_NUMBER,
          ResultCode indicating value success,
          Signature indicating value any_value
to the ADAPTOR entity
}
}

```

6.2.1.6 IrregularInfringementIncident service

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BV_06"
Test Objective	Check the IUT sends a PullResponse before response timeout expiry when receiving a PullRequest with an IrregularMigrationIncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_IRREGULAR_MIGRATION_INCIDENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY,	

```

RequiresAck indicating value false,
Sender containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value Pull,
  ServiceType indicating value irregularMigrationIncidentService,
Recipient containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value Pull,
  ServiceType indicating value irregularMigrationIncidentService,
Payload containing
  IrregularMigrationIncident containing
    identifier indicating value any_value,
    UrgencyType indicating value "Immediate",
    IrregularMigrationIncidentType indicating value "nonSpecified",
    Location indicating value VESSEL_LOCATION,
    Agent containing
      identifier indicating value AGENT_IDENTIFIER,
    PullType indicating value Request,
    ResponseTimeout indicating value RESPONSE_TIMEOUT,
    Signature indicating value any_value
from the ADAPTOR entity
}
then {
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "200 OK"
    body containing
      vAcknowledgment containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        Sender containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        Recipient containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        AckCode indicating value Success,
        Signature indicating value any_value
to the ADAPTOR and
the IUT sendsBeforeResponseTimerExpiry a HTTP_RESPONSE containing
  status_code set to "200 OK",
  body containing
    vPullResponse containing
      MessageID indicating value MESSAGE_ID,
      CorrelationID indicating value CORRELATION_ID,
      CreationDateTime indicating value CURRENT_TIME,
      Priority indicating value PRIORITY,
      RequiresAck indicating value false,
      Sender containing
        ServiceID indicating value SERVICE_ID,
        ServiceType indicating value irregularMigrationIncidentService,
        ServiceOperation indicating value Pull,
      Recipient containing
        ServiceID indicating value SERVICE_ID,
        ServiceType indicating value irregularMigrationIncidentService,
        ServiceOperation indicating value Pull,
      Payload containing
        Vessel containing
          IMONumber indicating value VESSEL_IMO_NUMBER,
          ResultCode indicating value success,
          Signature indicating value any_value
to the ADAPTOR entity
}
}

```

6.2.1.7 LawInfringementIncident service

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BV_07"
Test Objective	Check the IUT sends a PullResponse before response timeout expiry when receiving a PullRequest with a LawInfringementIncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_LAW_INFRINGEMENT_INCIDENT_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value lawInfringementIncidentService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value lawInfringementIncidentService, Payload containing LawInfringementIncident containing identifier indicating value any_value, UrgencyType indicating value "Immediate", LawInfringementIncidentType indicating value "nonSpecified", Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER, PullType indicating value Request, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR and the IUT sendsBeforeResponseTimerExpiry a HTTP_RESPONSE containing status_code set to "200 OK", body containing vPullResponse containing MessageID indicating value MESSAGE_ID,</pre>	


```

CorrelationID indicating value CORRELATION_ID,
CreationDateTime indicating value CURRENT_TIME,
Priority indicating value PRIORITY,
RequiresAck indicating value false,
Sender containing
  ServiceID indicating value SERVICE_ID,
  ServiceType indicating value lawInfringementIncidentService,
  ServiceOperation indicating value Pull,
Recipient containing
  ServiceID indicating value SERVICE_ID,
  ServiceType indicating value lawInfringementIncidentService,
  ServiceOperation indicating value Pull,
Payload containing
  Vessel containing
    IMONumber indicating value VESSEL_IMO_NUMBER,
  ResultCode indicating value success,
  Signature indicating value any_value
to the ADAPTOR entity
}
}

```

6.2.1.8 MeteoOceanographicCondition service

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BV_08"
Test Objective	Check that the IUT sends a PullResponse before response timeout expiry when receiving a PullRequest for an ongoing meteo condition
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.10.2.2 MeteoOceanographicCondition Class ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_METEO_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value meteoOceanographicConditionService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value meteoOceanographicConditionService, Payload containing MeteoOceanographicCondition containing AirTemperature indicating value any_value, WindCurrentDirection indicating value any_value, WindCurrentSpeed indicating value any_value, Location indicating value VESSEL_LOCATION, PullType indicating value Request, ResponseTimeOut indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing </pre>	

```

status_code set to "200 OK"
body containing
  vAcknowledgment containing
    MessageID indicating value MESSAGE_ID,
    CorrelationID indicating value CORRELATION_ID,
    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    Sender containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull,
    Recipient containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull,
    AckCode indicating value Success,
    Signature indicating value any_value
to the ADAPTOR and
the IUT sendsBeforeResponseTimerExpiry a HTTP_RESPONSE containing
  status_code set to "200 OK",
  body containing
    vPullResponse containing
      MessageID indicating value MESSAGE_ID,
      CorrelationID indicating value CORRELATION_ID,
      CreationDateTime indicating value CURRENT_TIME,
      Priority indicating value PRIORITY,
      RequiresAck indicating value false,
      Sender containing
        ServiceID indicating value SERVICE_ID,
        ServiceType indicating value meteoOceanographicConditionService,
        ServiceOperation indicating value Pull,
      Recipient containing
        ServiceID indicating value SERVICE_ID,
        ServiceType indicating value meteoOceanographicConditionService,
        ServiceOperation indicating value Pull,
      Payload containing
        Vessel containing
          IMONumber indicating value VESSEL_IMO_NUMBER,
          ResultCode indicating value success,
          Signature indicating value any_value
to the ADAPTOR entity
}
}

```

6.2.1.9 Organization service

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BV_09"
Test Objective	Check that the IUT sends a PullResponse before response timeout expiry when receiving a PullRequest for an organization
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.15.2.1 Organization Class (subclass of Agent) ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_ORGANIZATION_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, </pre>	

```

Sender containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value Pull,
  ServiceType indicating value organizationService,
Recipient containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value Pull,
  ServiceType indicating value organizationService,
Payload containing
  Organization containing
    Identifier indicating value any_value,
    OrganizationRole indicating value "portAuthority",
    Location indicating value VESSEL_LOCATION
  Agent containing
    identifier indicating value AGENT_IDENTIFIER,
  PullType indicating value Request,
  ResponseTimeout indicating value RESPONSE_TIMEOUT,
  Signature indicating value any_value
from the ADAPTOR entity
}
then {
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "200 OK"
    body containing
      vAcknowledgment containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        Sender containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        Recipient containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
          AckCode indicating value Success,
          Signature indicating value any_value
      to the ADAPTOR and
      the IUT sendsBeforeResponseTimerExpiry a HTTP_RESPONSE containing
        status_code set to "200 OK",
        body containing
          vPullResponse containing
            MessageID indicating value MESSAGE_ID,
            CorrelationID indicating value CORRELATION_ID,
            CreationDateTime indicating value CURRENT_TIME,
            Priority indicating value PRIORITY,
            RequiresAck indicating value false,
            Sender containing
              ServiceID indicating value SERVICE_ID,
              ServiceType indicating value organizationService,
              ServiceOperation indicating value Pull,
            Recipient containing
              ServiceID indicating value SERVICE_ID,
              ServiceType indicating value organizationService,
              ServiceOperation indicating value Pull,
            Payload containing
              Organization containing
                AnyField indicating value any_value, // FIXME Which are the fields returned here
                ResultCode indicating value success,
                Signature indicating value any_value
            to the ADAPTOR entity
          }
        }
}

```

6.2.1.10 Risk service

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BV_10"
Test Objective	Check that the IUT sends a PullResponse before response timeout expiry when receiving a PullRequest for ongoing risk
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.18 Risk Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniquelIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_RISK_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value riskService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value riskService, Payload containing Risk containing Identifier indicating value any_value, RiskLevel indicating value high, RiskProbability indicating value probable, RiskSeverity indicating value critical, Location indicating value VESSEL_LOCATION Agent containing identifier indicating value AGENT_IDENTIFIER, PullType indicating value Request, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR and the IUT sendsBeforeResponseTimerExpiry a HTTP_RESPONSE containing status_code set to "200 OK", body containing vPullResponse containing</pre>	

```

MessageID indicating value MESSAGE_ID,
CorrelationID indicating value CORRELATION_ID,
CreationDateTime indicating value CURRENT_TIME,
Priority indicating value PRIORITY,
RequiresAck indicating value false,
Sender containing
  ServiceID indicating value SERVICE_ID,
  ServiceType indicating value riskService,
  ServiceOperation indicating value Pull,
Recipient containing
  ServiceID indicating value SERVICE_ID,
  ServiceType indicating value riskService,
  ServiceOperation indicating value Pull,
Payload containing
  Organization containing
    AnyField indicating value any_value, // FIXME Which are the fields returned here
  ResultCode indicating value success,
  Signature indicating value any_value
to the ADAPTOR entity
}
}

```

6.2.1.11 Cargo service

TP Id	"TP_CDM_NODE_EI_NA_PULL_REQ_BV_11"
Test Objective	Check that the IUT sends a PullResponse before reponse timeout expiry when receiving a PullRequest for a cargo
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_CARGO_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value cargoService, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value cargoService, ServiceOperation indicating value Pull, Payload containing Cargo containing CargoType indicating value CARGO_TYPE, PullType indicating value Request, DiscoveryProfiles containing SeaBasin indicating value SEA_BASIN, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing </pre>	

```

        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value Pull,
        Recipient containing
            ServiceID indicating value SERVICE_ID,
            ServiceOperation indicating value Pull,
            AckCode indicating value Success,
            Signature indicating value any_value
    to the ADAPTOR and
    the IUT sends a HTTP_RESPONSE containing
        status_code set to "200 OK"
        body containing
            vPullResponse containing
                MessageID indicating value MESSAGE_ID,
                CorrelationID indicating value CORRELATION_ID,
                CreationDateTime indicating value CURRENT_TIME,
                Priority indicating value PRIORITY,
                RequiresAck indicating value false,
                Sender containing
                    ServiceID indicating value SERVICE_ID,
                    ServiceType indicating value cargoService,
                    ServiceOperation indicating value Pull,
                Recipient containing
                    ServiceID indicating value SERVICE_ID,
                    ServiceType indicating value cargoService,
                    ServiceOperation indicating value Pull,
                Payload containing
                    Cargo containing
                        CargoType indicating value CARGO_TYPE,
                    ResultCode indicating value success,
                    Signature indicating value any_value
    to the ADAPTOR entity
}
}

```

6.2.2 Pull Request multicast

6.2.2.1 Vessel service

TP Id	"TP_CDM_NODE_EI_NA_MULTI_PULL_REQ_BV_01"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving multiple PullRequest for Vessel service - no Acknowledgment required
Reference	ETSI GS CDM 004 [1], clause 5.4.3 Multicast Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_VESSEL_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE }	
Expected Behaviour	
ensure that { when { the IUT receives several vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value vesselService, Recipient containing	

```

    ServiceID indicating value SERVICE_ID,
    ServiceOperation indicating value Pull,
    Payload containing
      Vessel containing
        IMONumber indicating value VESSEL_IMO_NUMBER,
        Name indicating value VESSEL_NAME,
        Location indicating value VESSEL_LOCATION,
        ShipType indicating value VESSEL_SHIP_TYPE,
        PullType indicating value Request,
        ResponseTimeout indicating value RESPONSE_TIMEOUT,
        Signature indicating value any_value
  }
  then {
    the IUT sends multiple HTTP_RESPONSE containing
      status_code set to "200 OK"
      body containing
        vAcknowledgment containing
          MessageID indicating value MESSAGE_ID,
          CorrelationID indicating value CORRELATION_ID,
          Priority indicating value PRIORITY,
          RequiresAck indicating value false,
          Sender containing
            ServiceID indicating value SERVICE_ID,
            ServiceOperation indicating value Pull,
          Recipient containing
            ServiceID indicating value SERVICE_ID,
            ServiceOperation indicating value Pull,
            AckCode indicating value Success,
            Signature indicating value any_value and
        the IUT sendsBeforeResponseTimerExpiry a HTTP_RESPONSE containing
          status_code set to "200 OK",
          body containing
            vPullResponse containing
              MessageID indicating value MESSAGE_ID,
              CorrelationID indicating value CORRELATION_ID,
              CreationDateTime indicating value CURRENT_TIME,
              Priority indicating value PRIORITY,
              RequiresAck indicating value false,
              Sender containing
                ServiceID indicating value SERVICE_ID_nn,
                ServiceOperation indicating value Pull,
              Recipient containing
                ServiceID indicating value SERVICE_ID_nn,
                ServiceOperation indicating value Pull,
              Payload containing
                vessel containing
                  IMONumber indicating value VESSEL_IMO_NUMBER,
                  Name indicating value VESSEL_NAME,
                  Location indicating value VESSEL_LOCATION,
                  ShipType indicating value VESSEL_SHIP_TYPE,
                  ResultCode indicating value success,
                  Signature indicating value any_value
            }
  }
}

```

6.2.2.2 Action service

TP Id	"TP_CDM_NODE_EI_NA_MULTI_PULL_REQ_BV_02"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a PullRequest for Action service - no Acknowledgment required
Reference	ETSI GS CDM 004 [1], clause 5.4.3 Multicast Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.3 Action Core Entity ETSI GS CDM 005 [2], clause 7.1.10 Location Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_ACTION_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT havingRegistered a action containing IMONumber indicating value ACTION_IMO_NUMBER, Name indicating value ACTION_NAME, Location indicating value ACTION_LOCATION,	

ShipType indicating value ACTION_SHIP_TYPE }
Expected Behaviour
<pre> ensure that { when { the IUT receives several vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID_nn, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID_nn, ServiceOperation indicating value Pull, ServiceType indicating value actionService, Recipient containing ServiceID indicating value SERVICE_ID_nn, ServiceOperation indicating value Pull, Payload containing Action containing ActionType indicating value "Rescue", ActionStatus indicating value "InProgress", Mission indicating value nonSpecified, Priority indicating value High, Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER, PullType indicating value Request, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value } } } then { the IUT sends multiple HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID_nn, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID_nn, ServiceOperation indicating value Pull, AckCode indicating value Success, Signature indicating value any_value and the IUT sendsBeforeResponseTimerExpiry a HTTP_RESPONSE containing status_code set to "200 OK", body containing vPullResponse containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing Vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, ResultCode indicating value success, Signature indicating value any_value } } } } } } </pre>

6.2.3 Pull Discovery

6.2.3.1 Vessel service

TP Id	"TP_CDM_NODE_EI_NA_PULL_DISC_BV_01"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a PullRequest with Vessel service discovery - no Acknowledgment required
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 5.5 CISE Discovery mechanism ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 004 [1], clause 8.1.7 Discover ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_NODE and CDM_VESSEL_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value vesselService, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR and the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vPullResponse containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID,</pre>	

```

    ServiceOperation indicating value Pull,
    Recipient containing
    ServiceID indicating value SERVICE_ID,
    ServiceOperation indicating value Pull,
    Payload containing
    vessel containing
    IMONumber indicating value VESSEL_IMO_NUMBER,
    Name indicating value VESSEL_NAME,
    Location indicating value VESSEL_LOCATION,
    ShipType indicating value VESSEL_SHIP_TYPE,
    ResultCode indicating value success,
    Signature indicating value any_value
  to the ADAPTOR entity
}
}

```

6.2.3.2 Action service

TP Id	"TP_CDM_NODE_EI_NA_PULL_DISC_BV_02"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a PullRequest with ActionService discovery - no Acknowledgment required
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 5.5 CISE Discovery mechanism ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 004 [1], clause 8.1.7 Discover ETSI GS CDM 005 [2], clause 7.1.3 Action Core Entity ETSI GS CDM 005 [2], clause 7.1.10 Location Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_ACTION_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value actionService, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, </pre>	

```

    Recipient containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull,
      AckCode indicating value Success,
      Signature indicating value any_value
to the ADAPTOR and
the IUT sends a HTTP_RESPONSE containing
  status_code set to "200 OK"
  body containing
    vPullResponse containing
      MessageID indicating value MESSAGE_ID,
      CorrelationID indicating value CORRELATION_ID,
      CreationDateTime indicating value CURRENT_TIME,
      Priority indicating value PRIORITY,
      RequiresAck indicating value false,
      Sender containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value Pull,
      Recipient containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value Pull,
      Payload containing
        vessel containing
          IMONumber indicating value VESSEL_IMO_NUMBER,
          Name indicating value VESSEL_NAME,
          Location indicating value VESSEL_LOCATION,
          ShipType indicating value VESSEL_SHIP_TYPE,
          ResultCode indicating value success,
          Signature indicating value any_value
to the ADAPTOR entity
}
}

```

6.2.3.3 Anomaly service

TP Id	"TP_CDM_NODE_EI_NA_PULL_DISC_BV_03"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a PullRequest with AnomalyService discovery - no Acknowledgment required
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 5.5 CISE Discovery mechanism ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 004 [1], clause 8.1.7 Discover ETSI GS CDM 005 [2], clause 7.1.5 Anomaly Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_ANOMALY_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value anomalyService,	

```

        ResponseTimeout indicating value RESPONSE_TIMEOUT,
        Signature indicating value any_value
    from the ADAPTOR entity
}
then {
    the IUT sends a HTTP_RESPONSE containing
        status_code set to "200 OK"
        body containing
            vAcknowledgment containing
                MessageID indicating value MESSAGE_ID,
                CorrelationID indicating value CORRELATION_ID,
                Priority indicating value PRIORITY,
                RequiresAck indicating value false,
                Sender containing
                    ServiceID indicating value SERVICE_ID,
                    ServiceOperation indicating value Pull,
                Recipient containing
                    ServiceID indicating value SERVICE_ID,
                    ServiceOperation indicating value Pull,
                AckCode indicating value Success,
                Signature indicating value any_value
    to the ADAPTOR and
    the IUT sends a HTTP_RESPONSE containing
        status_code set to "200 OK"
        body containing
            vPullResponse containing
                MessageID indicating value MESSAGE_ID,
                CorrelationID indicating value CORRELATION_ID,
                CreationDateTime indicating value CURRENT_TIME,
                Priority indicating value PRIORITY,
                RequiresAck indicating value false,
                Sender containing
                    ServiceID indicating value SERVICE_ID,
                    ServiceOperation indicating value Pull,
                Recipient containing
                    ServiceID indicating value SERVICE_ID,
                    ServiceOperation indicating value Pull,
                Payload containing
                    vessel containing
                        IMONumber indicating value VESSEL_IMO_NUMBER,
                        Name indicating value VESSEL_NAME,
                        Location indicating value VESSEL_LOCATION,
                        ShipType indicating value VESSEL_SHIP_TYPE,
                ResultCode indicating value success,
                Signature indicating value any_value
    to the ADAPTOR entity
}
}

```

6.2.3.4 CertificateDocument service

TP Id	"TP_CDM_NODE_EI_NA_PULL_DISC_BV_04"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a PullRequest with IncidentService discovery - no Acknowledgment required
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 5.5 CISE Discovery mechanism ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 004 [1], clause 8.1.7 Discover ETSI GS CDM 005 [2], clause 7.1.7 Document Core Entity
PICS Selection	IUT_CDM_NODE and CDM_CERTIFICATE_DOCUMENT_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing </pre>	

```

uri indicating value CDM_PULL_REQUEST_URI,
body containing
  vPullRequest containing
    MessageID indicating value MESSAGE_ID,
    CorrelationID indicating value CORRELATION_ID,
    CreationDateTime indicating value CURRENT_TIME,
    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    Sender containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull,
    PullType indicating value Discover,
    DiscoveryProfiles containing
      ServiceType indicating value certificateDocumentService,
      ResponseTimeOut indicating value RESPONSE_TIMEOUT,
      Signature indicating value any_value
from the ADAPTOR entity
}
then {
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "200 OK"
    body containing
      vAcknowledgment containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        Sender containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        Recipient containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        AckCode indicating value Success,
        Signature indicating value any_value
to the ADAPTOR and
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "200 OK"
    body containing
      vPullResponse containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        CreationDateTime indicating value CURRENT_TIME,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        Sender containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        Recipient containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        Payload containing
          vessel containing
            IMONumber indicating value VESSEL_IMO_NUMBER,
            Name indicating value VESSEL_NAME,
            Location indicating value VESSEL_LOCATION,
            ShipType indicating value VESSEL_SHIP_TYPE,
            ResultCode indicating value success,
            Signature indicating value any_value
to the ADAPTOR entity
}
}

```

6.2.3.5 Incident service

TP Id	"TP_CDM_NODE_EI_NA_PULL_DISC_BV_05"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a PullRequest with IncidentService discovery - no Acknowledgment required
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 5.5 CISE Discovery mechanism ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 004 [1], clause 8.1.7 Discover ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_INCIDENT_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value incidentService, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR and the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vPullResponse containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing</pre>	

```

    ServiceID indicating value SERVICE_ID,
    ServiceOperation indicating value Pull,
    Payload containing
      vessel containing
        IMONumber indicating value VESSEL_IMO_NUMBER,
        Name indicating value VESSEL_NAME,
        Location indicating value VESSEL_LOCATION,
        ShipType indicating value VESSEL_SHIP_TYPE,
    ResultCode indicating value success,
    Signature indicating value any_value
  to the ADAPTOR entity
}
}

```

6.2.3.6 IrregularInfringementIncident service

TP Id	"TP_CDM_NODE_EI_NA_PULL_DISC_BV_06"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a PullRequest with IrregularMigrationIncidentService discovery - no Acknowledgment required
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 5.5 CISE Discovery mechanism ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 004 [1], clause 8.1.7 Discover ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_IRREGULAR_MIGRATION_INCIDENT_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value irregularMigrationIncidentService, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, </pre>	

```

        AckCode indicating value Success,
        Signature indicating value any_value
    to the ADAPTOR and
    the IUT sends a HTTP_RESPONSE containing
        status_code set to "200 OK"
        body containing
            vPullResponse containing
                MessageID indicating value MESSAGE_ID,
                CorrelationID indicating value CORRELATION_ID,
                CreationDateTime indicating value CURRENT_TIME,
                Priority indicating value PRIORITY,
                RequiresAck indicating value false,
                Sender containing
                    ServiceID indicating value SERVICE_ID,
                    ServiceOperation indicating value Pull,
                Recipient containing
                    ServiceID indicating value SERVICE_ID,
                    ServiceOperation indicating value Pull,
                Payload containing
                    vessel containing
                        IMONumber indicating value VESSEL_IMO_NUMBER,
                        Name indicating value VESSEL_NAME,
                        Location indicating value VESSEL_LOCATION,
                        ShipType indicating value VESSEL_SHIP_TYPE,
                ResultCode indicating value success,
                Signature indicating value any_value
    to the ADAPTOR entity
}
}

```

6.2.3.7 LawInfringementIncident service

TP Id	"TP_CDM_NODE_EI_NA_PULL_DISC_BV_07"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a PullRequest with LawInfringementIncidentService discovery - no Acknowledgment required
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 5.5 CISE Discovery mechanism ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 004 [1], clause 8.1.7 Discover ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_INCIDENT_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value lawInfringementIncidentService, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity </pre>	


```

}
then {
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "200 OK"
    body containing
      vAcknowledgment containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        Sender containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        Recipient containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        AckCode indicating value Success,
        Signature indicating value any_value
    to the ADAPTOR and
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "200 OK"
    body containing
      vPullResponse containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        CreationDateTime indicating value CURRENT_TIME,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        Sender containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        Recipient containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        Payload containing
          vessel containing
            IMONumber indicating value VESSEL_IMO_NUMBER,
            Name indicating value VESSEL_NAME,
            Location indicating value VESSEL_LOCATION,
            ShipType indicating value VESSEL_SHIP_TYPE,
            ResultCode indicating value success,
            Signature indicating value any_value
    to the ADAPTOR entity
}
}

```

6.2.3.8 MeteoOceanographicCondition service

TP Id	"TP_CDM_NODE_EI_NA_PULL_DISC_BV_08"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a PullRequest with MeteoOceanographicConditionService discovery - no Acknowledgment required
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 5.5 CISE Discovery mechanism ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 004 [1], clause 8.1.7 Discover ETSI GS CDM 005 [2], clause 7.1.10.2.2 MeteoOceanographicCondition Class ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_METEO_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI,	

```

    body containing
      vPullRequest containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        CreationDateTime indicating value CURRENT_TIME,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        Sender containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        PullType indicating value Discover,
        DiscoveryProfiles containing
          ServiceType indicating value meteoOceanographicConditionService,
          ResponseTimeout indicating value RESPONSE_TIMEOUT,
          Signature indicating value any_value
    from the ADAPTOR entity
  }
}
then {
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "200 OK"
    body containing
      vAcknowledgment containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        Sender containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        Recipient containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        AckCode indicating value Success,
        Signature indicating value any_value
  to the ADAPTOR and
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "200 OK"
    body containing
      vPullResponse containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        CreationDateTime indicating value CURRENT_TIME,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        Sender containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        Recipient containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        Payload containing
          vessel containing
            IMONumber indicating value VESSEL_IMO_NUMBER,
            Name indicating value VESSEL_NAME,
            Location indicating value VESSEL_LOCATION,
            ShipType indicating value VESSEL_SHIP_TYPE,
            ResultCode indicating value success,
            Signature indicating value any_value
  to the ADAPTOR entity
}
}

```

6.2.3.9 Organization service

TP Id	"TP_CDM_NODE_EI_NA_PULL_DISC_BV_09"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a PullRequest with OrganizationService discovery - no Acknowledgment required
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 5.5 CISE Discovery mechanism ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 004 [1], clause 8.1.7 Discover ETSI GS CDM 005 [2], clause 7.1.15.2.1 Organization Class (subclass of Agent) ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_ORGANIZATION_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value organizationService, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR and the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vPullResponse containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing</pre>	

```

    ServiceID indicating value SERVICE_ID,
    ServiceOperation indicating value Pull,
    Payload containing
    vessel containing
        IMONumber indicating value VESSEL_IMO_NUMBER,
        Name indicating value VESSEL_NAME,
        Location indicating value VESSEL_LOCATION,
        ShipType indicating value VESSEL_SHIP_TYPE,
    ResultCode indicating value success,
    Signature indicating value any_value
    to the ADAPTOR entity
}
}

```

6.2.3.10 Risk service

TP Id	"TP_CDM_NODE_EI_NA_PULL_DISC_BV_10"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a PullRequest with RiskService discovery - no Acknowledgment required
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 5.5 CISE Discovery mechanism ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 004 [1], clause 8.1.7 Discover ETSI GS CDM 005 [2], clause 7.1.18 Risk Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_INCIDENT_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value riskService, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, </pre>	

```

        AckCode indicating value Success,
        Signature indicating value any_value
    to the ADAPTOR and
    the IUT sends a HTTP_RESPONSE containing
        status_code set to "200 OK"
        body containing
            vPullResponse containing
                MessageID indicating value MESSAGE_ID,
                CorrelationID indicating value CORRELATION_ID,
                CreationDateTime indicating value CURRENT_TIME,
                Priority indicating value PRIORITY,
                RequiresAck indicating value false,
                Sender containing
                    ServiceID indicating value SERVICE_ID,
                    ServiceOperation indicating value Pull,
                Recipient containing
                    ServiceID indicating value SERVICE_ID,
                    ServiceOperation indicating value Pull,
                Payload containing
                    vessel containing
                        IMONumber indicating value VESSEL_IMO_NUMBER,
                        Name indicating value VESSEL_NAME,
                        Location indicating value VESSEL_LOCATION,
                        ShipType indicating value VESSEL_SHIP_TYPE,
                ResultCode indicating value success,
                Signature indicating value any_value
    to the ADAPTOR entity
}
}

```

6.2.3.11 Cargo service

TP Id	"TP_CDM_NODE_EI_NA_PULL_DISC_BV_11"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a PullRequest with CargoService discovery - no Acknowledgment required
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 5.5 CISE Discovery mechanism ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 004 [1], clause 8.1.7 Discover
PICS Selection	IUT_CDM_NODE and CDM_INCIDENT_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value cargoService, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing </pre>	

```

status_code set to "200 OK"
body containing
  vAcknowledgment containing
    MessageID indicating value MESSAGE_ID,
    CorrelationID indicating value CORRELATION_ID,
    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    Sender containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull,
    Recipient containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull,
    AckCode indicating value Success,
    Signature indicating value any_value
to the ADAPTOR and
the IUT sends a HTTP_RESPONSE containing
  status_code set to "200 OK"
  body containing
    vPullResponse containing
      MessageID indicating value MESSAGE_ID,
      CorrelationID indicating value CORRELATION_ID,
      CreationDateTime indicating value CURRENT_TIME,
      Priority indicating value PRIORITY,
      RequiresAck indicating value false,
      Sender containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value Pull,
      Recipient containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value Pull,
      Payload containing
        vessel containing
          IMONumber indicating value VESSEL_IMO_NUMBER,
          Name indicating value VESSEL_NAME,
          Location indicating value VESSEL_LOCATION,
          ShipType indicating value VESSEL_SHIP_TYPE,
          ResultCode indicating value success,
          Signature indicating value any_value
to the ADAPTOR entity
}
}

```

6.2.4 Push/Subscribe

6.2.4.1 Vessel service

TP Id	"TP_CDM_NODE_EI_NA_SUB_BV_01"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Push for subscription - delegation to the node
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_VESSEL_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing	

```

    ServiceID indicating value SERVICE_ID,
    ServiceOperation indicating value subscribe,
    ServiceType indicating value vesselService,
    SeaBasin indicating value SEA_BASIN,
    Recipient containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value subscribe,
      ServiceType indicating value vesselService,
    ResponseTimeout indicating value 1000,
    PullType indicating value Subscribe,
    Requests containing
      SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR,
    Signature indicating value any_value
  from the ADAPTOR entity
}
then {
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "200 OK"
    body containing
      vAcknowledgment containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        Sender containing
          ServiceID indicating value SERVICE_ID,
          ServiceType indicating value vesselService,
          ServiceOperation indicating value Subscribe,
        Recipient containing
          ServiceID indicating value SERVICE_ID,
          ServiceType indicating value vesselService,
          ServiceOperation indicating value Subscribe,
        AckCode indicating value Success,
        Signature indicating value any_value
      to the ADAPTOR entity
}
}

```

TP Id	"TP_CDM_NODE_EI_NA_SUB_BO_01"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response and an error code when receiving a subscription ending in past
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_VESSEL_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value vesselService, SeaBasin indicating value SEA_BASIN, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value vesselService, ResponseTimeout indicating value 1000, PullType indicating value Subscribe, Requests containing SubscriptionEnd indicating value CURENT_TIME_MINUS_ONE_HOUR,	

```

        Signature indicating value any_value
    from the ADAPTOR entity
}
then {
    the IUT sends a HTTP_RESPONSE containing
        status_code set to "200 OK"
        body containing
            vAcknowledgment containing
                MessageID indicating value MESSAGE_ID,
                CorrelationID indicating value CORRELATION_ID,
                Priority indicating value PRIORITY,
                RequiresAck indicating value false,
                Sender containing
                    ServiceID indicating value SERVICE_ID,
                    ServiceType indicating value vesselService,
                    ServiceOperation indicating value Subscribe,
                Recipient containing
                    ServiceID indicating value SERVICE_ID,
                    ServiceType indicating value vesselService,
                    ServiceOperation indicating value Subscribe,
                AckCode indicating value timestampError, // FIXME To be checked
                Signature indicating value any_value
    to the ADAPTOR entity
}
}

```

6.2.4.2 Action service

TP Id	"TP_CDM_NODE_EI_NA_SUB_BV_02"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a subscription for ActionService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.3 Action Core Entity ETSI GS CDM 005 [2], clause 7.1.10 Location Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_ACTION_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value actionService, SeaBasin indicating value SEA_BASIN, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value actionService, ResponseTimeout indicating value 1000, PullType indicating value Subscribe, Requests containing SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing </pre>	


```

vAcknowledgment containing
  MessageID indicating value MESSAGE_ID,
  CorrelationID indicating value CORRELATION_ID,
  Priority indicating value PRIORITY,
  RequiresAck indicating value false,
  Sender containing
    ServiceID indicating value SERVICE_ID,
    ServiceOperation indicating value subscribe,
    ServiceType indicating value actionService,
  Recipient containing
    ServiceID indicating value SERVICE_ID,
    ServiceOperation indicating value subscribe,
    ServiceType indicating value actionService,
  AckCode indicating value Success,
  Signature indicating value any_value
to the ADAPTOR entity
}
}

```

6.2.4.3 Anomaly service

TP Id	"TP_CDM_NODE_EI_NA_SUB_BV_03"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a subscription for AnomalyService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.5 Anomaly Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_ANOMALY_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value anomalyService, SeaBasin indicating value SEA_BASIN, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value anomalyService, ResponseTimeout indicating value 1000, PullType indicating value Subscribe, Requests containing SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, </pre>	

```

        ServiceType indicating value anomalyService,
        Recipient containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value subscribe,
        ServiceType indicating value anomalyService,
        AckCode indicating value Success,
        Signature indicating value any_value
    to the ADAPTOR entity
}
}

```

6.2.4.4 CertificateDocument service

TP Id	"TP_CDM_NODE_EI_NA_SUB_BV_04"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a subscription for CertificateDocumentService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.7 Document Core Entity
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_CERTIFICATE_DOCUMENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value certificateDocumentService, SeaBasin indicating value SEA_BASIN, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value certificateDocumentService, ResponseTimeout indicating value 1000, PullType indicating value Subscribe, Requests containing SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value certificateDocumentService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value certificateDocumentService, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity </pre>	

```
}
}
```

TP Id	"TP_CDM_NODE_EI_NA_SUB_BV_05"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a subscription for IncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_INCIDENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value incidentService, SeaBasin indicating value SEA_BASIN, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value incidentService, ResponseTimeout indicating value 1000, PullType indicating value Subscribe, Requests containing SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value incidentService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value incidentService, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } } } }</pre>	

6.2.4.5 Incident service

TP Id	"TP_CDM_NODE_EI_NA_SUB_BV_06"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a subscription for IrregularMigrationIncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniquelIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_IRREGULAR_MIGRATION_INCIDENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value irregularMigrationIncidentService, SeaBasin indicating value SEA_BASIN, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value irregularMigrationIncidentService, ResponseTimeout indicating value 1000, PullType indicating value Subscribe, Requests containing SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value irregularMigrationIncidentService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value irregularMigrationIncidentService, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } } } } </pre>	

6.2.4.6 IrregularInfringementIncident service

TP Id	"TP_CDM_NODE_EI_NA_SUB_BV_06"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a subscription for IrregularMigrationIncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniquelIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_IRREGULAR_MIGRATION_INCIDENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value irregularMigrationIncidentService, SeaBasin indicating value SEA_BASIN, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value irregularMigrationIncidentService, ResponseTimeout indicating value 1000, PullType indicating value Subscribe, Requests containing SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value irregularMigrationIncidentService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value irregularMigrationIncidentService, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } } } } </pre>	

6.2.4.7 LawInfringementIncident service

TP Id	"TP_CDM_NODE_EI_NA_SUB_BV_07"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a subscription for LawInfringementIncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniquelIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_LAW_INFRINGEMENT_INCIDENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value lawInfringementIncidentService, SeaBasin indicating value SEA_BASIN, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value lawInfringementIncidentService, ResponseTimeout indicating value 1000, PullType indicating value Subscribe, Requests containing SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value lawInfringementIncidentService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value lawInfringementIncidentService, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } } } } </pre>	

6.2.4.8 MeteoOceanographicCondition service

TP Id	"TP_CDM_NODE_EI_NA_SUB_BV_08"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a subscription for MeteoOceanographicConditionService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.10.2.2 MeteoOceanographicCondition Class ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_METEO_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value meteoOceanographicConditionService, SeaBasin indicating value SEA_BASIN, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value meteoOceanographicConditionService, ResponseTimeout indicating value 1000, PullType indicating value Subscribe, Requests containing SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value meteoOceanographicConditionService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value meteoOceanographicConditionService, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } } } } </pre>	

6.2.4.9 Organization service

TP Id	"TP_CDM_NODE_EI_NA_SUB_BV_09"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a subscription for OrganizationService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.10.2.2 MeteoOceanographicCondition Class ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_ORGANIZATION_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value organizationService, SeaBasin indicating value SEA_BASIN, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value organizationService, ResponseTimeout indicating value 1000, PullType indicating value Subscribe, Requests containing SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value organizationService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value organizationService, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } } } } </pre>	

6.2.4.10 Risk service

TP Id	"TP_CDM_NODE_EI_NA_SUB_BV_10"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a subscription for RiskService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.18 Risk Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniquelIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_RISK_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value riskService, SeaBasin indicating value SEA_BASIN, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value riskService, ResponseTimeout indicating value 1000, PullType indicating value Subscribe, Requests containing SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value riskService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value riskService, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } } } } </pre>	

6.2.4.11 Cargo service

TP Id	"TP_CDM_NODE_EI_NA_SUB_BV_11"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a subscription for CargoService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_CARGO_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value cargoService, SeaBasin indicating value SEA_BASIN, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value cargoService, ResponseTimeout indicating value 1000, PullType indicating value Subscribe, Requests containing SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value cargoService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value cargoService, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } } } } </pre>	

6.2.5 Push/Subscribe lookup

6.2.5.1 Vessel service

TP Id	"TP_CDM_NODE_EI_NA_SUB_LOOK_BV_01_01"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a request of subscribers list for VesselService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.8 Get Subscribers ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_VESSEL_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT having a VESSEL_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value URI_SUBSCRIBE_GET, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value vesselService, ServiceOperation indicating value subscribe, PullType indicating value GetSubscribers, ResponseTimeout indicating value 1000, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, DiscoveredServices containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceCapability containing RefreshRate indicating value any_value, SubscriptionEnd indicating value END_OF_SUBSCRIPTION, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } } } } </pre>	

TP Id	"TP_CDM_NODE_EI_NA_SUB_LOOK_BV_01_02"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response with an empty list when no subscription was done for VesselService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.8 Get Subscribers ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_VESSEL_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT not having a VESSEL_SUBSCRIPTION }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value URI_SUBSCRIBE_GET, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value MESSAGE_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value vesselService, ServiceOperation indicating value subscribe, PullType indicating value GetSubscribers, ResponseTimeout indicating value 1000, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, DiscoveredServices containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } }	

6.2.5.2 Action service

TP Id	"TP_CDM_NODE_EI_NA_SUB_LOOK_BV_02"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a request of subscribers list for ActionService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.8 Get Subscribers ETSI GS CDM 005 [2], clause 7.1.3 Action Core Entity ETSI GS CDM 005 [2], clause 7.1.10 Location Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_ACTION_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT having a ACTION_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }	
Expected Behaviour	

```

ensure that {
  when {
    the IUT receives a vPOST containing
      uri indicating value URI_SUBSCRIBE_GET,
      body containing
        vPullRequest containing
          MessageID indicating value MESSAGE_ID,
          CorrelationID indicating value CORRELATION_ID,
          ContextID indicating value CONTEXT_ID,
          CreationDateTime indicating value CURRENT_TIME,
          Priority indicating value PRIORITY,
          RequiresAck indicating value false,
          Sender containing
            ServiceID indicating value SERVICE_ID,
            ServiceType indicating value actionService,
            ServiceOperation indicating value subscribe,
            PullType indicating value GetSubscribers,
            ResponseTimeout indicating value 1000,
            Signature indicating value any_value
        from the ADAPTOR entity
      }
    then {
      the IUT sends a HTTP_RESPONSE containing
        status_code set to "200 OK"
        body containing
          vAcknowledgment containing
            MessageID indicating value MESSAGE_ID,
            CorrelationID indicating value CORRELATION_ID,
            Priority indicating value PRIORITY,
            RequiresAck indicating value false,
            DiscoveredServices containing
              ServiceID indicating value SERVICE_ID,
              ServiceOperation indicating value subscribe,
              ServiceCapability containing
                RefreshRate indicating value any_value,
                SubscriptionEnd indicating value END_OF_SUBSCRIPTION,
            AckCode indicating value Success,
            Signature indicating value any_value
          to the ADAPTOR entity
        }
      }
    }
}

```

6.2.5.3 Anomaly service

TP Id	"TP_CDM_NODE_EI_NA_SUB_LOOK_BV_03"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a request of subscribers list for AnomalyService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.8 Get Subscribers ETSI GS CDM 005 [2], clause 7.1.5 Anomaly Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_ANOMALY_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT having a ANOMALY_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value URI_SUBSCRIBE_GET, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, </pre>	

```

        ServiceType indicating value anomalyService,
        ServiceOperation indicating value subscribe,
        PullType indicating value GetSubscribers,
        ResponseTimeout indicating value 1000,
        Signature indicating value any_value
    from the ADAPTOR entity
}
then {
    the IUT sends a HTTP_RESPONSE containing
        status_code set to "200 OK"
        body containing
            vAcknowledgment containing
                MessageID indicating value MESSAGE_ID,
                CorrelationID indicating value CORRELATION_ID,
                Priority indicating value PRIORITY,
                RequiresAck indicating value false,
                DiscoveredServices containing
                    ServiceID indicating value SERVICE_ID,
                    ServiceOperation indicating value subscribe,
                    ServiceCapability containing
                        RefreshRate indicating value any_value,
                        SubscriptionEnd indicating value END_OF_SUBSCRIPTION,
                AckCode indicating value Success,
                Signature indicating value any_value
    to the ADAPTOR entity
}
}

```

6.2.5.4 CertificateDocument service

TP Id	"TP_CDM_NODE_EI_NA_SUB_LOOK_BV_04"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a request of subscribers list for CertificateDocumentService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.8 Get Subscribers ETSI GS CDM 005 [2], clause 7.1.7 Document Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_CERTIFICATE_DOCUMENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT having a CERTIFICATE_DOCUMENT_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value URI_SUBSCRIBE_GET, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value certificateDocumentService, ServiceOperation indicating value subscribe, PullType indicating value GetSubscribers, ResponseTimeout indicating value 1000, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY,	

```

    RequiresAck indicating value false,
    DiscoveredServices containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value subscribe,
      ServiceCapability containing
        RefreshRate indicating value any_value,
        SubscriptionEnd indicating value END_OF_SUBSCRIPTION,
    AckCode indicating value Success,
    Signature indicating value any_value
  to the ADAPTOR entity
}
}

```

6.2.5.5 Incident service

TP Id	"TP_CDM_NODE_EI_NA_SUB_LOOK_BV_05"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a request of subscribers list for IncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.8 Get Subscribers ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_INCIDENT_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT having a INCIDENT_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value URI_SUBSCRIBE_GET, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value incidentService, ServiceOperation indicating value subscribe, PullType indicating value GetSubscribers, ResponseTimeout indicating value 1000, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, DiscoveredServices containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceCapability containing RefreshRate indicating value any_value, SubscriptionEnd indicating value END_OF_SUBSCRIPTION, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } } } } </pre>	

6.2.5.6 IrregularInfringementIncident service

TP Id	"TP_CDM_NODE_EI_NA_SUB_LOOK_BV_06"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a request of subscribers list for IrregularMigrationIncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.8 Get Subscribers ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_IRREGULAR_MIGRATION_INCIDENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT having a IRREGULAR_MIGRATION_INCIDENT_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value URI_SUBSCRIBE_GET, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value irregularMigrationIncidentService, ServiceOperation indicating value subscribe, PullType indicating value GetSubscribers, ResponseTimeout indicating value 1000, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, DiscoveredServices containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceCapability containing RefreshRate indicating value any_value, SubscriptionEnd indicating value END_OF_SUBSCRIPTION, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } }	

6.2.5.7 LawInfringementIncident service

TP Id	"TP_CDM_NODE_EI_NA_SUB_LOOK_BV_07"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a request of subscribers list for LawInfringementIncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.8 Get Subscribers ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_LAW_INFRINGEMENT_INCIDENT_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT having a LAW_INFRINGEMENT_INCIDENT_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value URI_SUBSCRIBE_GET, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value lawInfringementIncidentService, ServiceOperation indicating value subscribe, PullType indicating value GetSubscribers, ResponseTimeout indicating value 1000, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, DiscoveredServices containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceCapability containing RefreshRate indicating value any_value, SubscriptionEnd indicating value END_OF_SUBSCRIPTION, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } } }</pre>	

6.2.5.8 MeteoOceanographicCondition service

TP Id	"TP_CDM_NODE_EI_NA_SUB_LOOK_BV_08"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a request of subscribers list for MeteoOceanographicConditionService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.8 Get Subscribers ETSI GS CDM 005 [2], clause 7.1.10.2.2 MeteoOceanographicCondition Class ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_METEO_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT having a METEO_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value URI_SUBSCRIBE_GET, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value meteoOceanographicConditionService, ServiceOperation indicating value subscribe, PullType indicating value GetSubscribers, ResponseTimeout indicating value 1000, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, DiscoveredServices containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceCapability containing RefreshRate indicating value any_value, SubscriptionEnd indicating value END_OF_SUBSCRIPTION, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } } }</pre>	

6.2.5.9 Organization service

TP Id	"TP_CDM_NODE_EI_NA_SUB_LOOK_BV_09"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a request of subscribers list for OrganizationService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.8 Get Subscribers ETSI GS CDM 005 [2], clause 7.1.15.2.1 Organization Class (subclass of Agent) ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_ORGANIZATION_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT having a ORGANIZATION_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value URI_SUBSCRIBE_GET, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value organizationService, ServiceOperation indicating value subscribe, PullType indicating value GetSubscribers, ResponseTimeout indicating value 1000, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, DiscoveredServices containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceCapability containing RefreshRate indicating value any_value, SubscriptionEnd indicating value END_OF_SUBSCRIPTION, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } }	

6.2.5.10 Risk service

TP Id	"TP_CDM_NODE_EI_NA_SUB_LOOK_BV_10"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a request of subscribers list for RiskService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.8 Get Subscribers ETSI GS CDM 005 [2], clause 7.1.18 Risk Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniquelIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_RISK_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT having a RISK_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value URI_SUBSCRIBE_GET, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value riskService, ServiceOperation indicating value subscribe, PullType indicating value GetSubscribers, ResponseTimeout indicating value 1000, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, DiscoveredServices containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceCapability containing RefreshRate indicating value any_value, SubscriptionEnd indicating value END_OF_SUBSCRIPTION, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } }	

6.2.5.11 Cargo service

TP Id	"TP_CDM_NODE_EI_NA_SUB_LOOK_BV_11"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a request of subscribers list for CargoService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.8 Get Subscribers
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_RISK_SERVICE
Initial Conditions	
with { the IUT isInIdleState and	

<pre> the IUT having a CARGO_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID } </pre>
Expected Behaviour
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value URI_SUBSCRIBE_GET, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value cargoService, ServiceOperation indicating value subscribe, PullType indicating value GetSubscribers, ResponseTimeout indicating value 1000, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, DiscoveredServices containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceCapability containing RefreshRate indicating value any_value, SubscriptionEnd indicating value END_OF_SUBSCRIPTION, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } } } </pre>

6.2.6 Push/Unsubscribe

6.2.6.1 Vessel service

TP Id	"TP_CDM_NODE_EI_NA_SUB_DELETE_BV_01_01"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a request to delete subscription for VesselService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_VESSEL_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT having a VESSEL_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, </pre>	

```

ContextID indicating value CONTEXT_ID,
CreationDateTime indicating value CURRENT_TIME,
Priority indicating value PRIORITY,
RequiresAck indicating value false,
Sender containing
  ServiceID indicating value SERVICE_ID,
  ServiceType indicating value vesselService,
  ServiceOperation indicating value subscribe,
Recipient containing
  ServiceID indicating value SERVICE_ID,
  ServiceType indicating value vesselService,
  ServiceOperation indicating value subscribe,
PullType indicating value Unsubscribe,
Signature indicating value any_value
from the ADAPTOR entity
}
then {
  the IUT sends a HTTP_RESPONSE containing
  status_code set to "200 OK"
  body containing
  vAcknowledgment containing
  MessageID indicating value MESSAGE_ID,
  CorrelationID indicating value CORRELATION_ID,
  Priority indicating value PRIORITY,
  RequiresAck indicating value false,
  AckCode indicating value Success,
  Signature indicating value any_value
  to the ADAPTOR entity
}
}

```

TP Id	"TP_CDM_NODE_EI_NA_SUB_DELETE_BV_01_02"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response with an error code when receiving a request to delete an unknown subscription for VesselService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_VESSEL_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT not having a VESSEL_SUBSCRIPTION }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value MESSAGE_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value vesselService, ServiceOperation indicating value subscribe, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value vesselService, ServiceOperation indicating value subscribe, PullType indicating value Unsubscribe, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, } }	

```

    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    AckCode indicating value BadRequest, // TODO To be checked
    Signature indicating value any_value
  to the ADAPTOR entity
}
}

```

6.2.6.2 Action service

TP Id	"TP_CDM_NODE_EI_NA_SUB_DELETE_BV_02"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a request to delete subscription for ActionService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.3 Action Core Entity ETSI GS CDM 005 [2], clause 7.1.10 Location Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniquelIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_ACTION_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT having a ACTION_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value actionService, ServiceOperation indicating value subscribe, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value actionService, ServiceOperation indicating value subscribe, PullType indicating value Unsubscribe, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } } } } </pre>	

6.2.6.3 Anomaly service

TP Id	"TP_CDM_NODE_EI_NA_SUB_DELETE_BV_03"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a request to delete subscription for AnomalyService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.5 Anomaly Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_ANOMALY_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT having a ANOMALY_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value anomalyService, ServiceOperation indicating value subscribe, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value anomalyService, ServiceOperation indicating value subscribe, PullType indicating value Unsubscribe, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } }	

6.2.6.4 CertificateDocument service

TP Id	"TP_CDM_NODE_EI_NA_SUB_DELETE_BV_04"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a request to delete subscription for CertificateDocumentService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.7 Document Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_CERTIFICATE_DOCUMENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT having a CERTIFICATE_DOCUMENT_SUBSCRIPTION containing	

ContextID indicating value CONTEXT_ID }
Expected Behaviour
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value certificateDocumentService, ServiceOperation indicating value subscribe, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value certificateDocumentService, ServiceOperation indicating value subscribe, PullType indicating value Unsubscribe, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } } } </pre>

6.2.6.5 Incident service

TP Id	"TP_CDM_NODE_EI_NA_SUB_DELETE_BV_05"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a request to delete subscription for IncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_INCIDENT_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT having a INCIDENT_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing </pre>	

```

        ServiceID indicating value SERVICE_ID,
        ServiceType indicating value incidentService,
        ServiceOperation indicating value subscribe,
        Recipient containing
            ServiceID indicating value SERVICE_ID,
            ServiceType indicating value incidentService,
            ServiceOperation indicating value subscribe,
        PullType indicating value Unsubscribe,
        Signature indicating value any_value
    from the ADAPTOR entity
}
then {
    the IUT sends a HTTP_RESPONSE containing
        status_code set to "200 OK"
        body containing
            vAcknowledgment containing
                MessageID indicating value MESSAGE_ID,
                CorrelationID indicating value CORRELATION_ID,
                Priority indicating value PRIORITY,
                RequiresAck indicating value false,
                AckCode indicating value Success,
                Signature indicating value any_value
            to the ADAPTOR entity
}
}

```

6.2.6.6 IrregularInfringementIncident service

TP Id	"TP_CDM_NODE_EI_NA_SUB_DELETE_BV_06"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a request to delete subscription for IrregularMigrationIncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_IRREGULAR_MIGRATION_INCIDENT_SERVICE
Initial Conditions	
with { the IUT is in Idle State and the IUT having a IRREGULAR_MIGRATION_INCIDENT_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value irregularMigrationIncidentService, ServiceOperation indicating value subscribe, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value irregularMigrationIncidentService, ServiceOperation indicating value subscribe, PullType indicating value Unsubscribe, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, 	

```

CorrelationID indicating value CORRELATION_ID,
Priority indicating value PRIORITY,
RequiresAck indicating value false,
AckCode indicating value Success,
Signature indicating value any_value
to the ADAPTOR entity
}
}

```

6.2.6.7 LawInfringementIncident service

TP Id	"TP_CDM_NODE_EI_NA_SUB_DELETE_BV_07"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a request to delete subscription for LawInfringementIncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_LAW_INFRINGEMENT_INCIDENT_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT having a LAW_INFRINGEMENT_INCIDENT_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value lawInfringementIncidentService, ServiceOperation indicating value subscribe, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value lawInfringementIncidentService, ServiceOperation indicating value subscribe, PullType indicating value Unsubscribe, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } } </pre>	

6.2.6.8 MeteoOceanographicCondition service

TP Id	"TP_CDM_NODE_EI_NA_SUB_DELETE_BV_08"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a request to delete subscription for MeteoOceanographicConditionService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.10.2.2 MeteoOceanographicCondition Class ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_METEO_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT having a METEO_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value meteoOceanographicConditionService, ServiceOperation indicating value subscribe, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value meteoOceanographicConditionService, ServiceOperation indicating value subscribe, PullType indicating value Unsubscribe, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } }	

6.2.6.9 Organization service

TP Id	"TP_CDM_NODE_EI_NA_SUB_DELETE_BV_09"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a request to delete subscription for OrganizationService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_ORGANIZATION_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT having a ORGANIZATION_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }	

Expected Behaviour
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value organizationService, ServiceOperation indicating value subscribe, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value organizationService, ServiceOperation indicating value subscribe, PullType indicating value Unsubscribe, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } } } </pre>

6.2.6.10 Risk service

TP Id	"TP_CDM_NODE_EI_NA_SUB_DELETE_BV_10"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a request to delete subscription for RiskService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.18 Risk Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_RISK_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT having a RISK_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value riskService, ServiceOperation indicating value subscribe, </pre>	

```

    Recipient containing
      ServiceID indicating value SERVICE_ID,
      ServiceType indicating value riskService,
      ServiceOperation indicating value subscribe,
      PullType indicating value Unsubscribe,
      Signature indicating value any_value
  from the ADAPTOR entity
}
then {
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "200 OK"
  body containing
    vAcknowledgment containing
      MessageID indicating value MESSAGE_ID,
      CorrelationID indicating value CORRELATION_ID,
      Priority indicating value PRIORITY,
      RequiresAck indicating value false,
      AckCode indicating value Success,
      Signature indicating value any_value
  to the ADAPTOR entity
}
}

```

6.2.6.11 Cargo service

TP Id	"TP_CDM_NODE_EI_NA_SUB_DELETE_BV_11"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a request to delete subscription for CargoService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_CARGO_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT having a CARGO_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value cargoService, ServiceOperation indicating value subscribe, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value cargoService, ServiceOperation indicating value subscribe, PullType indicating value Unsubscribe, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, Signature indicating value any_value } } } </pre>	

```

}
to the ADAPTOR entity
}
}

```

6.2.7 Push/Notify

6.2.7.1 Vessel service

TP Id	"TP_CDM_NODE_EI_NA_PUSH_NOT_BV_01"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Push for notification for VesselService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_VESSEL_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE and the IUT having a VESSEL_SUBSCRIPTION } </pre>	
Expected Behaviour	
<pre> // FIXME Not sure how it works ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value VesselService, ServiceRole indicating value Provider, Payload containing Vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE, Reliability indicating value HighReliability, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, DiscoveredServices containing ServiceID indicating value SERVICE_ID_CONSUMER to the ADAPTOR entity } } } } </pre>	

6.2.7.2 Action service

TP Id	"TP_CDM_NODE_EI_NA_PUSH_NOT_BV_02"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Push for notification for ActionService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.3 Action Core Entity ETSI GS CDM 005 [2], clause 7.1.10 Location Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_ACTION_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT havingRegistered a vessel containing ActionType indicating value "Rescue", ActionStatus indicating value "InProgress", Mission indicating value nonSpecified, Priority indicating value High, Location indicating value VESSEL_LOCATION and the IUT having a ACTION_SUBSCRIPTION }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value ActionService, ServiceRole indicating value Provider, Payload containing Action containing ActionType indicating value "Rescue", ActionStatus indicating value "InProgress", Mission indicating value nonSpecified, Priority indicating value High, Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER, Reliability indicating value HighReliability, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, DiscoveredServices containing ServiceID indicating value SERVICE_ID_CONSUMER to the ADAPTOR entity } } }</pre>	

6.2.7.3 Anomaly service

TP Id	"TP_CDM_NODE_EI_NA_PUSH_NOT_BV_03"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Push for notification for AnomalyService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.5 Anomaly Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_ANOMALY_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE and the IUT having a ANOMALY_SUBSCRIPTION }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value AnomalyService, ServiceRole indicating value Provider, Payload containing Anomaly containing AnomalyType indicating value "VesselOutOfTrafficLanes", NatureType indicating value "Observed", Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER, Reliability indicating value HighReliability, Signature indicating value any_value from the ADAPTOR entity } } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, DiscoveredServices containing ServiceID indicating value SERVICE_ID_CONSUMER to the ADAPTOR entity } } }</pre>	

6.2.7.4 CertificateDocument service

TP Id	"TP_CDM_NODE_EI_NA_PUSH_NOT_BV_04"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Push for notification for CertificateDocumentService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.7 Document Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_CERTIFICATE_DOCUMENT_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE and the IUT having a CERTIFICATE_DOCUMENT_SUBSCRIPTION }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value certificateDocumentService, ServiceRole indicating value Provider, Payload containing Document containing Content indicating value RAW_DOCUMENT, Hash indicating value SHA_256_RAW_DOCUMENT, ReferenceURI indicating value REFERENCE_URI, Location indicating value VESSEL_LOCATION, Reliability indicating value HighReliability, Signature indicating value any_value from the ADAPTOR entity } } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, DiscoveredServices containing ServiceID indicating value SERVICE_ID_CONSUMER to the ADAPTOR entity } } }</pre>	

6.2.7.5 Incident service

TP Id	"TP_CDM_NODE_EI_NA_PUSH_NOT_BV_05"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Push for notification for IncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_INCIDENT_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE and the IUT having a INCIDENT_SUBSCRIPTION }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value incidentService, ServiceRole indicating value Provider, Payload containing Incident containing Identifier containing GeneratedIn indicating value any_value, UUID indicating value any_value, SickAnimalOnBoard indicating value "true", // Add test for the other features UrgencyType indicating value "Immediate", SeverityType indicating value "Moderate", Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER, Reliability indicating value HighReliability, Signature indicating value any_value from the ADAPTOR entity } } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, DiscoveredServices containing ServiceID indicating value SERVICE_ID_CONSUMER to the ADAPTOR entity } } } }</pre>	

6.2.7.6 IrregularInfringementIncident service

TP Id	"TP_CDM_NODE_EI_NA_PUSH_NOT_BV_06"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Push for notification for IrregularMigrationIncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_IRREGULAR_MIGRATION_INCIDENT_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE and the IUT having a IRREGULAR_MIGRATION_INCIDENT_SUBSCRIPTION }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value irregularMigrationIncidentService, ServiceRole indicating value Provider, Payload containing IrregularMigrationIncident containing identifier indicating value any_value, UrgencyType indicating value "Immediate", IrregularMigrationIncidentType indicating value "nonSpecified", Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER, Reliability indicating value HighReliability, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, DiscoveredServices containing ServiceID indicating value SERVICE_ID_CONSUMER to the ADAPTOR entity } } }</pre>	

6.2.7.7 LawInfringementIncident service

TP Id	"TP_CDM_NODE_EI_NA_PUSH_NOT_BV_07"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Push for notification for LawInfringementIncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_LAW_INFRINGEMENT_INCIDENT_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE and the IUT having a IRREGULAR_MIGRATION_INCIDENT_SUBSCRIPTION }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value lawInfringementIncidentService, ServiceRole indicating value Provider, Payload containing LawInfringementIncident containing identifier indicating value any_value, UrgencyType indicating value "Immediate", LawInfringementIncidentType indicating value "nonSpecified", Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER, Reliability indicating value HighReliability, Signature indicating value any_value from the ADAPTOR entity } } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, DiscoveredServices containing ServiceID indicating value SERVICE_ID_CONSUMER to the ADAPTOR entity } } }</pre>	

6.2.7.8 MeteoOceanographicCondition service

TP Id	"TP_CDM_NODE_EI_NA_PUSH_NOT_BV_08"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Push for notification for MeteoOceanographicConditionService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.10.2.2 MeteoOceanographicCondition Class ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_METEO_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE and the IUT having a METEO_SUBSCRIPTION }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value meteoOceanographicConditionService, ServiceRole indicating value Provider, Payload containing MeteoOceanographicCondition containing AirTemperature indicating value any_value, WindCurrentDirection indicating value any_value, WindCurrentSpeed indicating value any_value, Location indicating value VESSEL_LOCATION, Reliability indicating value HighReliability, Signature indicating value any_value from the ADAPTOR entity } } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, DiscoveredServices containing ServiceID indicating value SERVICE_ID_CONSUMER to the ADAPTOR entity } } }</pre>	

6.2.7.9 Organization service

TP Id	"TP_CDM_NODE_EI_NA_PUSH_NOT_BV_09"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Push for notification for OrganizationService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.15.2.1 Organization Class (subclass of Agent) ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_ORGANIZATION_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE and the IUT having a ORGANIZATION_SUBSCRIPTION }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value organizationService, ServiceRole indicating value Provider, Payload containing Organization containing Identifier indicating value any_value, OrganizationRole indicating value "portAuthority", Location indicating value VESSEL_LOCATION Agent containing identifier indicating value AGENT_IDENTIFIER, Reliability indicating value HighReliability, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, DiscoveredServices containing ServiceID indicating value SERVICE_ID_CONSUMER to the ADAPTOR entity } } } }</pre>	

6.2.7.10 Risk service

TP Id	"TP_CDM_NODE_EI_NA_PUSH_NOT_BV_10"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Push for notification for RiskService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.18 Risk Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniquelIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_RISK_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE and the IUT having a RISK_SUBSCRIPTION }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value riskService, ServiceRole indicating value Provider, Payload containing Risk containing Identifier indicating value any_value, RiskLevel indicating value high, RiskProbability indicating value probable, RiskSeverity indicating value critical, Location indicating value VESSEL_LOCATION Agent containing identifier indicating value AGENT_IDENTIFIER, Reliability indicating value HighReliability, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, DiscoveredServices containing ServiceID indicating value SERVICE_ID_CONSUMER to the ADAPTOR entity } } }</pre>	

6.2.7.11 Cargo service

TP Id	"TP_CDM_NODE_EI_NA_PUSH_NOT_BV_11"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Push for notification for CargoService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_CARGO_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE and the IUT having a CARGO_SUBSCRIPTION }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value cargoService, ServiceRole indicating value Provider, Payload containing Cargo containing CargoType indicating value CARGO_TYPE, Reliability indicating value HighReliability, Signature indicating value any_value from the ADAPTOR entity } } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, DiscoveredServices containing ServiceID indicating value SERVICE_ID_CONSUMER to the ADAPTOR entity } } }</pre>	

6.2.8 Asynchronous Acknowledgement

6.2.8.1 Vessel service

TP Id	"TP_CDM_NODE_EI_NA_ASYNC_ACK_BV_01"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a PullRequest for a Vessel service - Acknowledgment requested
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_VESSEL_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value true, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value vesselService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing Vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE, PullType indicating value Request, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends multiple HTTP_RESPONSE containing // Asynchronous ACK status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR and the IUT sends a HTTP_RESPONSE containing // Synchronous ACK status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID,</pre>	

```

CorrelationID indicating value CORRELATION_ID,
Priority indicating value PRIORITY,
RequiresAck indicating value false,
Sender containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value Pull,
Recipient containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value Pull,
AckCode indicating value Success,
Signature indicating value any_value
to the ADAPTOR and
the IUT sendsBeforeResponseTimerExpiry a HTTP_RESPONSE containing
  status_code set to "200 OK",
  body containing
    vPullResponse containing
      MessageID indicating value MESSAGE_ID,
      CorrelationID indicating value CORRELATION_ID,
      CreationDateTime indicating value CURRENT_TIME,
      Priority indicating value PRIORITY,
      RequiresAck indicating value false,
      Sender containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value Pull,
      Recipient containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value Pull,
      Payload containing
        vessel containing
          IMONumber indicating value VESSEL_IMO_NUMBER,
          Name indicating value VESSEL_NAME,
          Location indicating value VESSEL_LOCATION,
          ShipType indicating value VESSEL_SHIP_TYPE,
          ResultCode indicating value success,
          Signature indicating value any_value
    to the ADAPTOR entity
  }
}

```

6.2.9 Feedback

6.2.9.1 Vessel service

TP Id	"TP_CDM_NODE_EI_NA_FEEDBACK_BV_01"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Feedback for VesselService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_NODE and CDM_FEEDBACK and CDM_VESSEL_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE and the IUT havingReceived a PullRequest containing MessageID indicating value REF_MESSAGE_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_FEEDBACK_REQUEST_URI, body containing vFeedback containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, </pre>	

```

Priority indicating value PRIORITY,
RequiresAck indicating value true,
Sender containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value Feedback,
  ServiceType indicating value vesselService,
Recipient containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value Pull,
Payload containing
  Vessel containing
    IMONumber indicating value VESSEL_IMO_NUMBER,
    Name indicating value VESSEL_NAME,
    Location indicating value VESSEL_LOCATION,
    ShipType indicating value VESSEL_SHIP_TYPE,
    Signature indicating value any_value,
    FeedbackType indicating value Info,
    Reason indicating value ShipTypeChange,
    RefMessageID indicating value REF_MESSAGE_ID
from the ADAPTOR entity
}
then {
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "200 OK"
    body containing
      vAcknowledgment containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        AckCode indicating value Success,
        Signature indicating value any_value
to the ADAPTOR entity
}
}

```

6.2.9.2 Action Service

TP Id	"TP_CDM_NODE_EI_NA_FEEDBACK_BV_02"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Feedback for ActionService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.3 Action Core Entity ETSI GS CDM 005 [2], clause 7.1.10 Location Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniquelyIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_FEEDBACK and CDM_ACTION_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a action containing IMONumber indicating value ACTION_IMO_NUMBER, Name indicating value ACTION_NAME, Location indicating value ACTION_LOCATION, ShipType indicating value ACTION_SHIP_TYPE and the IUT havingReceived a PullRequest containing MessageID indicating value REF_MESSAGE_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_FEEDBACK_REQUEST_URI, body containing vFeedback containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value true, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Feedback, </pre>	

```

    ServiceType indicating value actionService,
    Recipient containing
    ServiceID indicating value SERVICE_ID,
    ServiceOperation indicating value Pull,
    Payload containing
    Action containing
    ActionType indicating value "Rescue",
    ActionStatus indicating value "InProgress",
    Mission indicating value nonSpecified,
    Priority indicating value High,
    Location indicating value VESSEL_LOCATION,
    Agent containing
    identifier indicating value AGENT_IDENTIFIER,
    Signature indicating value any_value,
    FeedbackType indicating value Info,
    Reason indicating value ShipTypeChange,
    RefMessageID indicating value REF_MESSAGE_ID
  from the ADAPTOR entity
}
then {
  the IUT sends a HTTP_RESPONSE containing
  status_code set to "200 OK"
  body containing
  vAcknowledgment containing
  MessageID indicating value MESSAGE_ID,
  CorrelationID indicating value CORRELATION_ID,
  Priority indicating value PRIORITY,
  RequiresAck indicating value false,
  AckCode indicating value Success,
  Signature indicating value any_value
  to the ADAPTOR entity
}
}

```

6.2.9.3 Anomaly Service

TP Id	"TP_CDM_NODE_EI_NA_FEEDBACK_BV_03"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Feedback for AnomalyService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.5 Anomaly Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_FEEDBACK and CDM_ANOMALY_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a anomaly containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE and the IUT havingReceived a PullRequest containing MessageID indicating value REF_MESSAGE_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_FEEDBACK_REQUEST_URI, body containing vFeedback containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value true, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Feedback, ServiceType indicating value anomalyService, Recipient containing ServiceID indicating value SERVICE_ID, </pre>	

```

    ServiceOperation indicating value Pull,
    Payload containing
      Anomaly containing
        AnomalyType indicating value "VesselOutOfTrafficLanes",
        NatureType indicating value "Observed",
        Location indicating value VESSEL_LOCATION,
        Agent containing
          identifier indicating value AGENT_IDENTIFIER,
        Signature indicating value any_value,
        FeedbackType indicating value Info,
        Reason indicating value ShipTypeChange,
        RefMessageID indicating value REF_MESSAGE_ID
    from the ADAPTOR entity
  }
  then {
    the IUT sends a HTTP_RESPONSE containing
      status_code set to "200 OK"
      body containing
        vAcknowledgment containing
          MessageID indicating value MESSAGE_ID,
          CorrelationID indicating value CORRELATION_ID,
          Priority indicating value PRIORITY,
          RequiresAck indicating value false,
          AckCode indicating value Success,
          Signature indicating value any_value
    to the ADAPTOR entity
  }
}

```

6.2.9.4 Certificate Document Service

TP Id	"TP_CDM_NODE_EI_NA_FEEDBACK_BV_04"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Feedback for CertificateDocumentService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.7 Document Core Entity
PICS Selection	IUT_CDM_NODE and CDM_FEEDBACK and CDM_CERTIFICATE_DOCUMENT_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a certificateDocument containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE and the IUT havingReceived a PullRequest containing MessageID indicating value REF_MESSAGE_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_FEEDBACK_REQUEST_URI, body containing vFeedback containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value true, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Feedback, ServiceType indicating value certificateDocumentService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing Document containing Content indicating value RAW_DOCUMENT, Hash indicating value SHA_256_RAW_DOCUMENT, ReferenceURI indicating value REFERENCE_URI, </pre>	

```

        Location indicating value VESSE_LOCATION,
        Signature indicating value any_value,
        FeedbackType indicating value Info,
        Reason indicating value ShipTypeChange,
        RefMessageID indicating value REF_MESSAGE_ID
    from the ADAPTOR entity
}
then {
    the IUT sends a HTTP_RESPONSE containing
        status_code set to "200 OK"
        body containing
            vAcknowledgment containing
                MessageID indicating value MESSAGE_ID,
                CorrelationID indicating value CORRELATION_ID,
                Priority indicating value PRIORITY,
                RequiresAck indicating value false,
                AckCode indicating value Success,
                Signature indicating value any_value
    to the ADAPTOR entity
}
}

```

6.2.9.5 Incident Service

TP Id	"TP_CDM_NODE_EI_NA_FEEDBACK_BV_05"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Feedback for IncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_FEEDBACK and CDM_INCIDENT_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a Incident containing Identifier containing GeneratedIn indicating value any_value, UUID indicating value any_value, SickAnimalOnBoard indicating value "true", // Add test for the other features UrgencyType indicating value "Immediate", SeverityType indicating value "Moderate", Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER and the IUT havingReceived a PullRequest containing MessageID indicating value REF_MESSAGE_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_FEEDBACK_REQUEST_URI, body containing vFeedback containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value true, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Feedback, ServiceType indicating value incidentService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing Incident containing Identifier containing GeneratedIn indicating value any_value, UUID indicating value any_value, SickAnimalOnBoard indicating value "true", // Add test for the other features </pre>	

```

        UrgencyType indicating value "Immediate",
        SeverityType indicating value "Moderate",
        Location indicating value VESSEL_LOCATION,
        Agent containing
            identifier indicating value AGENT_IDENTIFIER,
            Signature indicating value any_value,
            FeedbackType indicating value Info,
            Reason indicating value ShipTypeChange,
            RefMessageID indicating value REF_MESSAGE_ID
    from the ADAPTOR entity
}
then {
    the IUT sends a HTTP_RESPONSE containing
        status_code set to "200 OK"
        body containing
            vAcknowledgment containing
                MessageID indicating value MESSAGE_ID,
                CorrelationID indicating value CORRELATION_ID,
                Priority indicating value PRIORITY,
                RequiresAck indicating value false,
                AckCode indicating value Success,
                Signature indicating value any_value
    to the ADAPTOR entity
}
}

```

6.2.9.6 IrregularMigrationIncident Service

TP Id	"TP_CDM_NODE_EI_NA_FEEDBACK_BV_06"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Feedback for IrregularMigrationIncident
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_FEEDBACK and CDM_IRREGULAR_MIGRATION_INCIDENT_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a irregularMigrationIncident containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE and the IUT havingReceived a PullRequest containing MessageID indicating value REF_MESSAGE_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_FEEDBACK_REQUEST_URI, body containing vFeedback containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value true, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Feedback, ServiceType indicating value irregularMigrationIncidentService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing Incident containing IrregularMigrationIncident containing identifier indicating value any_value, UrgencyType indicating value "Immediate", IrregularMigrationIncidentType indicating value "nonSpecified", </pre>	


```

        Location indicating value VESSEL_LOCATION,
        Agent containing
            identifier indicating value AGENT_IDENTIFIER,
        Signature indicating value any_value,
        FeedbackType indicating value Info,
        Reason indicating value ShipTypeChange,
        RefMessageID indicating value REF_MESSAGE_ID
    from the ADAPTOR entity
}
then {
    the IUT sends a HTTP_RESPONSE containing
        status_code set to "200 OK"
        body containing
            vAcknowledgment containing
                MessageID indicating value MESSAGE_ID,
                CorrelationID indicating value CORRELATION_ID,
                Priority indicating value PRIORITY,
                RequiresAck indicating value false,
                AckCode indicating value Success,
                Signature indicating value any_value
    to the ADAPTOR entity
}
}

```

6.2.9.7 LawInfringementIncident Service

TP Id	"TP_CDM_NODE_EI_NA_FEEDBACK_BV_07"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Feedback for LawInfringementIncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_FEEDBACK and CDM_LAW_INFRINGEMENT_INCIDENT_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a LawInfringementIncident containing identifier indicating value any_value, UrgencyType indicating value "Immediate", LawInfringementIncidentType indicating value "nonSpecified", Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER and the IUT havingReceived a PullRequest containing MessageID indicating value REF_MESSAGE_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_FEEDBACK_REQUEST_URI, body containing vFeedback containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value true, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Feedback, ServiceType indicating value lawInfringementIncidentService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing LawInfringementIncident containing identifier indicating value any_value, UrgencyType indicating value "Immediate", LawInfringementIncidentType indicating value "nonSpecified", Location indicating value VESSEL_LOCATION, </pre>	

```

        Agent containing
            identifier indicating value AGENT_IDENTIFIER,
            Signature indicating value any_value,
            FeedbackType indicating value Info,
            Reason indicating value ShipTypeChange,
            RefMessageID indicating value REF_MESSAGE_ID
    from the ADAPTOR entity
}
then {
    the IUT sends a HTTP_RESPONSE containing
        status_code set to "200 OK"
        body containing
            vAcknowledgment containing
                MessageID indicating value MESSAGE_ID,
                CorrelationID indicating value CORRELATION_ID,
                Priority indicating value PRIORITY,
                RequiresAck indicating value false,
                AckCode indicating value Success,
                Signature indicating value any_value
    to the ADAPTOR entity
}
}

```

6.2.9.8 MeteoOceanographicCondition service

TP Id	"TP_CDM_NODE_EI_NA_FEEDBACK_BV_08"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Feedback for MeteoOceanographicConditionService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.10.2.2 MeteoOceanographicCondition Class ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_FEEDBACK and CDM_METEO_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a meteoOceanographicConditionService containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE and the IUT havingReceived a PullRequest containing MessageID indicating value REF_MESSAGE_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_FEEDBACK_REQUEST_URI, body containing vFeedback containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value true, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Feedback, ServiceType indicating value meteoOceanographicConditionService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing MeteoOceanographicCondition containing AirTemperature indicating value any_value, WindCurrentDirection indicating value any_value, WindCurrentSpeed indicating value any_value, Location indicating value VESSEL_LOCATION, Signature indicating value any_value, FeedbackType indicating value Info, Reason indicating value ShipTypeChange, RefMessageID indicating value REF_MESSAGE_ID </pre>	

```

    from the ADAPTOR entity
  }
  then {
    the IUT sends a HTTP_RESPONSE containing
      status_code set to "200 OK"
      body containing
        vAcknowledgment containing
          MessageID indicating value MESSAGE_ID,
          CorrelationID indicating value CORRELATION_ID,
          Priority indicating value PRIORITY,
          RequiresAck indicating value false,
          AckCode indicating value Success,
          Signature indicating value any_value
    to the ADAPTOR entity
  }
}

```

6.2.9.9 Organization service

TP Id	"TP_CDM_NODE_EI_NA_FEEDBACK_BV_09"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Feedback for OrganizationService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.10.2.2 MeteoOceanographicCondition Class ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_FEEDBACK and CDM_ORGANIZATION_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a organization containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE and the IUT havingReceived a PullRequest containing MessageID indicating value REF_MESSAGE_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_FEEDBACK_REQUEST_URI, body containing vFeedback containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value true, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Feedback, ServiceType indicating value organizationService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing Organization containing Identifier indicating value any_value, OrganizationRole indicating value "portAuthority", Location indicating value VESSEL_LOCATION Agent containing identifier indicating value AGENT_IDENTIFIER, Signature indicating value any_value, FeedbackType indicating value Info, Reason indicating value ShipTypeChange, RefMessageID indicating value REF_MESSAGE_ID from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" } } </pre>	

```

    body containing
      vAcknowledgment containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        AckCode indicating value Success,
        Signature indicating value any_value
    to the ADAPTOR entity
  }
}

```

6.2.9.10 Risk service

TP Id	"TP_CDM_NODE_EI_NA_FEEDBACK_BV_10"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Feedback for RiskService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.18 Risk Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniquelIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_FEEDBACK and CDM_RISK_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a risk containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE and the IUT havingReceived a PullRequest containing MessageID indicating value REF_MESSAGE_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_FEEDBACK_REQUEST_URI, body containing vFeedback containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value true, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Feedback, ServiceType indicating value riskService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing Risk containing Identifier indicating value any_value, RiskLevel indicating value high, RiskProbability indicating value probable, RiskSeverity indicating value critical, Location indicating value VESSEL_LOCATION Agent containing identifier indicating value AGENT_IDENTIFIER, Signature indicating value any_value, FeedbackType indicating value Info, Reason indicating value ShipTypeChange, RefMessageID indicating value REF_MESSAGE_ID from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, </pre>	

```

CorrelationID indicating value CORRELATION_ID,
Priority indicating value PRIORITY,
RequiresAck indicating value false,
AckCode indicating value Success,
Signature indicating value any_value
to the ADAPTOR entity
}
}

```

6.2.9.11 Cargo service

TP Id	"TP_CDM_NODE_EI_NA_FEEDBACK_BV_11"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Feedback for CargoService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.18 Cargo Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_FEEDBACK and CDM_CARGO_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a cargo containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE and the IUT havingReceived a PullRequest containing MessageID indicating value REF_MESSAGE_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_FEEDBACK_REQUEST_URI, body containing vFeedback containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value true, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Feedback, ServiceType indicating value cargoService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing Cargo containing CargoType indicating value CARGO_TYPE, Signature indicating value any_value, FeedbackType indicating value Info, Reason indicating value ShipTypeChange, RefMessageID indicating value REF_MESSAGE_ID from the ADAPTOR entity } } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } } } } </pre>	

6.3 EI NN Interface

6.3.1 Pull Request

6.3.1.1 Vessel service

TP Id	"TP_CDM_NODE_EI_NN_PULL_REQ_BV_01_01"
Test Objective	Check that the IUT sends a PullRequest to the GatewayProvider when receiving a PullRequest for a VesselService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_VESSEL_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT not havingRegistered a GATEWAY_PROVIDER and the IUT not havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value vesselService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value vesselService, Payload containing Vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE, PullType indicating value Request, ResponseTimeOut indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID_1, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME_1, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value vesselService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value vesselService, ServiceOperation indicating value Pull,</pre>	

```

    Payload containing
      Vessel containing
        IMONumber indicating value VESSEL_IMO_NUMBER,
        Name indicating value VESSEL_NAME,
        Location indicating value VESSEL_LOCATION,
        ShipType indicating value VESSEL_SHIP_TYPE,
      PullType indicating value Request,
      ResponseTimeout indicating value RESPONSE_TIMEOUT,
      Signature indicating value any_value
to the GATEWAY_PROVIDER and
the IUT sends a HTTP_RESPONSE containing
  status_code set to "200 OK"
  body containing
    vAcknowledgment containing
      MessageID indicating value MESSAGE_ID,
      CorrelationID indicating value CORRELATION_ID,
      Priority indicating value PRIORITY,
      RequiresAck indicating value false,
      Sender containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value Pull,
      Recipient containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value Pull,
      AckCode indicating value Success,
      Signature indicating value any_value
to the ADAPTOR entity
}
}

```

TP Id	"TP_CDM_NODE_EI_NN_PULL_REQ_BV_01_02"
Test Objective	Check that the IUT sends the synchronous Acknowledgment to the Adaptor when receiving the synchronous Acknowledgment from the GatewayProvider
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_VESSEL_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT not havingRegistered a GATEWAY_PROVIDER and the IUT not havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value vesselService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value vesselService, ServiceOperation indicating value Pull, Payload containing Vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE, PullType indicating value Request, </pre>	

```

        ResponseTimeout indicating value RESPONSE_TIMEOUT,
        Signature indicating value any_value
    from the ADAPTOR entity
}
then {
    the IUT sends a vPOST containing
        uri indicating value CDM_PULL_REQUEST_URI,
        body containing
            vPullRequest containing
                MessageID indicating value MESSAGE_ID_1,
                CorrelationID indicating value CORRELATION_ID,
                CreationDateTime indicating value CURRENT_TIME_1,
                Priority indicating value PRIORITY,
                RequiresAck indicating value false,
                Sender containing
                    ServiceID indicating value SERVICE_ID,
                    ServiceOperation indicating value Pull,
                    ServiceType indicating value vesselService,
                Recipient containing
                    ServiceID indicating value SERVICE_ID,
                    ServiceOperation indicating value Pull,
                    ServiceType indicating value vesselService,
                Payload containing
                    Vessel containing
                        IMONumber indicating value VESSEL_IMO_NUMBER,
                        Name indicating value VESSEL_NAME,
                        Location indicating value VESSEL_LOCATION,
                        ShipType indicating value VESSEL_SHIP_TYPE,
                        PullType indicating value Request,
                        ResponseTimeout indicating value RESPONSE_TIMEOUT,
                        Signature indicating value any_value
            to the GATEWAY_PROVIDER and
        the IUT sends a HTTP_RESPONSE containing
            status_code set to "200 OK"
            body containing
                vAcknowledgment containing
                    MessageID indicating value MESSAGE_ID,
                    CorrelationID indicating value CORRELATION_ID,
                    Priority indicating value PRIORITY,
                    RequiresAck indicating value false,
                    Sender containing
                        ServiceID indicating value SERVICE_ID,
                        ServiceOperation indicating value Pull,
                    Recipient containing
                        ServiceID indicating value SERVICE_ID,
                        ServiceOperation indicating value Pull,
                    AckCode indicating value Success,
                    Signature indicating value any_value
            to the ADAPTOR entity
}
}

```

TP Id	"TP_CDM_NODE_EI_NN_PULL_REQ_BV_01_03"
Test Objective	Check that the IUT sends the PullResponse to the Adaptor when receiving the PullResponse from the GatewayProvider
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_VESSEL_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT not havingRegistered a GATEWAY_PROVIDER and the IUT not havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT sendsBeforeResponseTimerExpiry a HTTP_RESPONSE containing status_code set to "200 OK", </pre>	


```

body containing
  vPullResponse containing
    MessageID indicating value MESSAGE_ID,
    CorrelationID indicating value CORRELATION_ID,
    CreationDateTime indicating value CURRENT_TIME,
    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    Sender containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull,
      ServiceType indicating value vesselService,
    Recipient containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull,
      ServiceType indicating value vesselService,
    Payload containing
      vessel containing
        IMONumber indicating value VESSEL_IMO_NUMBER,
        Name indicating value VESSEL_NAME,
        Location indicating value VESSEL_LOCATION,
        ShipType indicating value VESSEL_SHIP_TYPE,
        ResultCode indicating value success,
        Signature indicating value any_value
  from the GATEWAY_PROVIDER entity
}
then {
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "200 OK",
    body containing
      vPullResponse containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        CreationDateTime indicating value CURRENT_TIME,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        Sender containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        Recipient containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        Payload containing
          vessel containing
            IMONumber indicating value VESSEL_IMO_NUMBER,
            Name indicating value VESSEL_NAME,
            Location indicating value VESSEL_LOCATION,
            ShipType indicating value VESSEL_SHIP_TYPE,
            ResultCode indicating value success,
            Signature indicating value any_value
  to the ADAPTOR entity
}
}

```

6.3.1.2 Action service

TP Id	"TP_CDM_NODE_EI_NN_PULL_REQ_BV_02"
Test Objective	Check that the IUT sends a PullRequest to the GatewayProvider when receiving a PullRequest for an ActionService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.20 Action Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_ACTION_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT not havingRegistered a GATEWAY_PROVIDER and the IUT not havingRegistered a action containing IMONumber indicating value ACTION_IMO_NUMBER, Name indicating value ACTION_NAME, Location indicating value ACTION_LOCATION, ShipType indicating value ACTION_SHIP_TYPE }	
Expected Behaviour	

```

ensure that {
  when {
    the IUT receives a vPOST containing
      uri indicating value CDM_PULL_REQUEST_URI,
      body containing
        vPullRequest containing
          MessageID indicating value MESSAGE_ID,
          CorrelationID indicating value CORRELATION_ID,
          CreationDateTime indicating value CURRENT_TIME,
          Priority indicating value PRIORITY,
          RequiresAck indicating value false,
          Sender containing
            ServiceID indicating value SERVICE_ID,
            ServiceOperation indicating value Pull,
            ServiceType indicating value actionService,
          Recipient containing
            ServiceID indicating value SERVICE_ID,
            ServiceType indicating value actionService,
            ServiceOperation indicating value Pull,
          Payload containing
            Action containing
              ActionType indicating value "Rescue",
              ActionStatus indicating value "InProgress",
              Mission indicating value nonSpecified,
              Priority indicating value High,
              Location indicating value VESSEL_LOCATION,
              Agent containing
                identifier indicating value AGENT_IDENTIFIER,
              PullType indicating value Request,
              ResponseTimeout indicating value RESPONSE_TIMEOUT,
              Signature indicating value any_value
      from the ADAPTOR entity
    }
  }
  then {
    the IUT sends a vPOST containing
      uri indicating value CDM_PULL_REQUEST_URI,
      body containing
        vPullRequest containing
          MessageID indicating value MESSAGE_ID_1,
          CorrelationID indicating value CORRELATION_ID,
          CreationDateTime indicating value CURRENT_TIME_1,
          Priority indicating value PRIORITY,
          RequiresAck indicating value false,
          Sender containing
            ServiceID indicating value SERVICE_ID,
            ServiceOperation indicating value Pull,
            ServiceType indicating value actionService,
          Recipient containing
            ServiceID indicating value SERVICE_ID,
            ServiceOperation indicating value Pull,
            ServiceType indicating value actionService,
          Payload containing
            Action containing
              ActionType indicating value "Rescue",
              ActionStatus indicating value "InProgress",
              Mission indicating value nonSpecified,
              Priority indicating value High,
              Location indicating value VESSEL_LOCATION,
              Agent containing
                identifier indicating value AGENT_IDENTIFIER,
              PullType indicating value Request,
              ResponseTimeout indicating value RESPONSE_TIMEOUT,
              Signature indicating value any_value
      to the GATEWAY_PROVIDER entity
    }
  }
}

```

6.3.1.3 Anomaly service

TP Id	"TP_CDM_NODE_EI_NN_PULL_REQ_BV_03"
Test Objective	Check that the IUT sends a PullRequest to the GatewayProvider when receiving a PullRequest for an AnomalyService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.20 Anomaly Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_ANOMALY_SERVICE
Initial Conditions	
<pre>with { the IUT isIdleState and the IUT not havingRegistered a GATEWAY_PROVIDER and the IUT not havingRegistered a anomaly containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value anomalyService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value anomalyService, Payload containing Anomaly containing AnomalyType indicating value "VesselOutOfTrafficLanes", NatureType indicating value "Observed", Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER, PullType indicating value Request, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } } then { the IUT sends a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID_1, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME_1, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value anomalyService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value anomalyService, ServiceOperation indicating value Pull, Payload containing Anomaly containing AnomalyType indicating value "VesselOutOfTrafficLanes", NatureType indicating value "Observed", Location indicating value VESSEL_LOCATION, Agent containing</pre>	

```

        identifier indicating value AGENT_IDENTIFIER,
        PullType indicating value Request,
        ResponseTimeout indicating value RESPONSE_TIMEOUT,
        Signature indicating value any_value
    to the GATEWAY_PROVIDER entity
}
}

```

6.3.1.4 CertificateDocument service

TP Id	"TP_CDM_NODE_EI_NN_PULL_REQ_BV_04"
Test Objective	Check that the IUT sends a PullRequest to the GatewayProvider when receiving a PullRequest for a CertificateDocumentService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.7 Document Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_CERTIFICATE_DOCUMENT_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT not havingRegistered a GATEWAY_PROVIDER and the IUT not havingRegistered a anomaly containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value anomalyService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value anomalyService, Payload containing Document containing Content indicating value RAW_DOCUMENT, Hash indicating value SHA_256_RAW_DOCUMENT, ReferenceURI indicating value REFERENCE_URI, Location indicating value VESSE_LOCATION, PullType indicating value Request, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } } then { the IUT sends a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID_1, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME_1, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value anomalyService, Recipient containing </pre>	

```

    ServiceID indicating value SERVICE_ID,
    ServiceOperation indicating value Pull,
    ServiceType indicating value anomalyService,
    Payload containing
      Document containing
        Content indicating value RAW_DOCUMENT,
        Hash indicating value SHA_256_RAW_DOCUMENT,
        ReferenceURI indicating value REFERENCE_URI,
        Location indicating value VESSE_LOCATION,
        PullType indicating value Request,
        ResponseTimeout indicating value RESPONSE_TIMEOUT,
        Signature indicating value any_value
    to the GATEWAY_PROVIDER entity
  }
}

```

6.3.1.5 Incident service

TP Id	"TP_CDM_NODE_EI_NN_PULL_REQ_BV_05"
Test Objective	Check that the IUT sends a PullRequest to the GatewayProvider when receiving a PullRequest for an IncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_INCIDENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT not havingRegistered a GATEWAY_PROVIDER and the IUT not havingRegistered a incident containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value incidentService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value incidentService, Payload containing Incident containing Identifier containing GeneratedIn indicating value any_value, UUID indicating value any_value, SickAnimalOnBoard indicating value "true", // Add test for the other features UrgencyType indicating value "Immediate", SeverityType indicating value "Moderate", Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER, PullType indicating value Request, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } } then {	

```

the IUT sends a vPOST containing
  uri indicating value CDM_PULL_REQUEST_URI,
  body containing
    vPullRequest containing
      MessageID indicating value MESSAGE_ID_1,
      CorrelationID indicating value CORRELATION_ID,
      CreationDateTime indicating value CURRENT_TIME_1,
      Priority indicating value PRIORITY,
      RequiresAck indicating value false,
      Sender containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value Pull,
        ServiceType indicating value incidentService,
      Recipient containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value Pull,
        ServiceType indicating value incidentService,
      Payload containing
        Incident containing
          Identifier containing
            GeneratedIn indicating value any_value,
            UUID indicating value any_value,
            SickAnimalOnBoard indicating value "true", // Add test for the other features
            UrgencyType indicating value "Immediate",
            SeverityType indicating value "Moderate",
            Location indicating value VESSEL_LOCATION,
            Agent containing
              identifier indicating value AGENT_IDENTIFIER,
            PullType indicating value Request,
            ResponseTimeout indicating value RESPONSE_TIMEOUT,
            Signature indicating value any_value
          to the GATEWAY_PROVIDER entity
        }
    }
}

```

6.3.1.6 IrregularMigrationIncident service

TP Id	"TP_CDM_NODE_EI_NN_PULL_REQ_BV_06"
Test Objective	Check that the IUT sends a PullRequest to the GatewayProvider when receiving a PullRequest for an IrregularMigrationIncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_IRREGULAR_MIGRATION_INCIDENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT not havingRegistered a GATEWAY_PROVIDER and the IUT not havingRegistered a irregularMigrationIncident containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value irregularMigrationIncidentService, Recipient containing ServiceID indicating value SERVICE_ID, to the GATEWAY_PROVIDER entity } } }	

```

    ServiceOperation indicating value Pull,
    ServiceType indicating value irregularMigrationIncidentService,
    Payload containing
      IrregularMigrationIncident containing
        identifier indicating value any_value,
        UrgencyType indicating value "Immediate",
        IrregularMigrationIncidentType indicating value "nonSpecified",
        Location indicating value VESSEL_LOCATION,
        Agent containing
          identifier indicating value AGENT_IDENTIFIER,
        PullType indicating value Request,
        ResponseTimeOut indicating value RESPONSE_TIMEOUT,
        Signature indicating value any_value
    from the ADAPTOR entity
  }
}
then {
  the IUT sends a vPOST containing
    uri indicating value CDM_PULL_REQUEST_URI,
    body containing
      vPullRequest containing
        MessageID indicating value MESSAGE_ID_1,
        CorrelationID indicating value CORRELATION_ID,
        CreationDate indicating value CURRENT_TIME_1,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        Sender containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
          ServiceType indicating value irregularMigrationIncidentService,
        Recipient containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
          ServiceType indicating value irregularMigrationIncidentService,
        Payload containing
          IrregularMigrationIncident containing
            identifier indicating value any_value,
            UrgencyType indicating value "Immediate",
            IrregularMigrationIncidentType indicating value "nonSpecified",
            Location indicating value VESSEL_LOCATION,
            Agent containing
              identifier indicating value AGENT_IDENTIFIER,
            PullType indicating value Request,
            ResponseTimeOut indicating value RESPONSE_TIMEOUT,
            Signature indicating value any_value
        to the GATEWAY_PROVIDER entity
      }
    }
}

```

6.3.1.7 LawInfringementIncident service

TP Id	"TP_CDM_NODE_EI_NN_PULL_REQ_BV_07"
Test Objective	Check that the IUT sends a PullRequest to the GatewayProvider when receiving a PullRequest for an LawInfringementIncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_LAW_INFRINGEMENT_INCIDENT_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT not havingRegistered a GATEWAY_PROVIDER and the IUT not havingRegistered a lawInfringementIncident containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, </pre>	

```

body containing
  vPullRequest containing
    MessageID indicating value MESSAGE_ID,
    CorrelationID indicating value CORRELATION_ID,
    CreationDateTime indicating value CURRENT_TIME,
    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    Sender containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull,
      ServiceType indicating value lawInfringementIncidentService,
    Recipient containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull,
      ServiceType indicating value lawInfringementIncidentService,
    Payload containing
      LawInfringementIncident containing
        identifier indicating value any_value,
        UrgencyType indicating value "Immediate",
        LawInfringementIncidentType indicating value "nonSpecified",
        Location indicating value VESSEL_LOCATION,
        Agent containing
          identifier indicating value AGENT_IDENTIFIER,
        PullType indicating value Request,
        ResponseTimeout indicating value RESPONSE_TIMEOUT,
        Signature indicating value any_value
  from the ADAPTOR entity
}
then {
  the IUT sends a vPOST containing
    uri indicating value CDM_PULL_REQUEST_URI,
    body containing
      vPullRequest containing
        MessageID indicating value MESSAGE_ID_1,
        CorrelationID indicating value CORRELATION_ID,
        CreationDateTime indicating value CURRENT_TIME_1,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        Sender containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
          ServiceType indicating value lawInfringementIncidentService,
        Recipient containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
          ServiceType indicating value lawInfringementIncidentService,
        Payload containing
          LawInfringementIncident containing
            identifier indicating value any_value,
            UrgencyType indicating value "Immediate",
            LawInfringementIncidentType indicating value "nonSpecified",
            Location indicating value VESSEL_LOCATION,
            Agent containing
              identifier indicating value AGENT_IDENTIFIER,
            PullType indicating value Request,
            ResponseTimeout indicating value RESPONSE_TIMEOUT,
            Signature indicating value any_value
  to the GATEWAY_PROVIDER entity
}
}

```


6.3.1.8 MeteoOceanographicCondition service

TP Id	"TP_CDM_NODE_EI_NN_PULL_REQ_BV_08"
Test Objective	Check that the IUT sends a PullRequest to the GatewayProvider when receiving a PullRequest for an ongoing meteo condition
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.10.2.2 MeteoOceanographicCondition Class ETSI GS CDM 005 [2], clause 7.1.19 UniquelIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_METEO_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT not havingRegistered a GATEWAY_PROVIDER and the IUT not havingRegistered a meteoOceanographicCondition containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value meteoOceanographicConditionService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value meteoOceanographicConditionService, ServiceOperation indicating value Pull, Payload containing MeteoOceanographicCondition containing AirTemperature indicating value any_value, WindCurrentDirection indicating value any_value, WindCurrentSpeed indicating value any_value, Location indicating value VESSEL_LOCATION, PullType indicating value Request, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID_1, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME_1, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value meteoOceanographicConditionService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value meteoOceanographicConditionService, ServiceOperation indicating value Pull, Payload containing MeteoOceanographicCondition containing AirTemperature indicating value any_value, WindCurrentDirection indicating value any_value, WindCurrentSpeed indicating value any_value, Location indicating value VESSEL_LOCATION,</pre>	

```

    PullType indicating value Request,
    ResponseTimeout indicating value RESPONSE_TIMEOUT,
    Signature indicating value any_value
  to the GATEWAY_PROVIDER entity
}
}

```

6.3.1.9 Organization service

TP Id	"TP_CDM_NODE_EI_NN_PULL_REQ_BV_09"
Test Objective	Check that the IUT sends a PullRequest to the GatewayProvider when receiving a PullRequest for an OrganizationService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.15.2.1 Organization Class (subclass of Agent) ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_ORGANIZATION_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT not havingRegistered a GATEWAY_PROVIDER and the IUT not havingRegistered a organization containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value organizationService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value organizationService, ServiceOperation indicating value Pull, Payload containing Organization containing Identifier indicating value any_value, OrganizationRole indicating value "portAuthority", Location indicating value VESSEL_LOCATION Agent containing identifier indicating value AGENT_IDENTIFIER, PullType indicating value Request, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID_1, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME_1, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value organizationService, </pre>	

```

Recipient containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value Pull,
  ServiceType indicating value organizationService,
Payload containing
  Organization containing
    Identifier indicating value any_value,
    OrganizationRole indicating value "portAuthority",
    Location indicating value VESSEL_LOCATION
  Agent containing
    identifier indicating value AGENT_IDENTIFIER,
  PullType indicating value Request,
  ResponseTimeout indicating value RESPONSE_TIMEOUT,
  Signature indicating value any_value
to the GATEWAY_PROVIDER entity
}
}

```

6.3.1.10 Risk service

TP Id	"TP_CDM_NODE_EI_NN_PULL_REQ_BV_10"
Test Objective	Check that the IUT sends a PullRequest to the GatewayProvider when receiving a PullRequest for a RiskService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.18 Risk Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_RISK_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT not havingRegistered a GATEWAY_PROVIDER and the IUT not havingRegistered a risk containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value riskService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value riskService, ServiceOperation indicating value Pull, Payload containing Risk containing Identifier indicating value any_value, RiskLevel indicating value high, RiskProbability indicating value probable, RiskSeverity indicating value critical, Location indicating value VESSEL_LOCATION Agent containing identifier indicating value AGENT_IDENTIFIER, PullType indicating value Request, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } } then { </pre>	

```

the IUT sends a vPOST containing
  uri indicating value CDM_PULL_REQUEST_URI,
  body containing
    vPullRequest containing
      MessageID indicating value MESSAGE_ID_1,
      CorrelationID indicating value CORRELATION_ID,
      CreationDateTime indicating value CURRENT_TIME_1,
      Priority indicating value PRIORITY,
      RequiresAck indicating value false,
      Sender containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value Pull,
        ServiceType indicating value riskService,
      Recipient containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value Pull,
        ServiceType indicating value riskService,
      Payload containing
        Risk containing
          Identifier indicating value any_value,
          RiskLevel indicating value high,
          RiskProbability indicating value probable,
          RiskSeverity indicating value critical,
          Location indicating value VESSEL_LOCATION
          Agent containing
            identifier indicating value AGENT_IDENTIFIER,
          PullType indicating value Request,
          ResponseTimeout indicating value RESPONSE_TIMEOUT,
          Signature indicating value any_value
    to the GATEWAY_PROVIDER entity
  }
}

```

6.3.1.11 Cargo service

TP Id	"TP_CDM_NODE_EI_NN_PULL_REQ_BV_11"
Test Objective	Check that the IUT sends a PullRequest to the GatewayProvider when receiving a PullRequest for a CargoService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_CARGO_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT not havingRegistered a GATEWAY_PROVIDER and the IUT not havingRegistered a cargo containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value cargoService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value cargoService, Payload containing Cargo containing </pre>	

```

        CargoType indicating value CARGO_TYPE,
        PullType indicating value Request,
        ResponseTimeOut indicating value RESPONSE_TIMEOUT,
        Signature indicating value any_value
    from the ADAPTOR entity
}
then {
    the IUT sends a vPOST containing
    uri indicating value CDM_PULL_REQUEST_URI,
    body containing
    vPullRequest containing
    MessageID indicating value MESSAGE_ID_1,
    CorrelationID indicating value CORRELATION_ID,
    CreationDateTime indicating value CURRENT_TIME_1,
    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    Sender containing
    ServiceID indicating value SERVICE_ID,
    ServiceOperation indicating value Pull,
    ServiceType indicating value cargoService,
    Recipient containing
    ServiceID indicating value SERVICE_ID,
    ServiceOperation indicating value Pull,
    ServiceType indicating value cargoService,
    Payload containing
    Cargo containing
    CargoType indicating value CARGO_TYPE,
    PullType indicating value Request,
    ResponseTimeOut indicating value RESPONSE_TIMEOUT,
    Signature indicating value any_value
    to the GATEWAY_PROVIDER entity
}
}

```

6.3.2 Pull Discovery

TP Id	"TP_CDM_NODE_EI_NN_MULTI_PULL_REQ_BV_01"
Test Objective	Check that the IUT sends a PullRequest to the GatewayProvider when receiving a PullRequest for a MeteoOceanographicConditionService discovery
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 5.5 CISE Discovery mechanism ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 004 [1], clause 8.1.7 Discover ETSI GS CDM 005 [2], clause 7.1.10.2.2 MeteoOceanographicCondition Class ETSI GS CDM 005 [2], clause 7.1.19 UniquelIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_METEO_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, PullType indicating value Discover, DiscoveryProfiles containing </pre>	

```

        ServiceType indicating value meteoOceanographicConditionService,
        ResponseTimeout indicating value RESPONSE_TIMEOUT,
        Signature indicating value any_value
    from the ADAPTOR entity
}
then {
    the IUT sends a vPOST containing
        uri indicating value CDM_PULL_REQUEST_URI,
        body containing
            vPullRequest containing
                MessageID indicating value MESSAGE_ID,
                CorrelationID indicating value CORRELATION_ID,
                CreationDateTime indicating value CURRENT_TIME,
                Priority indicating value PRIORITY,
                RequiresAck indicating value false,
                Sender containing
                    ServiceID indicating value SERVICE_ID,
                    ServiceOperation indicating value Pull,
                    PullType indicating value Discover,
                    DiscoveryProfiles containing
                        ServiceType indicating value meteoOceanographicConditionService,
                        ResponseTimeout indicating value RESPONSE_TIMEOUT,
                        Signature indicating value any_value
                to the GATEWAY_PROVIDER entity
}
}

```

6.3.3 Push/Subscribe

TP Id	"TP_CDM_NODE_EI_NN_SUB_BV_01"
Test Objective	Check that the IUT sends a PullRequest for subscription to the GatewayProvider when receiving a PullRequest for a VesselService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_VESSEL_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value vesselService, SeaBasin indicating value SEA_BASIN, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value vesselService, ResponseTimeout indicating value 1000, PullType indicating value Subscribe, Requests containing SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, </pre>	

```

CorrelationID indicating value CORRELATION_ID,
CreationDateTime indicating value CURRENT_TIME,
Priority indicating value PRIORITY,
RequiresAck indicating value false,
Sender containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value subscribe,
  ServiceType indicating value vesselService,
  SeaBasin indicating value SEA_BASIN,
Recipient containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value subscribe,
  ServiceType indicating value vesselService,
ResponseTimeout indicating value 1000,
PullType indicating value Subscribe,
Requests containing
  SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR,
  Signature indicating value any_value
to the GATEWAY_PROVIDER entity
}
}

```

6.3.4 Push/Subscribe lookup

TP Id	"TP_CDM_NODE_EI_NN_SUB_LOOK_BV_01"
Test Objective	Check that the IUT sends a PullRequest for subscribers list to the GatewayProvider when receiving a PullRequest for subscribers list for a IncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.8 Get Subscribers ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_INCIDENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT having a INCIDENT_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value URI_SUBSCRIBE_GET, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value incidentService, ServiceOperation indicating value subscribe, PullType indicating value GetSubscribers, ResponseTimeout indicating value 1000, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a vPOST containing uri indicating value URI_SUBSCRIBE_GET, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing	

```

        ServiceID indicating value SERVICE_ID,
        ServiceType indicating value incidentService,
        ServiceOperation indicating value subscribe,
        PullType indicating value GetSubscribers,
        ResponseTimeOut indicating value 1000,
        Signature indicating value any_value
    to the GATEWAY_PROVIDER entity
}
}

```

6.3.5 Push/Unsubscribe

TP Id	"TP_CDM_NODE_EI_NN_SUB_DELETE_BV_01"
Test Objective	Check that the IUT sends a PullRequest for subscription deletion to the GatewayProvider when receiving a PullRequest for subscription deletion for a RiskService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.18 Risk Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_RISK_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT having a RISK_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value organizationService, ServiceOperation indicating value subscribe, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value organizationService, ServiceOperation indicating value subscribe, PullType indicating value Unsubscribe, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, PullType indicating value Unsubscribe, Signature indicating value any_value from the GATEWAY_PROVIDER entity }	


```
}
}
```

6.3.6 Push/Notify

TP Id	"TP_CDM_NODE_EI_NN_PUSH_NOT_BV_01"
Test Objective	Check that the IUT sends a Push to the Adaptor when receiving a Push from the GatewayProvider for a VesselService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_VESSEL_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE and the IUT having a VESSEL_SUBSCRIPTION }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value VesselService, ServiceRole indicating value Provider, Payload containing Vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE, Reliability indicating value HighReliability, Signature indicating value any_value from the GATEWAY_PROVIDER entity } then { the ADAPTOR sends a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value VesselService, ServiceRole indicating value Provider, Payload containing Vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE, Reliability indicating value HighReliability, Signature indicating value any_value from the ADAPTOR entity } }</pre>	

```

}
}

```

6.3.7 Asynchronous Acknowledgement

TP Id	"TP_CDM_NODE_EI_NN_ASYNC_ACK_BV_01"
Test Objective	Check that the IUT sends a PullRequest for async Ack to the GatewayProvider when receiving a PullRequest for async Ack for a RiskService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_CARGO_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value true, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value vesselService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing Cargo containing CargoType indicating value CARGO_TYPE, PullType indicating value Request, ResponseTimeOut indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the ADAPTOR entity } then { the IUT sends a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value true, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, ServiceType indicating value vesselService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing Cargo containing CargoType indicating value CARGO_TYPE, PullType indicating value Request, ResponseTimeOut indicating value RESPONSE_TIMEOUT, Signature indicating value any_value from the GATEWAY_PROVIDER and the IUT sends multiple HTTP_RESPONSE containing // Asynchronous ACK status_code set to "200 OK" } } } } </pre>	

```

body containing
  vAcknowledgment containing
    MessageID indicating value MESSAGE_ID,
    CorrelationID indicating value CORRELATION_ID,
    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    Sender containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull,
    Recipient containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull,
    AckCode indicating value Success,
    Signature indicating value any_value
to the ADAPTOR and
the IUT sends a HTTP_RESPONSE containing // Synchronous ACK
  status_code set to "200 OK"
  body containing
    vAcknowledgment containing
      MessageID indicating value MESSAGE_ID,
      CorrelationID indicating value CORRELATION_ID,
      Priority indicating value PRIORITY,
      RequiresAck indicating value false,
      Sender containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value Pull,
      Recipient containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value Pull,
      AckCode indicating value Success,
      Signature indicating value any_value
to the ADAPTOR and
the IUT sendsBeforeResponseTimerExpiry a HTTP_RESPONSE containing
  status_code set to "200 OK",
  body containing
    vPullResponse containing
      MessageID indicating value MESSAGE_ID,
      CorrelationID indicating value CORRELATION_ID,
      CreationDateTime indicating value CURRENT_TIME,
      Priority indicating value PRIORITY,
      RequiresAck indicating value false,
      Sender containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value Pull,
      Recipient containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value Pull,
      Payload containing
        vessel containing
          IMONumber indicating value VESSEL_IMO_NUMBER,
          Name indicating value VESSEL_NAME,
          Location indicating value VESSEL_LOCATION,
          ShipType indicating value VESSEL_SHIP_TYPE,
          ResultCode indicating value success,
          Signature indicating value any_value
to the ADAPTOR entity
}
}

```

6.3.8 Feedback

TP Id	"TP_CDM_NODE_EI_NN_FEEDBACK_BV_01"
Test Objective	Check that the IUT sends a PullRequest for feedback to the GatewayProvider when receiving a PullRequest for feedback for a VesselService
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_NODE and CDM_FEEDBACK and CDM_VESSEL_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT havingRegistered a vessel containing IMONumber indicating value VESSEL_IMO_NUMBER,	

```

Name indicating value VESSEL_NAME,
Location indicating value VESSEL_LOCATION,
ShipType indicating value VESSEL_SHIP_TYPE and
the IUT havingReceived a PullRequest containing
MessageID indicating value REF_MESSAGE_ID
}

```

Expected Behaviour

```

ensure that {
  when {
    the IUT receives a vPOST containing
      uri indicating value CDM_FEEDBACK_REQUEST_URI,
      body containing
        vFeedback containing
          MessageID indicating value MESSAGE_ID,
          CorrelationID indicating value CORRELATION_ID,
          CreationDateTime indicating value CURRENT_TIME,
          Priority indicating value PRIORITY,
          RequiresAck indicating value true,
          Sender containing
            ServiceID indicating value SERVICE_ID,
            ServiceOperation indicating value Feedback,
            ServiceType indicating value vesselService,
          Recipient containing
            ServiceID indicating value SERVICE_ID,
            ServiceOperation indicating value Pull,
          Payload containing
            Vessel containing
              IMONumber indicating value VESSEL_IMO_NUMBER,
              Name indicating value VESSEL_NAME,
              Location indicating value VESSEL_LOCATION,
              ShipType indicating value VESSEL_SHIP_TYPE,
              Signature indicating value any_value,
              FeedbackType indicating value Info,
              Reason indicating value ShipTypeChange,
              RefMessageID indicating value REF_MESSAGE_ID
            from the GATEWAY_PROVIDER entity
          }
    }
  then {
    the IUT sends a vPOST containing
      uri indicating value CDM_FEEDBACK_REQUEST_URI,
      body containing
        vFeedback containing
          MessageID indicating value MESSAGE_ID,
          CorrelationID indicating value CORRELATION_ID,
          CreationDateTime indicating value CURRENT_TIME,
          Priority indicating value PRIORITY,
          RequiresAck indicating value true,
          Sender containing
            ServiceID indicating value SERVICE_ID,
            ServiceOperation indicating value Feedback,
            ServiceType indicating value vesselService,
          Recipient containing
            ServiceID indicating value SERVICE_ID,
            ServiceOperation indicating value Pull,
          Payload containing
            Vessel containing
              IMONumber indicating value VESSEL_IMO_NUMBER,
              Name indicating value VESSEL_NAME,
              Location indicating value VESSEL_LOCATION,
              ShipType indicating value VESSEL_SHIP_TYPE,
              Signature indicating value any_value,
              FeedbackType indicating value Info,
              Reason indicating value ShipTypeChange,
              RefMessageID indicating value REF_MESSAGE_ID
            to the ADAPTOR entity
          }
    }
  }
}

```

6.4 Adaptor

6.4.1 Pull Request

TP Id	"TP_CDM_ADAPTOR_PULL_REQ_BV_01"
Test Objective	Check that the IUT sends a PullRequest for VesselService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_ADAPTOR and CDM_PULL and CDM_VESSEL_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Request, Vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE from the TEST_SYSTEM entity } then { the IUT sends a HTTP_REQUEST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing Vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE, PullType indicating value Request, Signature indicating value any_value to the NODE entity } } </pre>	

TP Id	"TP_CDM_ADAPTOR_PULL_REQ_BV_02"
Test Objective	Check that the IUT sends a PullRequest for ActionService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.3 Action Core Entity ETSI GS CDM 005 [2], clause 7.1.10 Location Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_ADAPTOR and CDM_PULL and CDM_ACTION_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { </pre>	

```

the IUT isTriggeredToSend a PullRequest containing
  PullType indicating value Request,
  Action containing
    ActionType indicating value "Rescue",
    ActionStatus indicating value "InProgress",
    Mission indicating value nonSpecified,
    Priority indicating value High,
    Location indicating value VESSEL_LOCATION,
    Agent containing
      identifier indicating value AGENT_IDENTIFIER
  from the TEST_SYSTEM entity
}
then {
  the IUT sends a HTTP_REQUEST containing
    uri indicating value CDM_PULL_REQUEST_URI,
    body containing
      vPullRequest containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        CreationDateTime indicating value CURRENT_TIME,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        Sender containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        Recipient containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
        Payload containing
          Action containing
            ActionType indicating value "Rescue",
            ActionStatus indicating value "InProgress",
            Mission indicating value nonSpecified,
            Priority indicating value High,
            Location indicating value VESSEL_LOCATION,
            Agent containing
              identifier indicating value AGENT_IDENTIFIER,
            PullType indicating value Request,
            Signature indicating value any_value
        to the NODE entity
}
}

```

TP Id	"TP_CDM_ADAPTOR_PULL_REQ_BV_03"
Test Objective	Check that the IUT sends a PullRequest for AnomalyService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.5 Anomaly Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_ADAPTOR and CDM_PULL and CDM_ANOMALY_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Request, Anomaly containing AnomalyType indicating value "VesselOutOfTrafficLanes", NatureType indicating value "Observed", Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER from the TEST_SYSTEM entity } then { the IUT sends a HTTP_REQUEST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID,	

```

CreationDateTime indicating value CURRENT_TIME,
Priority indicating value PRIORITY,
RequiresAck indicating value false,
Sender containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value Pull,
Recipient containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value Pull,
Payload containing
  Anomaly containing
    AnomalyType indicating value "VesselOutOfTrafficLanes",
    NatureType indicating value "Observed",
    Location indicating value VESSEL_LOCATION,
    Agent containing
      identifier indicating value AGENT_IDENTIFIER,
    PullType indicating value Request,
    Signature indicating value any_value
to the NODE entity
}
}

```

TP Id	"TP_CDM_ADAPTOR_PULL_REQ_BV_04"
Test Objective	Check that the IUT sends a PullRequest for CertificateDocumentService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.7 Document Core Entity
PICS Selection	IUT_CDM_ADAPTOR and CDM_PULL and CDM_CERTIFICATE_DOCUMENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Request, Document containing Content indicating value RAW_DOCUMENT, Hash indicating value SHA_256_RAW_DOCUMENT, ReferenceURI indicating value REFERENCE_URI, Location indicating value VESSE_LOCATION from the TEST_SYSTEM entity } then { the IUT sends a HTTP_REQUEST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing Document containing Content indicating value RAW_DOCUMENT, Hash indicating value SHA_256_RAW_DOCUMENT, ReferenceURI indicating value REFERENCE_URI, Location indicating value VESSE_LOCATION, PullType indicating value Request, Signature indicating value any_value to the NODE entity } } </pre>	

TP Id	"TP_CDM_ADAPTOR_PULL_REQ_BV_05"
Test Objective	Check that the IUT sends a PullRequest for IncidentService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_ADAPTOR and CDM_PULL and CDM_INCIDENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Request, Incident containing Identifier containing GeneratedIn indicating value any_value, UUID indicating value any_value, SickAnimalOnBoard indicating value "true", // Add test for the other features UrgencyType indicating value "Immediate", SeverityType indicating value "Moderate", Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER from the TEST_SYSTEM entity } then { the IUT sends a HTTP_REQUEST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing Incident containing Identifier containing GeneratedIn indicating value any_value, UUID indicating value any_value, SickAnimalOnBoard indicating value "true", // Add test for the other features UrgencyType indicating value "Immediate", SeverityType indicating value "Moderate", Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER, PullType indicating value Request, Signature indicating value any_value to the NODE entity } } </pre>	

TP Id	"TP_CDM_ADAPTOR_PULL_REQ_BV_06"
Test Objective	Check that the IUT sends a PullRequest for IrregularMigrationIncidentService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_ADAPTOR and CDM_PULL and CDM_IRREGULAR_MIGRATION_INCIDENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Request, IrregularMigrationIncident containing identifier indicating value any_value, UrgencyType indicating value "Immediate", IrregularMigrationIncidentType indicating value "nonSpecified", Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER from the TEST_SYSTEM entity } then { the IUT sends a HTTP_REQUEST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing IrregularMigrationIncident containing identifier indicating value any_value, UrgencyType indicating value "Immediate", IrregularMigrationIncidentType indicating value "nonSpecified", Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER, PullType indicating value Request, Signature indicating value any_value to the NODE entity } }</pre>	

TP Id	"TP_CDM_ADAPTOR_PULL_REQ_BV_07"
Test Objective	Check that the IUT sends a PullRequest for LawInfringementIncidentService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_ADAPTOR and CDM_PULL and CDM_LAW_INFRINGEMENT_INCIDENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing</pre>	

```

    PullType indicating value Request,
    LawInfringementIncident containing
        identifier indicating value any_value,
        UrgencyType indicating value "Immediate",
        LawInfringementIncidentType indicating value "nonSpecified",
        Location indicating value VESSEL_LOCATION,
        Agent containing
            identifier indicating value AGENT_IDENTIFIER
    from the TEST_SYSTEM entity
}
then {
    the IUT sends a HTTP_REQUEST containing
        uri indicating value CDM_PULL_REQUEST_URI,
        body containing
            vPullRequest containing
                MessageID indicating value MESSAGE_ID,
                CorrelationID indicating value CORRELATION_ID,
                CreationDateTime indicating value CURRENT_TIME,
                Priority indicating value PRIORITY,
                RequiresAck indicating value false,
                Sender containing
                    ServiceID indicating value SERVICE_ID,
                    ServiceOperation indicating value Pull,
                Recipient containing
                    ServiceID indicating value SERVICE_ID,
                    ServiceOperation indicating value Pull,
                Payload containing
                    LawInfringementIncident containing
                        identifier indicating value any_value,
                        UrgencyType indicating value "Immediate",
                        LawInfringementIncidentType indicating value "nonSpecified",
                        Location indicating value VESSEL_LOCATION,
                        Agent containing
                            identifier indicating value AGENT_IDENTIFIER,
                    PullType indicating value Request,
                    Signature indicating value any_value
    to the NODE entity
}
}

```

TP Id	"TP_CDM_ADAPTOR_PULL_REQ_BV_08"
Test Objective	Check that the IUT sends a PullRequest for MeteoOceanographicConditionService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.10.2.2 MeteoOceanographicCondition Class ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_ADAPTOR and CDM_PULL and CDM_METEO_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Request, MeteoOceanographicCondition containing AirTemperature indicating value any_value, WindCurrentDirection indicating value any_value, WindCurrentSpeed indicating value any_value, Location indicating value VESSEL_LOCATION from the TEST_SYSTEM entity } then { the IUT sends a HTTP_REQUEST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false,	

```

Sender containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value Pull,
Recipient containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value Pull,
Payload containing
  MeteoOceanographicCondition containing
    AirTemperature indicating value any_value,
    WindCurrentDirection indicating value any_value,
    WindCurrentSpeed indicating value any_value,
    Location indicating value VESSEL_LOCATION,
  PullType indicating value Request,
  Signature indicating value any_value
to the NODE entity
}
}

```

TP Id	"TP_CDM_ADAPTOR_PULL_REQ_BV_09"
Test Objective	Check that the IUT sends a PullRequest for OrganizationService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.15.2.1 Organization Class (subclass of Agent) ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_ADAPTOR and CDM_PULL and CDM_ORGANIZATION_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Request, Organization containing Identifier indicating value any_value, OrganizationRole indicating value "portAuthority", Location indicating value VESSEL_LOCATION Agent containing identifier indicating value AGENT_IDENTIFIER from the TEST_SYSTEM entity } then { the IUT sends a HTTP_REQUEST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing Organization containing Identifier indicating value any_value, OrganizationRole indicating value "portAuthority", Location indicating value VESSEL_LOCATION Agent containing identifier indicating value AGENT_IDENTIFIER, PullType indicating value Request, Signature indicating value any_value to the NODE entity } } }	

TP Id	"TP_CDM_ADAPTOR_PULL_REQ_BV_10"
Test Objective	Check that the IUT sends a PullRequest for RiskService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.18 Risk Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_ADAPTOR and CDM_PULL and CDM_RISK_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Request, Risk containing Identifier indicating value any_value, RiskLevel indicating value high, RiskProbability indicating value probable, RiskSeverity indicating value critical, Location indicating value VESSEL_LOCATION Agent containing identifier indicating value AGENT_IDENTIFIER from the TEST_SYSTEM entity } then { the IUT sends a HTTP_REQUEST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing Risk containing Identifier indicating value any_value, RiskLevel indicating value high, RiskProbability indicating value probable, RiskSeverity indicating value critical, Location indicating value VESSEL_LOCATION Agent containing identifier indicating value AGENT_IDENTIFIER, PullType indicating value Request, Signature indicating value any_value to the NODE entity } } </pre>	

TP Id	"TP_CDM_ADAPTOR_PULL_REQ_BV_11"
Test Objective	Check that the IUT sends a PullRequest for CargoService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_ADAPTOR and CDM_PULL and CDM_CARGO_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing </pre>	

```

    PullType indicating value Request,
    Cargo containing
      CargoType indicating value CARGO_TYPE
    from the TEST_SYSTEM entity
  }
  then {
    the IUT sends a HTTP_REQUEST containing
      uri indicating value CDM_PULL_REQUEST_URI,
      body containing
        vPullRequest containing
          MessageID indicating value MESSAGE_ID,
          CorrelationID indicating value CORRELATION_ID,
          CreationDateTime indicating value CURRENT_TIME,
          Priority indicating value PRIORITY,
          RequiresAck indicating value false,
          Sender containing
            ServiceID indicating value SERVICE_ID,
            ServiceOperation indicating value Pull,
          Recipient containing
            ServiceID indicating value SERVICE_ID,
            ServiceOperation indicating value Pull,
          Payload containing
            Cargo containing
              CargoType indicating value CARGO_TYPE,
              PullType indicating value Request,
              Signature indicating value any_value
            to the NODE entity
  }
}

```

6.4.2 Pull Discovery

TP Id	"TP_CDM_ADAPTOR_PULL_DISC_BV_01"
Test Objective	Check that the IUT sends a PullRequest for VesselService discovery when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 5.5 CISE Discovery mechanism ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 004 [1], clause 8.1.7 Discover
PICS Selection	IUT_CDM_ADAPTOR and CDM_PULL and CDM_VESSEL_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value vesselService, IMONumber indicating value VESSEL_IMO_NUMBER from the TEST_SYSTEM entity } then { the IUT sends a HTTP_REQUEST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value vesselService, IMONumber indicating value VESSEL_IMO_NUMBER, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value to the NODE entity }	

```

}
}

```

TP Id	"TP_CDM_ADAPTOR_PULL_DISC_BV_02"
Test Objective	Check that the IUT sends a PullRequest for ActionService discovery when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 5.5 CISE Discovery mechanism ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 004 [1], clause 8.1.7 Discover ETSI GS CDM 005 [2], clause 7.1.3 Action Core Entity ETSI GS CDM 005 [2], clause 7.1.10 Location Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_ADAPTOR and CDM_PULL and CDM_ACTION_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value actionService from the TEST_SYSTEM entity } then { the IUT sends a HTTP_REQUEST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value actionService, ResponseTimeOut indicating value RESPONSE_TIMEOUT, Signature indicating value any_value to the NODE entity } }	

TP Id	"TP_CDM_ADAPTOR_PULL_DISC_BV_03"
Test Objective	Check that the IUT sends a PullRequest for AnomalyService discovery when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 5.5 CISE Discovery mechanism ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 004 [1], clause 8.1.7 Discover ETSI GS CDM 005 [2], clause 7.1.5 Anomaly Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_ADAPTOR and CDM_PULL and CDM_ANOMALY_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value anomalyService from the TEST_SYSTEM entity }	

```

}
then {
  the IUT sends a HTTP_REQUEST containing
    uri indicating value CDM_PULL_REQUEST_URI,
    body containing
      vPullRequest containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        CreationDateTime indicating value CURRENT_TIME,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        Sender containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value Pull,
          PullType indicating value Discover,
          DiscoveryProfiles containing
            ServiceType indicating value anomalyService,
            ResponseTimeout indicating value RESPONSE_TIMEOUT,
            Signature indicating value any_value
    to the NODE entity
}
}

```

TP Id	"TP_CDM_ADAPTOR_PULL_DISC_BV_04"
Test Objective	Check that the IUT sends a PullRequest for CertificateDocumentService discovery when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 5.5 CISE Discovery mechanism ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 004 [1], clause 8.1.7 Discover ETSI GS CDM 005 [2], clause 7.1.5 Anomaly Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_ADAPTOR and CDM_PULL and CDM_CERTIFICATE_DOCUMENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value certificateDocumentService from the TEST_SYSTEM entity } then { the IUT sends a HTTP_REQUEST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value certificateDocumentService, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value to the NODE entity } }	

TP Id	"TP_CDM_ADAPTOR_PULL_DISC_BV_05"
Test Objective	Check that the IUT sends a PullRequest for IncidentService discovery when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 5.5 CISE Discovery mechanism ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 004 [1], clause 8.1.7 Discover ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 Uniquelidentifier Core Entity
PICS Selection	IUT_CDM_ADAPTOR and CDM_PULL and CDM_INCIDENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value incidentService from the TEST_SYSTEM entity } then { the IUT sends a HTTP_REQUEST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value incidentService, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value to the NODE entity } } } </pre>	

TP Id	"TP_CDM_ADAPTOR_PULL_DISC_BV_06"
Test Objective	Check that the IUT sends a PullRequest for IrregularMigrationIncidentService discovery when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 5.5 CISE Discovery mechanism ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 004 [1], clause 8.1.7 Discover ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 Uniquelidentifier Core Entity
PICS Selection	IUT_CDM_ADAPTOR and CDM_PULL and CDM_IRREGULAR_MIGRATION_INCIDENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value irregularMigrationIncidentService from the TEST_SYSTEM entity } then { the IUT sends a HTTP_REQUEST containing </pre>	


```

uri indicating value CDM_PULL_REQUEST_URI,
body containing
  vPullRequest containing
    MessageID indicating value MESSAGE_ID,
    CorrelationID indicating value CORRELATION_ID,
    CreationDateTime indicating value CURRENT_TIME,
    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    Sender containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull,
    PullType indicating value Discover,
    DiscoveryProfiles containing
      ServiceType indicating value irregularMigrationIncidentService,
      ResponseTimeout indicating value RESPONSE_TIMEOUT,
      Signature indicating value any_value
to the NODE entity
}
}

```

TP Id	"TP_CDM_ADAPTOR_PULL_DISC_BV_07"
Test Objective	Check that the IUT sends a PullRequest for LawInfringementIncidentService discovery when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 5.5 CISE Discovery mechanism ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 004 [1], clause 8.1.7 Discover ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_ADAPTOR and CDM_PULL and CDM_LAW_INFRINGEMENT_INCIDENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value lawInfringementIncidentService from the TEST_SYSTEM entity } then { the IUT sends a HTTP_REQUEST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value lawInfringementIncidentService, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value to the NODE entity } }	

TP Id	"TP_CDM_ADAPTOR_PULL_DISC_BV_08"
Test Objective	Check that the IUT sends a PullRequest for MeteoOceanographicConditionService discovery when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 5.5 CISE Discovery mechanism ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 004 [1], clause 8.1.7 Discover ETSI GS CDM 005 [2], clause 7.1.10.2.2 MeteoOceanographicCondition Class ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_ADAPTOR and CDM_PULL and CDM_METEO_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value meteoOceanographicConditionService from the TEST_SYSTEM entity } then { the IUT sends a HTTP_REQUEST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value meteoOceanographicConditionService, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value to the NODE entity } } } </pre>	

TP Id	"TP_CDM_ADAPTOR_PULL_DISC_BV_09"
Test Objective	Check that the IUT sends a PullRequest for OrganizationService discovery when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 5.5 CISE Discovery mechanism ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 004 [1], clause 8.1.7 Discover ETSI GS CDM 005 [2], clause 7.1.15.2.1 Organization Class (subclass of Agent) ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_ADAPTOR and CDM_PULL and CDM_ORGANIZATION_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value organizationService from the TEST_SYSTEM entity } then { the IUT sends a HTTP_REQUEST containing uri indicating value CDM_PULL_REQUEST_URI, body containing </pre>	

```

vPullRequest containing
  MessageID indicating value MESSAGE_ID,
  CorrelationID indicating value CORRELATION_ID,
  CreationDateTime indicating value CURRENT_TIME,
  Priority indicating value PRIORITY,
  RequiresAck indicating value false,
  Sender containing
    ServiceID indicating value SERVICE_ID,
    ServiceOperation indicating value Pull,
    PullType indicating value Discover,
    DiscoveryProfiles containing
      ServiceType indicating value organizationService,
      ResponseTimeout indicating value RESPONSE_TIMEOUT,
      Signature indicating value any_value
to the NODE entity
}
}

```

TP Id	"TP_CDM_ADAPTOR_PULL_DISC_BV_10"
Test Objective	Check that the IUT sends a PullRequest for RiskService discovery when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 5.5 CISE Discovery mechanism ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 004 [1], clause 8.1.7 Discover ETSI GS CDM 005 [2], clause .1.18 Risk Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniquelIdentifier Core Entity
PICS Selection	IUT_CDM_ADAPTOR and CDM_PULL and CDM_RISK_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value riskService from the TEST_SYSTEM entity } then { the IUT sends a HTTP_REQUEST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value riskService, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value to the NODE entity } } }	

TP Id	"TP_CDM_ADAPTOR_PULL_DISC_BV_11"
Test Objective	Check that the IUT sends a PullRequest for CargoService discovery when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 5.5 CISE Discovery mechanism ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 004 [1], clause 8.1.7 Discover ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_ADAPTOR and CDM_PULL and CDM_CARGO_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value cargoService from the TEST_SYSTEM entity } then { the IUT sends a HTTP_REQUEST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, PullType indicating value Discover, DiscoveryProfiles containing ServiceType indicating value cargoService, ResponseTimeout indicating value RESPONSE_TIMEOUT, Signature indicating value any_value to the NODE entity } }	

6.4.3 Push/Subscribe

TP Id	"TP_CDM_ADAPTOR_SUB_BV_01"
Test Objective	Check that the IUT sends a subscription for VesselService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_VESSEL_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Subscribe, SeaBasin indicating value SEA_BASIN, Requests containing ServiceType indicating value vesselService, SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR from the TEST_SYSTEM entity } then { the IUT sends a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing	

```

MessageID indicating value MESSAGE_ID,
CorrelationID indicating value CORRELATION_ID,
CreationDateTime indicating value CURRENT_TIME,
Priority indicating value PRIORITY,
RequiresAck indicating value false,
Sender containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value subscribe,
  ServiceType indicating value vesselService,
  SeaBasin indicating value SEA_BASIN,
Recipient containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value subscribe,
  ServiceType indicating value vesselService,
ResponseTimeout indicating value 1000,
PullType indicating value Subscribe,
Requests containing
  SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR,
Signature indicating value any_value
to the NODE entity
}
}

```

TP Id	"TP_CDM_ADAPTOR_SUB_BV_02"
Test Objective	Check that the IUT sends a subscription for ActionService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.3 Action Core Entity ETSI GS CDM 005 [2], clause 7.1.10 Location Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniquelIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_ACTION_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Subscribe, SeaBasin indicating value SEA_BASIN, Requests containing ServiceType indicating value actionService, SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR from the TEST_SYSTEM entity } then { the IUT sends a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value actionService, SeaBasin indicating value SEA_BASIN, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value actionService, ResponseTimeout indicating value 1000, PullType indicating value Subscribe, Requests containing SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR, Signature indicating value any_value to the NODE entity } } } </pre>	

TP Id	"TP_CDM_ADAPTOR_SUB_BV_03"
Test Objective	Check that the IUT sends a subscription for AnomalyService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.5 Anomaly Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_ANOMALY_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Subscribe, SeaBasin indicating value SEA_BASIN, Requests containing ServiceType indicating value anomalyService, SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR from the TEST_SYSTEM entity } then { the IUT sends a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value anomalyService, SeaBasin indicating value SEA_BASIN, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value anomalyService, ResponseTimeout indicating value 1000, PullType indicating value Subscribe, Requests containing SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR, Signature indicating value any_value to the NODE entity } } </pre>	

TP Id	"TP_CDM_ADAPTOR_SUB_BV_04"
Test Objective	Check that the IUT sends a subscription for CertificateDocumentService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.7 Document Core Entity
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_CERTIFICATE_DOCUMENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Subscribe, SeaBasin indicating value SEA_BASIN, Requests containing ServiceType indicating value certificateDocumentService, SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR from the TEST_SYSTEM entity } } </pre>	

```

then {
  the IUT receives a vPOST containing
    uri indicating value CDM_PULL_REQUEST_URI,
    body containing
      vPullRequest containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        CreationDateTime indicating value CURRENT_TIME,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        Sender containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value subscribe,
          ServiceType indicating value certificateDocumentService,
          SeaBasin indicating value SEA_BASIN,
        Recipient containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value subscribe,
          ServiceType indicating value certificateDocumentService,
          ResponseTimeout indicating value 1000,
          PullType indicating value Subscribe,
          Requests containing
            SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR,
            Signature indicating value any_value
    to the NODE entity
}
}

```

TP Id	"TP_CDM_ADAPTOR_SUB_BV_05"
Test Objective	Check that the IUT sends a subscription for IncidentService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_INCIDENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Subscribe, SeaBasin indicating value SEA_BASIN, Requests containing ServiceType indicating value incidentService, SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value incidentService, SeaBasin indicating value SEA_BASIN, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value incidentService, ResponseTimeout indicating value 1000, PullType indicating value Subscribe, Requests containing SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR, Signature indicating value any_value } } </pre>	

```

    to the NODE entity
  }
}

```

TP Id	"TP_CDM_ADAPTOR_SUB_BV_06"
Test Objective	Check that the IUT sends a subscription for IrregularMigrationIncidentService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_IRREGULAR_MIGRATION_INCIDENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Subscribe, SeaBasin indicating value SEA_BASIN, Requests containing ServiceType indicating value irregularMigrationIncidentService, SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value irregularMigrationIncidentService, SeaBasin indicating value SEA_BASIN, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value irregularMigrationIncidentService, ResponseTimeout indicating value 1000, PullType indicating value Subscribe, Requests containing SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR, Signature indicating value any_value to the NODE entity } } </pre>	

TP Id	"TP_CDM_ADAPTOR_SUB_BV_07"
Test Objective	Check that the IUT sends a subscription for LawInfringementIncidentService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_LAW_INFRINGEMENT_INCIDENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { </pre>	


```

the IUT isTriggeredToSend a PullRequest containing
  PullType indicating value Subscribe,
  SeaBasin indicating value SEA_BASIN,
  Requests containing
    ServiceType indicating value lawInfringementIncidentService,
    SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR
from the TEST_SYSTEM entity
}
then {
  the IUT receives a vPOST containing
    uri indicating value CDM_PULL_REQUEST_URI,
    body containing
      vPullRequest containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        CreationDateTime indicating value CURRENT_TIME,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        Sender containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value subscribe,
          ServiceType indicating value lawInfringementIncidentService,
          SeaBasin indicating value SEA_BASIN,
        Recipient containing
          ServiceID indicating value SERVICE_ID,
          ServiceOperation indicating value subscribe,
          ServiceType indicating value lawInfringementIncidentService,
          ResponseTimeout indicating value 1000,
          PullType indicating value Subscribe,
          Requests containing
            SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR,
            Signature indicating value any_value
to the NODE entity
}
}

```

TP Id	"TP_CDM_ADAPTOR_SUB_BV_08"
Test Objective	Check that the IUT sends a subscription for MeteoOceanographicConditionService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.10.2.2 MeteoOceanographicCondition Class ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_METEO_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Subscribe, SeaBasin indicating value SEA_BASIN, Requests containing ServiceType indicating value meteoOceanographicConditionService, SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value meteoOceanographicConditionService, SeaBasin indicating value SEA_BASIN, </pre>	

```

    Recipient containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value subscribe,
      ServiceType indicating value meteoOceanographicConditionService,
      ResponseTimeout indicating value 1000,
      PullType indicating value Subscribe,
      Requests containing
        SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR,
      Signature indicating value any_value
    to the NODE entity
  }
}

```

TP Id	"TP_CDM_ADAPTOR_SUB_BV_09"
Test Objective	Check that the IUT sends a subscription for OrganizationService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.10.2.2 MeteoOceanographicCondition Class ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_ORGANIZATION_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Subscribe, SeaBasin indicating value SEA_BASIN, Requests containing ServiceType indicating value organizationService, SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value organizationService, SeaBasin indicating value SEA_BASIN, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value organizationService, ResponseTimeout indicating value 1000, PullType indicating value Subscribe, Requests containing SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR, Signature indicating value any_value to the NODE entity } } </pre>	

TP Id	"TP_CDM_ADAPTOR_SUB_BV_10"
Test Objective	Check that the IUT sends a subscription for RiskService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.10.2.2 MeteoOceanographicCondition Class ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_RISK_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Subscribe, SeaBasin indicating value SEA_BASIN, Requests containing ServiceType indicating value riskService, SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value riskService, SeaBasin indicating value SEA_BASIN, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value riskService, ResponseTimeout indicating value 1000, PullType indicating value Subscribe, Requests containing SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR, Signature indicating value any_value to the NODE entity } } </pre>	

TP Id	"TP_CDM_ADAPTOR_SUB_BV_11"
Test Objective	Check that the IUT sends a subscription for CargoService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_SUBSCRIBE and CDM_CARGO_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Subscribe, SeaBasin indicating value SEA_BASIN, Requests containing ServiceType indicating value cargoService, SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR from the TEST_SYSTEM entity } } </pre>	

```

then {
  the IUT receives a vPOST containing
  uri indicating value CDM_PULL_REQUEST_URI,
  body containing
  vPullRequest containing
  MessageID indicating value MESSAGE_ID,
  CorrelationID indicating value CORRELATION_ID,
  CreationDateTime indicating value CURRENT_TIME,
  Priority indicating value PRIORITY,
  RequiresAck indicating value false,
  Sender containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value subscribe,
  ServiceType indicating value cargoService,
  SeaBasin indicating value SEA_BASIN,
  Recipient containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value subscribe,
  ServiceType indicating value cargoService,
  ResponseTimeout indicating value 1000,
  PullType indicating value Subscribe,
  Requests containing
  SubscriptionEnd indicating value CURENT_TIME_PLUS_ONE_HOUR,
  Signature indicating value any_value
  to the NODE entity
}
}

```

6.4.4 Push/Subscribe lookup

TP Id	"TP_CDM_ADAPTOR_SUB_LOOK_BV_01"
Test Objective	Check that the IUT sends a request of subscribers list for IncidentService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_INCIDENT_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT having a VESSEL_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value GetSubscribers, Requests containing ContextID indicating value CONTEXT_ID, ServiceType indicating value vesselService } from the TEST_SYSTEM entity } then { the IUT sends a vPOST containing uri indicating value URI_SUBSCRIBE_GET, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value vesselService, ServiceOperation indicating value Subscribe, PullType indicating value GetSubscribers, ResponseTimeout indicating value 1000, Signature indicating value any_value to the NODE entity } } </pre>	

TP Id	"TP_CDM_ADAPTOR_SUB_LOOK_BV_02"
Test Objective	Check that the IUT sends a request of subscribers list for ActionService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.8 Get Subscribers ETSI GS CDM 005 [2], clause 7.1.3 Action Core Entity ETSI GS CDM 005 [2], clause 7.1.10 Location Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_ACTION_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT having an ACTION_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }	
Expected Behaviour	
ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value GetSubscribers, Requests containing ContextID indicating value CONTEXT_ID, ServiceType indicating value actionService from the TEST_SYSTEM entity } then { the IUT sends a vPOST containing uri indicating value URI_SUBSCRIBE_GET, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value actionService, ServiceOperation indicating value Subscribe, PullType indicating value GetSubscribers, ResponseTimeout indicating value 1000, Signature indicating value any_value to the NODE entity } }	

TP Id	"TP_CDM_ADAPTOR_SUB_LOOK_BV_03"
Test Objective	Check that the IUT sends a request of subscribers list for AnomalyService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.8 Get Subscribers ETSI GS CDM 005 [2], clause 7.1.5 Anomaly Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_ANOMALY_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT having an ANOMALY_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }	
Expected Behaviour	
ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value GetSubscribers, Requests containing ContextID indicating value CONTEXT_ID, ServiceType indicating value anomalyService from the TEST_SYSTEM entity } then { the IUT sends a vPOST containing	

```

uri indicating value URI_SUBSCRIBE_GET,
body containing
  vPullRequest containing
    MessageID indicating value MESSAGE_ID,
    CorrelationID indicating value CORRELATION_ID,
    ContextID indicating value CONTEXT_ID,
    CreationDateTime indicating value CURRENT_TIME,
    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    Sender containing
      ServiceID indicating value SERVICE_ID,
      ServiceType indicating value anomalyService,
      ServiceOperation indicating value Subscribe,
      PullType indicating value GetSubscribers,
      ResponseTimeout indicating value 1000,
      Signature indicating value any_value
to the NODE entity
}
}

```

TP Id	"TP_CDM_ADAPTOR_SUB_LOOK_BV_04"
Test Objective	Check that the IUT sends a request of subscribers list for CertificateDocumentService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.8 Get Subscribers ETSI GS CDM 005 [2], clause 7.1.7 Document Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_CERTIFICATE_DOCUMENT_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT having a CERTIFICATE_DOCUMENT_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value GetSubscribers, Requests containing ContextID indicating value CONTEXT_ID, ServiceType indicating value certificateDocumentService from the TEST_SYSTEM entity } then { the IUT sends a vPOST containing uri indicating value URI_SUBSCRIBE_GET, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value certificateDocumentService, ServiceOperation indicating value Subscribe, PullType indicating value GetSubscribers, ResponseTimeout indicating value 1000, Signature indicating value any_value to the NODE entity } } </pre>	

TP Id	"TP_CDM_ADAPTOR_SUB_LOOK_BV_05"
Test Objective	Check that the IUT sends a request of subscribers list for IncidentService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.8 Get Subscribers ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_INCIDENT_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT having an INCIDENT_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value GetSubscribers, Requests containing ContextID indicating value CONTEXT_ID, ServiceType indicating value incidentService from the TEST_SYSTEM entity } then { the IUT sends a vPOST containing uri indicating value URI_SUBSCRIBE_GET, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value incidentService, ServiceOperation indicating value Subscribe, PullType indicating value GetSubscribers, ResponseTimeout indicating value 1000, Signature indicating value any_value to the NODE entity } }</pre>	

TP Id	"TP_CDM_ADAPTOR_SUB_LOOK_BV_06"
Test Objective	Check that the IUT sends a request of subscribers list for IrregularMigrationIncidentService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.8 Get Subscribers ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_IRREGULAR_MIGRATION_INCIDENT_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT having a IRREGULAR_MIGRATION_INCIDENT_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value GetSubscribers, Requests containing ContextID indicating value CONTEXT_ID, ServiceType indicating value irregularMigrationIncidentService from the TEST_SYSTEM entity } then { the IUT sends a vPOST containing</pre>	

```

uri indicating value URI_SUBSCRIBE_GET,
body containing
  vPullRequest containing
    MessageID indicating value MESSAGE_ID,
    CorrelationID indicating value CORRELATION_ID,
    ContextID indicating value CONTEXT_ID,
    CreationDateTime indicating value CURRENT_TIME,
    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    Sender containing
      ServiceID indicating value SERVICE_ID,
      ServiceType indicating value irregularMigrationIncidentService,
      ServiceOperation indicating value Subscribe,
      PullType indicating value GetSubscribers,
      ResponseTimeout indicating value 1000,
      Signature indicating value any_value
to the NODE entity
}
}

```

TP Id	"TP_CDM_ADAPTOR_SUB_LOOK_BV_07"
Test Objective	Check that the IUT sends a request of subscribers list for LawInfringementIncidentService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.8 Get Subscribers ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_LAW_INFRINGEMENT_INCIDENT_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT having a LAW_INFRINGEMENT_INCIDENT_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value GetSubscribers, Requests containing ContextID indicating value CONTEXT_ID, ServiceType indicating value lawInfringementIncidentService from the TEST_SYSTEM entity } then { the IUT sends a vPOST containing uri indicating value URI_SUBSCRIBE_GET, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value lawInfringementIncidentService, ServiceOperation indicating value Subscribe, PullType indicating value GetSubscribers, ResponseTimeout indicating value 1000, Signature indicating value any_value to the NODE entity } } } </pre>	

TP Id	"TP_CDM_ADAPTOR_SUB_LOOK_BV_08"
Test Objective	Check that the IUT sends a request of subscribers list for MeteoOceanographicConditionService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.8 Get Subscribers ETSI GS CDM 005 [2], clause 7.1.10.2.2 MeteoOceanographicCondition Class ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_METEO_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT having a METEO_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value GetSubscribers, Requests containing ContextID indicating value CONTEXT_ID, ServiceType indicating value meteoOceanographicConditionService from the TEST_SYSTEM entity } then { the IUT sends a vPOST containing uri indicating value URI_SUBSCRIBE_GET, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value meteoOceanographicConditionService, ServiceOperation indicating value Subscribe, PullType indicating value GetSubscribers, ResponseTimeout indicating value 1000, Signature indicating value any_value to the NODE entity } } }</pre>	

TP Id	"TP_CDM_ADAPTOR_SUB_LOOK_BV_09"
Test Objective	Check that the IUT sends a request of subscribers list for OrganizationService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.8 Get Subscribers ETSI GS CDM 005 [2], clause 7.1.15.2.1 Organization Class (subclass of Agent) ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_ORGANIZATION_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT having a ORGANIZATION_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value GetSubscribers, Requests containing ContextID indicating value CONTEXT_ID, ServiceType indicating value organizationService from the TEST_SYSTEM entity } then { the IUT sends a vPOST containing</pre>	

```

uri indicating value URI_SUBSCRIBE_GET,
body containing
  vPullRequest containing
    MessageID indicating value MESSAGE_ID,
    CorrelationID indicating value CORRELATION_ID,
    ContextID indicating value CONTEXT_ID,
    CreationDateTime indicating value CURRENT_TIME,
    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    Sender containing
      ServiceID indicating value SERVICE_ID,
      ServiceType indicating value organizationService,
      ServiceOperation indicating value Subscribe,
      PullType indicating value GetSubscribers,
      ResponseTimeout indicating value 1000,
      Signature indicating value any_value
to the NODE entity
}
}

```

TP Id	"TP_CDM_ADAPTOR_SUB_LOOK_BV_10"
Test Objective	Check that the IUT sends a request of subscribers list for RiskService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.8 Get Subscribers ETSI GS CDM 005 [2], clause 7.1.18 Risk Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_RISK_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT having a RISK_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value GetSubscribers, Requests containing ContextID indicating value CONTEXT_ID, ServiceType indicating value riskService from the TEST_SYSTEM entity } then { the IUT sends a vPOST containing uri indicating value URI_SUBSCRIBE_GET, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value riskService, ServiceOperation indicating value Subscribe, PullType indicating value GetSubscribers, ResponseTimeout indicating value 1000, Signature indicating value any_value to the NODE entity } } } </pre>	

TP Id	"TP_CDM_ADAPTOR_SUB_LOOK_BV_11"
Test Objective	Check that the IUT sends a request of subscribers list for CargoService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.8 Get Subscribers ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_CARGO_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT having a CARGO_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value GetSubscribers, Requests containing ContextID indicating value CONTEXT_ID, ServiceType indicating value cargoService from the TEST_SYSTEM entity } then { the IUT sends a vPOST containing uri indicating value URI_SUBSCRIBE_GET, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value cargoService, ServiceOperation indicating value Subscribe, PullType indicating value GetSubscribers, ResponseTimeout indicating value 1000, Signature indicating value any_value to the NODE entity } } }</pre>	

6.4.5 Push/Unsubscribe

TP Id	"TP_CDM_ADAPTOR_SUB_DELETE_BV_01"
Test Objective	Check that the IUT sends a request to delete subscription for RiskService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_RISK_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT having a VESSEL_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Unsubscribe, Requests containing ContextID indicating value CONTEXT_ID, ServiceType indicating value vesselService from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, </pre>	

```

body containing
  vPullRequest containing
    MessageID indicating value MESSAGE_ID,
    CorrelationID indicating value CORRELATION_ID,
    ContextID indicating value CONTEXT_ID,
    CreationDateTime indicating value CURRENT_TIME,
    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    Sender containing
      ServiceID indicating value SERVICE_ID,
      ServiceType indicating value vesselService,
      ServiceOperation indicating value subscribe,
    Recipient containing
      ServiceID indicating value SERVICE_ID,
      ServiceType indicating value vesselService,
      ServiceOperation indicating value subscribe,
    PullType indicating value Unsubscribe,
    Signature indicating value any_value
  to the NODE entity
}

```

TP Id	"TP_CDM_ADAPTOR_SUB_DELETE_BV_02"
Test Objective	Check that the IUT sends a request to delete subscription for ActionService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_ACTION_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT having a ACTION_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Unsubscribe, Requests containing ContextID indicating value CONTEXT_ID, ServiceType indicating value actionService from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value actionService, ServiceOperation indicating value subscribe, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value actionService, ServiceOperation indicating value subscribe, PullType indicating value Unsubscribe, Signature indicating value any_value to the NODE entity } } } </pre>	

TP Id	"TP_CDM_ADAPTOR_SUB_DELETE_BV_03"
Test Objective	Check that the IUT sends a request to delete subscription for AnomalyService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_ANOMALY_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT having a ANOMALY_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Unsubscribe, Requests containing ContextID indicating value CONTEXT_ID, ServiceType indicating value anomalyService from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value anomalyService, ServiceOperation indicating value subscribe, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value anomalyService, ServiceOperation indicating value subscribe, PullType indicating value Unsubscribe, Signature indicating value any_value to the NODE entity } } }</pre>	

TP Id	"TP_CDM_ADAPTOR_SUB_DELETE_BV_04"
Test Objective	Check that the IUT sends a request to delete subscription for CertificateDocumentService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_CERTIFICATE_DOCUMENT_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT having a CERTIFICATE_DOCUMENT_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Unsubscribe, Requests containing ContextID indicating value CONTEXT_ID, ServiceType indicating value certificateDocumentService from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing</pre>	

```

vPullRequest containing
  MessageID indicating value MESSAGE_ID,
  CorrelationID indicating value CORRELATION_ID,
  ContextID indicating value CONTEXT_ID,
  CreationDateTime indicating value CURRENT_TIME,
  Priority indicating value PRIORITY,
  RequiresAck indicating value false,
  Sender containing
    ServiceID indicating value SERVICE_ID,
    ServiceType indicating value certificateDocumentService,
    ServiceOperation indicating value subscribe,
  Recipient containing
    ServiceID indicating value SERVICE_ID,
    ServiceType indicating value certificateDocumentService,
    ServiceOperation indicating value subscribe,
  PullType indicating value Unsubscribe,
  Signature indicating value any_value
to the NODE entity
}
}

```

TP Id	"TP_CDM_ADAPTOR_SUB_DELETE_BV_05"
Test Objective	Check that the IUT sends a request to delete subscription for IncidentService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_INCIDENT_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT having a CERTIFICATE_DOCUMENT_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Unsubscribe, Requests containing ContextID indicating value CONTEXT_ID, ServiceType indicating value incidentService from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value incidentService, ServiceOperation indicating value subscribe, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value incidentService, ServiceOperation indicating value subscribe, PullType indicating value Unsubscribe, Signature indicating value any_value to the NODE entity } } } </pre>	

TP Id	"TP_CDM_ADAPTOR_SUB_DELETE_BV_06"
Test Objective	Check that the IUT sends a request to delete subscription for IrregularMigrationIncidentService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_IRREGULAR_MIGRATION_INCIDENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT having a IRREGULAR_MIGRATION_INCIDENT_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }	
Expected Behaviour	
ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Unsubscribe, Requests containing ContextID indicating value CONTEXT_ID, ServiceType indicating value irregularMigrationIncidentService from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value irregularMigrationIncidentService, ServiceOperation indicating value subscribe, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value irregularMigrationIncidentService, ServiceOperation indicating value subscribe, PullType indicating value Unsubscribe, Signature indicating value any_value to the NODE entity } }	

TP Id	"TP_CDM_ADAPTOR_SUB_DELETE_BV_07"
Test Objective	Check that the IUT sends a request to delete subscription for LawInfringementIncidentService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_LAW_INFRINGEMENT_INCIDENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT having a LAW_INFRINGEMENT_INCIDENT_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }	
Expected Behaviour	
ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Unsubscribe, Requests containing ContextID indicating value CONTEXT_ID, ServiceType indicating value lawInfringementIncidentService from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, }	

```

body containing
  vPullRequest containing
    MessageID indicating value MESSAGE_ID,
    CorrelationID indicating value CORRELATION_ID,
    ContextID indicating value CONTEXT_ID,
    CreationDateTime indicating value CURRENT_TIME,
    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    Sender containing
      ServiceID indicating value SERVICE_ID,
      ServiceType indicating value lawInfringementIncidentService,
      ServiceOperation indicating value subscribe,
    Recipient containing
      ServiceID indicating value SERVICE_ID,
      ServiceType indicating value lawInfringementIncidentService,
      ServiceOperation indicating value subscribe,
    PullType indicating value Unsubscribe,
    Signature indicating value any_value
  to the NODE entity
}

```

TP Id	"TP_CDM_ADAPTOR_SUB_DELETE_BV_08"
Test Objective	Check that the IUT sends a request to delete subscription for MeteoOceanographicConditionService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_METEO_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT having a METEO_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Unsubscribe, Requests containing ContextID indicating value CONTEXT_ID, ServiceType indicating value meteoOceanographicConditionService from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value meteoOceanographicConditionService, ServiceOperation indicating value subscribe, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value meteoOceanographicConditionService, ServiceOperation indicating value subscribe, PullType indicating value Unsubscribe, Signature indicating value any_value to the NODE entity } } } </pre>	

TP Id	"TP_CDM_ADAPTOR_SUB_DELETE_BV_09"
Test Objective	Check that the IUT sends a request to delete subscription for OrganizationService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_ORGANIZATION_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT having a ORGANIZATION_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Unsubscribe, Requests containing ContextID indicating value CONTEXT_ID, ServiceType indicating value organizationService from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value organizationService, ServiceOperation indicating value subscribe, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value organizationService, ServiceOperation indicating value subscribe, PullType indicating value Unsubscribe, Signature indicating value any_value to the NODE entity } } }</pre>	

TP Id	"TP_CDM_ADAPTOR_SUB_DELETE_BV_10"
Test Objective	Check that the IUT sends a request to delete subscription for RiskService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_RISK_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT having a RISK_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Unsubscribe, Requests containing ContextID indicating value CONTEXT_ID, ServiceType indicating value riskService from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing</pre>	

```

MessageID indicating value MESSAGE_ID,
CorrelationID indicating value CORRELATION_ID,
ContextID indicating value CONTEXT_ID,
CreationDateTime indicating value CURRENT_TIME,
Priority indicating value PRIORITY,
RequiresAck indicating value false,
Sender containing
    ServiceID indicating value SERVICE_ID,
    ServiceType indicating value riskService,
    ServiceOperation indicating value subscribe,
Recipient containing
    ServiceID indicating value SERVICE_ID,
    ServiceType indicating value riskService,
    ServiceOperation indicating value subscribe,
PullType indicating value Unsubscribe,
Signature indicating value any_value
to the NODE entity
}
    }

```

TP Id	"TP_CDM_ADAPTOR_SUB_DELETE_BV_11"
Test Objective	Check that the IUT sends a request to delete subscription for CargoService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.3 Pull ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_CARGO_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT having a CARGO_SERVICE_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a PullRequest containing PullType indicating value Unsubscribe, Requests containing ContextID indicating value CONTEXT_ID, ServiceType indicating value cargoService from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, ContextID indicating value CONTEXT_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceType indicating value cargoService, ServiceOperation indicating value subscribe, Recipient containing ServiceID indicating value SERVICE_ID, ServiceType indicating value cargoService, ServiceOperation indicating value subscribe, PullType indicating value Unsubscribe, Signature indicating value any_value to the NODE entity } } } </pre>	

6.4.6 Push/Notify

TP Id	"TP_CDM_ADAPTOR_PUSH_NOT_BV_01_01"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment with an error code response when receiving a Push for notification for an unknown subscription for VesselService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_VESSEL_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT having a VESSEL_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value VesselService, ServiceRole indicating value Provider, Payload containing Vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE, Reliability indicating value HighReliability, Signature indicating value any_value to the NODE entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, DiscoveredServices containing ServiceID indicating value SERVICE_ID_CONSUMER to the NODE entity } } }</pre>	

TP Id	"TP_CDM_ADAPTOR_PUSH_NOT_BV_01_02"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment with an error code response when receiving a Push for notification for an unknown subscription for VesselService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_VESSEL_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT not having a VESSEL_SUBSCRIPTION }</pre>	
Expected Behaviour	
<pre>ensure that { when {</pre>	

```

the IUT receives a vPOST containing
  uri indicating value CDM_PUSH_REQUEST_URI,
  body containing
    vPush containing
      MessageID indicating value MESSAGE_ID,
      CorrelationID indicating value CORRELATION_ID,
      CreationDateTime indicating value CURRENT_TIME,
      Priority indicating value PRIORITY,
      RequiresAck indicating value false,
      Sender containing
        ServiceID indicating value SERVICE_ID,
        ServiceOperation indicating value subscribe,
        ServiceType indicating value VesselService,
        ServiceRole indicating value Provider,
      Payload containing
        Vessel containing
          IMONumber indicating value VESSEL_IMO_NUMBER,
          Name indicating value VESSEL_NAME,
          Location indicating value VESSEL_LOCATION,
          ShipType indicating value VESSEL_SHIP_TYPE,
          Reliability indicating value HighReliability,
          Signature indicating value any_value
    from the NODE entity
  }
then {
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "200 OK"
    body containing
      vAcknowledgment containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        AckCode indicating value badRequest
  to the NODE entity
}
}

```

TP Id	"TP_CDM_ADAPTOR_PUSH_NOT_BV_02"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Push for notification for ActionService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.3 Action Core Entity ETSI GS CDM 005 [2], clause 7.1.10 Location Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_ACTION_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT having a ACTION_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value ActionService, ServiceRole indicating value Provider, Payload containing Action containing ActionType indicating value "Rescue", ActionStatus indicating value "InProgress", </pre>	

```

        Mission indicating value nonSpecified,
        Priority indicating value High,
        Location indicating value VESSEL_LOCATION,
        Agent containing
            identifier indicating value AGENT_IDENTIFIER,
        Reliability indicating value HighReliability,
        Signature indicating value any_value
    to the NODE entity
}
then {
    the IUT sends a HTTP_RESPONSE containing
        status_code set to "200 OK"
        body containing
            vAcknowledgment containing
                MessageID indicating value MESSAGE_ID,
                CorrelationID indicating value CORRELATION_ID,
                Priority indicating value PRIORITY,
                RequiresAck indicating value false,
                AckCode indicating value Success,
                DiscoveredServices containing
                    ServiceID indicating value SERVICE_ID_CONSUMER
            to the NODE entity
}
}
}

```

TP Id	"TP_CDM_ADAPTOR_PUSH_NOT_BV_03"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Push for notification for AnomalyService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.5 Anomaly Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_ANOMALY_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT having a ANOMALY_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value AnomalyService, ServiceRole indicating value Provider, Payload containing Anomaly containing AnomalyType indicating value "VesselOutOfTrafficLanes", NatureType indicating value "Observed", Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER, Reliability indicating value HighReliability, Signature indicating value any_value to the NODE entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, </pre>	

```

Priority indicating value PRIORITY,
RequiresAck indicating value false,
AckCode indicating value Success,
DiscoveredServices containing
  ServiceID indicating value SERVICE_ID_CONSUMER
to the NODE entity
}
}

```

TP Id	"TP_CDM_ADAPTOR_PUSH_NOT_BV_04"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Push for notification for CertificateDocumentService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.7 Document Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_CERTIFICATE_DOCUMENT_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState and the IUT having a CERTIFICATE_DOCUMENT_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value CertificateDocumentService, ServiceRole indicating value Provider, Payload containing Document containing Content indicating value RAW_DOCUMENT, Hash indicating value SHA_256_RAW_DOCUMENT, ReferenceURI indicating value REFERENCE_URI, Location indicating value VESSE_LOCATION, Reliability indicating value HighReliability, Signature indicating value any_value to the NODE entity } } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, DiscoveredServices containing ServiceID indicating value SERVICE_ID_CONSUMER to the NODE entity } } } } </pre>	

TP Id	"TP_CDM_ADAPTOR_PUSH_NOT_BV_05"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Push for notification for IncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_INCIDENT_SERVICE
Initial Conditions	
<pre>with { the IUT isIdleState and the IUT having a INCIDENT_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value IncidentService, ServiceRole indicating value Provider, Payload containing Incident containing Identifier containing GeneratedIn indicating value any_value, UUID indicating value any_value, SickAnimalOnBoard indicating value "true", // Add test for the other features UrgencyType indicating value "Immediate", SeverityType indicating value "Moderate", Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER, Reliability indicating value HighReliability, Signature indicating value any_value to the NODE entity } } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, DiscoveredServices containing ServiceID indicating value SERVICE_ID_CONSUMER to the NODE entity } } } }</pre>	

TP Id	"TP_CDM_ADAPTOR_PUSH_NOT_BV_06"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Push for notification for IrregularMigrationIncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_IRREGULAR_MIGRATION_INCIDENT_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT having a IRREGULAR_MIGRATION_INCIDENT_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value IrregularMigrationIncidentService, ServiceRole indicating value Provider, Payload containing IrregularMigrationIncident containing identifier indicating value any_value, UrgencyType indicating value "Immediate", IrregularMigrationIncidentType indicating value "nonSpecified", Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER, Reliability indicating value HighReliability, Signature indicating value any_value to the NODE entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, DiscoveredServices containing ServiceID indicating value SERVICE_ID_CONSUMER to the NODE entity } } }</pre>	

TP Id	"TP_CDM_ADAPTOR_PUSH_NOT_BV_07"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Push for notification for LawInfringementIncidentService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_LAW_INFRINGEMENT_INCIDENT_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT having a LAW_INFRINGEMENT_INCIDENT_SUBSCRIPTION containing</pre>	

<pre>ContextID indicating value CONTEXT_ID } }</pre>
Expected Behaviour
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value LawInfringementIncidentService, ServiceRole indicating value Provider, Payload containing LawInfringementIncident containing identifier indicating value any_value, UrgencyType indicating value "Immediate", LawInfringementIncidentType indicating value "nonSpecified", Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER, Reliability indicating value HighReliability, Signature indicating value any_value to the NODE entity } } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, DiscoveredServices containing ServiceID indicating value SERVICE_ID_CONSUMER to the NODE entity } } } }</pre>

TP Id	"TP_CDM_ADAPTOR_PUSH_NOT_BV_08"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Push for notification for MeteoOceanographicConditionService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.10.2.2 MeteoOceanographicCondition Class ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_METEO_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT having a METEO_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID } }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing</pre>	

```

ServiceID indicating value SERVICE_ID,
ServiceOperation indicating value subscribe,
ServiceType indicating value MeteoOceanographicConditionService,
ServiceRole indicating value Provider,
Payload containing
  MeteoOceanographicCondition containing
    AirTemperature indicating value any_value,
    WindCurrentDirection indicating value any_value,
    WindCurrentSpeed indicating value any_value,
    Location indicating value VESSEL_LOCATION,
    Reliability indicating value HighReliability,
    Signature indicating value any_value
to the NODE entity
}
then {
  the IUT sends a HTTP_RESPONSE containing
    status_code set to "200 OK"
    body containing
      vAcknowledgment containing
        MessageID indicating value MESSAGE_ID,
        CorrelationID indicating value CORRELATION_ID,
        Priority indicating value PRIORITY,
        RequiresAck indicating value false,
        AckCode indicating value Success,
        DiscoveredServices containing
          ServiceID indicating value SERVICE_ID_CONSUMER
to the NODE entity
}
}

```

TP Id	"TP_CDM_ADAPTOR_PUSH_NOT_BV_09"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Push for notification for OrganizationService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.10.2.2 MeteoOceanographicCondition Class ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_ORGANIZATION_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT having a ORGANIZATION_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value OrganizationService, ServiceRole indicating value Provider, Payload containing Organization containing Identifier indicating value any_value, OrganizationRole indicating value "portAuthority", Location indicating value VESSEL_LOCATION Agent containing identifier indicating value AGENT_IDENTIFIER, Reliability indicating value HighReliability, Signature indicating value any_value to the NODE entity } } then { the IUT sends a HTTP_RESPONSE containing	

```

status_code set to "200 OK"
body containing
  vAcknowledgment containing
    MessageID indicating value MESSAGE_ID,
    CorrelationID indicating value CORRELATION_ID,
    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    AckCode indicating value Success,
    DiscoveredServices containing
      ServiceID indicating value SERVICE_ID_CONSUMER
to the NODE entity
}
}

```

TP Id	"TP_CDM_ADAPTOR_PUSH_NOT_BV_10"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Push for notification for RiskService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.18 Risk Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_RISK_SERVICE
Initial Conditions	
with { the IUT isInIdleState and the IUT having a RISK_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value RiskService, ServiceRole indicating value Provider, Payload containing Risk containing Identifier indicating value any_value, RiskLevel indicating value high, RiskProbability indicating value probable, RiskSeverity indicating value critical, Location indicating value VESSEL_LOCATION Agent containing identifier indicating value AGENT_IDENTIFIER, Reliability indicating value HighReliability, Signature indicating value any_value to the NODE entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, DiscoveredServices containing ServiceID indicating value SERVICE_ID_CONSUMER to the NODE entity } }	

TP Id	"TP_CDM_ADAPTOR_PUSH_NOT_BV_11"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response when receiving a Push for notification for CargoService
Reference	ETSI GS CDM 004 [1], clause 5.4.6 Publish/Subscribe ETSI GS CDM 004 [1], clause 8.1.2 Push ETSI GS CDM 004 [1], clause 8.1.6 Publish/Subscribe ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_PUSH and CDM_CARGO_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState and the IUT having a CARGO_SUBSCRIPTION containing ContextID indicating value CONTEXT_ID }</pre>	
Expected Behaviour	
<pre>ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PUSH_REQUEST_URI, body containing vPush containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value subscribe, ServiceType indicating value CargoService, ServiceRole indicating value Provider, Payload containing Cargo containing CargoType indicating value CARGO_TYPE, Reliability indicating value HighReliability, Signature indicating value any_value to the NODE entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, AckCode indicating value Success, DiscoveredServices containing ServiceID indicating value SERVICE_ID_CONSUMER to the NODE entity } } }</pre>	

6.4.7 Asynchronous Acknowledgement

Void.

6.4.8 Feedback

TP Id	"TP_CDM_ADAPTOR_FEEDBACK_BV_01"
Test Objective	Check that the IUT sends a Feedback for VesselService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.20 Vessel Core Entity
PICS Selection	IUT_CDM_NODE and CDM_FEEDBACK and CDM_VESSEL_SERVICE
Initial Conditions	
<pre>with { the IUT isInIdleState }</pre>	

Expected Behaviour
<pre> ensure that { when { the IUT isTriggeredToSend a Feedback containing Vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_FEEDBACK_REQUEST_URI, body containing vFeedback containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value true, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Feedback, ServiceType indicating value vesselService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing Vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION, ShipType indicating value VESSEL_SHIP_TYPE, Signature indicating value any_value, FeedbackType indicating value Info, Reason indicating value ShipTypeChange, RefMessageID indicating value REF_MESSAGE_ID to the NODE entity } } } </pre>

TP Id	"TP_CDM_ADAPTOR_FEEDBACK_BV_02"
Test Objective	Check that the IUT sends a Feedback for ActionService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.3 Action Core Entity ETSI GS CDM 005 [2], clause 7.1.10 Location Core Entity ETSI GS CDM 005 [2], clause 7.1.19 Uniquelidentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_FEEDBACK and CDM_ACTION_SERVICE
Initial Conditions	
<pre> with { the IUT isInIdleState } </pre>	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a Feedback containing Action containing IMONumber indicating value ACTION_IMO_NUMBER, Name indicating value ACTION_NAME, Location indicating value ACTION_LOCATION, ShipType indicating value ACTION_SHIP_TYPE from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_FEEDBACK_REQUEST_URI, body containing vFeedback containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, </pre>	

```

RequiresAck indicating value true,
Sender containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value Feedback,
  ServiceType indicating value actionService,
Recipient containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value Pull,
Payload containing
  Action containing
    IMONumber indicating value ACTION_IMO_NUMBER,
    Name indicating value ACTION_NAME,
    Location indicating value ACTION_LOCATION,
    ShipType indicating value ACTION_SHIP_TYPE,
  Signature indicating value any_value,
  FeedbackType indicating value Info,
  Reason indicating value ShipTypeChange,
  RefMessageID indicating value REF_MESSAGE_ID
to the NODE entity
}
}

```

TP Id	"TP_CDM_ADAPTOR_FEEDBACK_BV_03"
Test Objective	Check that the IUT sends a Feedback for AnomalyService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.5 Anomaly Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_FEEDBACK and CDM_ANOMALY_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a Feedback containing Anomaly containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_FEEDBACK_REQUEST_URI, body containing vFeedback containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value true, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Feedback, ServiceType indicating value anomalyService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing Anomaly containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE, Signature indicating value any_value, FeedbackType indicating value Info, Reason indicating value ShipTypeChange, RefMessageID indicating value REF_MESSAGE_ID to the NODE entity } } } </pre>	

TP Id	"TP_CDM_ADAPTOR_FEEDBACK_BV_04"
Test Objective	Check that the IUT sends a Feedback for CertificateDocumentService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.7 Document Core Entity
PICS Selection	IUT_CDM_NODE and CDM_FEEDBACK and CDM_CERTIFICATE_DOCUMENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
ensure that { when { the IUT isTriggeredToSend a Feedback containing certificateDocument containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_FEEDBACK_REQUEST_URI, body containing vFeedback containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value true, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Feedback, ServiceType indicating value certificateDocumentService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing certificateDocument containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE, Signature indicating value any_value, FeedbackType indicating value Info, Reason indicating value ShipTypeChange, RefMessageID indicating value REF_MESSAGE_ID to the NODE entity } }	

TP Id	"TP_CDM_ADAPTOR_FEEDBACK_BV_05"
Test Objective	Check that the IUT sends a Feedback for IncidentService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_FEEDBACK and CDM_INCIDENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
ensure that { when { the IUT isTriggeredToSend a Feedback containing Incident containing Identifier containing	

```

GeneratedIn indicating value any_value,
UUID indicating value any_value,
SickAnimalOnBoard indicating value "true", // Add test for the other features
UrgencyType indicating value "Immediate",
SeverityType indicating value "Moderate",
Location indicating value VESSEL_LOCATION,
Agent containing
    identifier indicating value AGENT_IDENTIFIER
from the TEST_SYSTEM entity
}
then {
the IUT receives a vPOST containing
uri indicating value CDM_FEEDBACK_REQUEST_URI,
body containing
vFeedback containing
MessageID indicating value MESSAGE_ID,
CorrelationID indicating value CORRELATION_ID,
CreationDateTime indicating value CURRENT_TIME,
Priority indicating value PRIORITY,
RequiresAck indicating value true,
Sender containing
    ServiceID indicating value SERVICE_ID,
    ServiceOperation indicating value Feedback,
    ServiceType indicating value incidentService,
Recipient containing
    ServiceID indicating value SERVICE_ID,
    ServiceOperation indicating value Pull,
Payload containing
    Incident containing
        Identifier containing
            GeneratedIn indicating value any_value,
            UUID indicating value any_value,
            SickAnimalOnBoard indicating value "true", // Add test for the other features
            UrgencyType indicating value "Immediate",
            SeverityType indicating value "Moderate",
            Location indicating value VESSEL_LOCATION,
            Agent containing
                identifier indicating value AGENT_IDENTIFIER,
            Signature indicating value any_value,
            FeedbackType indicating value Info,
            Reason indicating value ShipTypeChange,
            RefMessageID indicating value REF_MESSAGE_ID
        to the NODE entity
    }
}
}

```

TP Id	"TP_CDM_ADAPTOR_FEEDBACK_BV_06"
Test Objective	Check that the IUT sends a Feedback for IrregularMigrationIncident when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_FEEDBACK and CDM_IRREGULAR_MIGRATION_INCIDENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
ensure that { when { the IUT isTriggeredToSend a Feedback containing irregularMigrationIncident containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_FEEDBACK_REQUEST_URI, body containing vFeedback containing	


```

MessageID indicating value MESSAGE_ID,
CorrelationID indicating value CORRELATION_ID,
CreationDateTime indicating value CURRENT_TIME,
Priority indicating value PRIORITY,
RequiresAck indicating value true,
Sender containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value Feedback,
  ServiceType indicating value irregularMigrationIncident,
Recipient containing
  ServiceID indicating value SERVICE_ID,
  ServiceOperation indicating value Pull,
Payload containing
  irregularMigrationIncident containing
    IMONumber indicating value ANOMALY_IMO_NUMBER,
    Name indicating value ANOMALY_NAME,
    Location indicating value ANOMALY_LOCATION,
    ShipType indicating value ANOMALY_SHIP_TYPE,
  Signature indicating value any_value,
  FeedbackType indicating value Info,
  Reason indicating value ShipTypeChange,
  RefMessageID indicating value REF_MESSAGE_ID
to the NODE entity
}
}

```

TP Id	"TP_CDM_ADAPTOR_FEEDBACK_BV_07"
Test Objective	Check that the IUT sends a Feedback for LawInfringementIncidentService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.9 Incident Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_FEEDBACK and CDM_LAW_INFRINGEMENT_INCIDENT_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a Feedback containing lawInfringementIncident containing identifier indicating value any_value, UrgencyType indicating value "Immediate", LawInfringementIncidentType indicating value "nonSpecified", Location indicating value VESSEL_LOCATION, Agent containing identifier indicating value AGENT_IDENTIFIER from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_FEEDBACK_REQUEST_URI, body containing vFeedback containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value true, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Feedback, ServiceType indicating value lawInfringementIncidentService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing lawInfringementIncident containing identifier indicating value any_value, UrgencyType indicating value "Immediate", LawInfringementIncidentType indicating value "nonSpecified", Location indicating value VESSEL_LOCATION, </pre>	

```

    Agent containing
      identifier indicating value AGENT_IDENTIFIER,
      Signature indicating value any_value,
      FeedbackType indicating value Info,
      Reason indicating value ShipTypeChange,
      RefMessageID indicating value REF_MESSAGE_ID
    to the NODE entity
  }
}

```

TP Id	"TP_CDM_ADAPTOR_FEEDBACK_BV_08"
Test Objective	Check that the IUT sends a Feedback for MeteoOceanographicConditionService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.10.2.2 MeteoOceanographicCondition Class ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_FEEDBACK and CDM_METEO_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a Feedback containing meteoOceanographicConditionService containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_FEEDBACK_REQUEST_URI, body containing vFeedback containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value true, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Feedback, ServiceType indicating value meteoOceanographicConditionService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing meteoOceanographicConditionService containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE, Signature indicating value any_value, FeedbackType indicating value Info, Reason indicating value ShipTypeChange, RefMessageID indicating value REF_MESSAGE_ID to the NODE entity } } } </pre>	

TP Id	"TP_CDM_ADAPTOR_FEEDBACK_BV_09"
Test Objective	Check that the IUT sends a Feedback for OrganizationService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.10.2.2 MeteoOceanographicCondition Class ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_FEEDBACK and CDM_ORGANIZATION_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a Feedback containing organization containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_FEEDBACK_REQUEST_URI, body containing vFeedback containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value true, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Feedback, ServiceType indicating value organizationService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing organization containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE, Signature indicating value any_value, FeedbackType indicating value Info, Reason indicating value ShipTypeChange, RefMessageID indicating value REF_MESSAGE_ID to the NODE entity } } </pre>	

TP Id	"TP_CDM_ADAPTOR_FEEDBACK_BV_10"
Test Objective	Check that the IUT sends a Feedback for RiskService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.18 Risk Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_FEEDBACK and CDM_RISK_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT isTriggeredToSend a Feedback containing risk containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, </pre>	

```

        Location indicating value ANOMALY_LOCATION,
        ShipType indicating value ANOMALY_SHIP_TYPE
    from the TEST_SYSTEM entity
}
then {
    the IUT receives a vPOST containing
    uri indicating value CDM_FEEDBACK_REQUEST_URI,
    body containing
    vFeedback containing
    MessageID indicating value MESSAGE_ID,
    CorrelationID indicating value CORRELATION_ID,
    CreationDateTime indicating value CURRENT_TIME,
    Priority indicating value PRIORITY,
    RequiresAck indicating value true,
    Sender containing
    ServiceID indicating value SERVICE_ID,
    ServiceOperation indicating value Feedback,
    ServiceType indicating value riskService,
    Recipient containing
    ServiceID indicating value SERVICE_ID,
    ServiceOperation indicating value Pull,
    Payload containing
    risk containing
    IMONumber indicating value ANOMALY_IMO_NUMBER,
    Name indicating value ANOMALY_NAME,
    Location indicating value ANOMALY_LOCATION,
    ShipType indicating value ANOMALY_SHIP_TYPE,
    Signature indicating value any_value,
    FeedbackType indicating value Info,
    Reason indicating value ShipTypeChange,
    RefMessageID indicating value REF_MESSAGE_ID
    to the NODE entity
}
}

```

TP Id	"TP_CDM_ADAPTOR_FEEDBACK_BV_11"
Test Objective	Check that the IUT sends a Feedback for CargoService when triggered
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism ETSI GS CDM 005 [2], clause 7.1.6 Cargo Core Entity ETSI GS CDM 005 [2], clause 7.1.19 UniqueIdentifier Core Entity
PICS Selection	IUT_CDM_NODE and CDM_FEEDBACK and CDM_CARGO_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
ensure that { when { the IUT isTriggeredToSend a Feedback containing cargo containing IMONumber indicating value ANOMALY_IMO_NUMBER, Name indicating value ANOMALY_NAME, Location indicating value ANOMALY_LOCATION, ShipType indicating value ANOMALY_SHIP_TYPE from the TEST_SYSTEM entity } then { the IUT receives a vPOST containing uri indicating value CDM_FEEDBACK_REQUEST_URI, body containing vMessage containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value true, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Feedback, ServiceType indicating value cargoService, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull,	

```

    Payload containing
    cargo containing
      IMONumber indicating value ANOMALY_IMO_NUMBER,
      Name indicating value ANOMALY_NAME,
      Location indicating value ANOMALY_LOCATION,
      ShipType indicating value ANOMALY_SHIP_TYPE,
      Signature indicating value any_value,
      FeedbackType indicating value Info,
      Reason indicating value ShipTypeChange,
      RefMessageID indicating value REF_MESSAGE_ID
    to the NODE entity
  }
}

```

6.5 Security

TP Id	"TP_CDM_NODE_SEC_BV_01"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment with Success when it receives a sign message
Reference	ETSI GS CDM 004 [1], clause 8.1.10 Message Signature
PICS Selection	IUT_CDM_NODE and CDM_VESSEL_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing Signature containing SignedInfo containing CanonicalizationMethod containing Algorithm indicating value "http://www.w3.org/2001/10/xml-exc-c14n#", SignatureMethod containing Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#rsa-sha1", Reference_ indicating value any_value, Transforms containing Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#enveloped- signature", DigestMethod containing Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#sha1", DigestValue indicating value any_value, SignatureValue indicating value any_value, KeyInfo containing X509Data containing X509SubjectName indicating value SIGNING_CERT_SUBJECT, X509Certificate indicating value SIGNING_CERT from the ADAPTOR entity } } } } } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, AckCode indicating value Success, Signature indicating value any_value to the ADAPTOR entity } } } } </pre>	

TP Id	"TP_CDM_NODE_SEC_BO_01"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment with InvalidSignature when it receives a message with a corrupted signature
Reference	ETSI GS CDM 004 [1], clause 8.1.10 Message Signature
PICS Selection	IUT_CDM_NODE and CDM_VESSEL_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing Signature containing SignedInfo containing CanonicalizationMethod containing Algorithm indicating value "http://www.w3.org/2001/10/xml-exc-c14n#", SignatureMethod containing Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#rsa-sha1", Reference_ indicating value any_value, Transforms containing Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#enveloped-signature", DigestMethod containing Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#sha1", DigestValue indicating value any_value, SignatureValue indicating value corrupted_signature_value, KeyInfo containing X509Data containing X509SubjectName indicating value SIGNING_CERT_SUBJECT, X509Certificate indicating value SIGNING_CERT from the ADAPTOR entity } } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, AckCode indicating value InvalidSignature, Signature indicating value any_value to the ADAPTOR entity } } } } </pre>	

TP Id	"TP_CDM_NODE_SEC_BO_02"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment with InvalidSignature when it receives a message with a corrupted certificate
Reference	ETSI GS CDM 004 [1], clause 8.1.10 Message Signature
PICS Selection	IUT_CDM_NODE and CDM_VESSEL_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing Signature containing SignedInfo containing </pre>	

```

CanonicalizationMethod containing
  Algorithm indicating value "http://www.w3.org/2001/10/xml-exc-c14n#",
SignatureMethod containing
  Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#rsa-sha1",
Reference_ indicating value any_value,
Transforms containing
  Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#enveloped-
signature",
DigestMethod containing
  Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#sha1",
  DigestValue indicating value any_value,
SignatureValue indicating value any_value,
KeyInfo containing
  X509Data containing
    X509SubjectName indicating value SIGNING_CERT_SUBJECT,
    X509Certificate indicating value SIGNING_CERT
from the ADAPTOR entity
}
then {
  the IUT sends a HTTP_RESPONSE containing
  status_code set to "200 OK"
  body containing
  vAcknowledgment containing
    MessageID indicating value MESSAGE_ID,
    CorrelationID indicating value CORRELATION_ID,
    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    Sender containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull
    ,
    Recipient containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull
    ,
    AckCode indicating value InvalidSignature,
    Signature indicating value any_value

  to the ADAPTOR entity
}
}

```

TP Id	"TP_CDM_NODE_SEC_BO_03"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment with InvalidSignature when it receives a message sign with corrupted digest
Reference	ETSI GS CDM 004 [1], clause 8.1.10 Message Signature
PICS Selection	IUT_CDM_NODE and CDM_VESSEL_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing Signature containing SignedInfo containing CanonicalizationMethod containing Algorithm indicating value "http://www.w3.org/2001/10/xml-exc-c14n#", SignatureMethod containing Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#rsa-sha1", Reference_ indicating value any_value, Transforms containing Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#enveloped- signature", DigestMethod containing Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#sha1", DigestValue indicating value corrupted_value, SignatureValue indicating value any_value, KeyInfo containing	

```

        X509Data containing
        X509SubjectName indicating value SIGNING_CERT_SUBJECT,
        X509Certificate indicating value SIGNING_CERT
    from the ADAPTOR entity
}
then {
    the IUT sends a HTTP_RESPONSE containing
    status_code set to "200 OK"
    body containing
    vAcknowledgment containing
    MessageID indicating value MESSAGE_ID,
    CorrelationID indicating value CORRELATION_ID,
    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    Sender containing
    ServiceID indicating value SERVICE_ID,
    ServiceOperation indicating value Pull,
    Recipient containing
    ServiceID indicating value SERVICE_ID,
    ServiceOperation indicating value Pull,
    AckCode indicating value InvalidSignature,
    Signature indicating value any_value
    to the ADAPTOR entity
}
}

```

TP Id	"TP_CDM_NODE_SEC_BO_04"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment with InvalidSignature when it receives a message sign with an unsupported signature algorithm
Reference	ETSI GS CDM 004 [1], clause 8.1.10 Message Signature
PICS Selection	IUT_CDM_NODE and CDM_VESSEL_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing Signature containing SignedInfo containing CanonicalizationMethod containing Algorithm indicating value "http://www.w3.org/2001/10/xml-exc-c14n#", SignatureMethod containing Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#rsa-sha384", Reference_ indicating value any_value, Transforms containing Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#enveloped- signature", DigestMethod containing Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#sha1", DigestValue indicating value any_value, SignatureValue indicating value any_value, KeyInfo containing X509Data containing X509SubjectName indicating value SIGNING_CERT_SUBJECT, X509Certificate indicating value SIGNING_CERT from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing </pre>	


```

    ServiceID indicating value SERVICE_ID,
    ServiceOperation indicating value Pull,
    AckCode indicating value InvalidSignature,
    Signature indicating value any_value
  to the ADAPTOR entity
}
}

```

TP Id	"TP_CDM_NODE_SEC_BO_05"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment with InvalidSignature when it receives a message sign with an unsupported digest signature algorithm
Reference	ETSI GS CDM 004 [1], clause 8.1.10 Message Signature
PICS Selection	IUT_CDM_NODE and CDM_VESSEL_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing Signature containing SignedInfo containing CanonicalizationMethod containing Algorithm indicating value "http://www.w3.org/2001/10/xml-exc-c14n#", SignatureMethod containing Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#rsa-sha1", Reference_ indicating value any_value, Transforms containing Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#enveloped- signature", DigestMethod containing Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#sha384", DigestValue indicating value any_value, SignatureValue indicating value any_value, KeyInfo containing X509Data containing X509SubjectName indicating value SIGNING_CERT_SUBJECT, X509Certificate indicating value SIGNING_CERT from the ADAPTOR entity } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, AckCode indicating value InvalidSignature, Signature indicating value any_value to the ADAPTOR entity } } } } </pre>	

TP Id	"TP_CDM_NODE_SEC_BO_06"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment with InvalidSignature when it receives a message sign with an expired certificate (CDM_TS_CERTIFICATE_PAST)
Reference	ETSI GS CDM 004 [1], clause 8.1.10 Message Signature
PICS Selection	IUT_CDM_NODE and CDM_VESSEL_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing Signature containing SignedInfo containing CanonicalizationMethod containing Algorithm indicating value "http://www.w3.org/2001/10/xml-exc-c14n#", SignatureMethod containing Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#rsa-sha1", Reference_ indicating value any_value, Transforms containing Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#enveloped- signature", DigestMethod containing Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#sha1", DigestValue indicating value any_value, SignatureValue indicating value any_value, KeyInfo containing X509Data containing X509SubjectName indicating value EXPIRED_SIGNING_CERT_SUBJECT, X509Certificate indicating value EXPIRED_SIGNING_CERT from the ADAPTOR entity } } then { the IUT sends a HTTP_RESPONSE containing status_code set to "200 OK" body containing vAcknowledgment containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, AckCode indicating value InvalidSignature, Signature indicating value any_value to the ADAPTOR entity } } } } </pre>	

TP Id	"TP_CDM_NODE_SEC_BO_07"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment with InvalidSignature when it receives a message sign with a certificate valid in the future (CDM_TS_CERTIFICATE_FUTURE)
Reference	ETSI GS CDM 004 [1], clause 8.1.10 Message Signature
PICS Selection	IUT_CDM_NODE and CDM_VESSEL_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
<pre> ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing </pre>	

```

Signature containing
SignedInfo containing
  CanonicalizationMethod containing
    Algorithm indicating value "http://www.w3.org/2001/10/xml-exc-c14n#",
  SignatureMethod containing
    Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#rsa-sha1",
    Reference_ indicating value any_value,
  Transforms containing
    Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#enveloped-
signature",
    DigestMethod containing
      Algorithm indicating value "http://www.w3.org/2000/09/xmldsig#sha1",
      DigestValue indicating value any_value,
      SignatureValue indicating value any_value,
    KeyInfo containing
      X509Data containing
        X509SubjectName indicating value FUTURE_SIGNING_CERT_SUBJECT,
        X509Certificate indicating value FUTURE_SIGNING_CERT
from the ADAPTOR entity
}
}
then {
  the IUT sends a HTTP_RESPONSE containing
  status_code set to "200 OK"
  body containing
  vAcknowledgment containing
    MessageID indicating value MESSAGE_ID,
    CorrelationID indicating value CORRELATION_ID,
    Priority indicating value PRIORITY,
    RequiresAck indicating value false,
    Sender containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull,
    Recipient containing
      ServiceID indicating value SERVICE_ID,
      ServiceOperation indicating value Pull,
    AckCode indicating value InvalidSignature,
    Signature indicating value any_value
  to the ADAPTOR entity
}
}

```

TP Id	"TP_CDM_NODE_SEC_BO_08"
Test Objective	Check that the IUT responds with an HTTP 200 OK Acknowledgment response with InvalidSignature when it receives a message not signed
Reference	ETSI GS CDM 004 [1], clause 5.4.2 Pull ETSI GS CDM 004 [1], clause 8.1.3 Pull (Request/Response) ETSI GS CDM 004 [1], clause 8.1.4 Pull Request Querying Mechanism
PICS Selection	IUT_CDM_NODE and CDM_PULL and CDM_VESSEL_SERVICE
Initial Conditions	
with { the IUT isInIdleState }	
Expected Behaviour	
ensure that { when { the IUT receives a vPOST containing uri indicating value CDM_PULL_REQUEST_URI, body containing vPullRequest containing MessageID indicating value MESSAGE_ID, CorrelationID indicating value CORRELATION_ID, CreationDateTime indicating value CURRENT_TIME, Priority indicating value PRIORITY, RequiresAck indicating value false, Sender containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Recipient containing ServiceID indicating value SERVICE_ID, ServiceOperation indicating value Pull, Payload containing Vessel containing IMONumber indicating value VESSEL_IMO_NUMBER, Name indicating value VESSEL_NAME, Location indicating value VESSEL_LOCATION,	

```
        ShipType indicating value VESSEL_SHIP_TYPE,
        PullType indicating value Request,
        DiscoveryProfiles containing
            SeaBasin indicating value SEA_BASIN,
            not Signature
    from the ADAPTOR entity
}
then {
    the IUT sends a HTTP_RESPONSE containing
        status_code set to "200 OK"
        body containing
            vAcknowledgment containing
                MessageID indicating value MESSAGE_ID,
                CorrelationID indicating value CORRELATION_ID,
                Priority indicating value PRIORITY,
                RequiresAck indicating value false,
                Sender containing
                    ServiceID indicating value SERVICE_ID,
                    ServiceOperation indicating value Pull,
                Recipient containing
                    ServiceID indicating value SERVICE_ID,
                    ServiceOperation indicating value Pull,
                AckCode indicating value InvalidSignature,
                Signature indicating value any_value
    to the ADAPTOR entity
}
}
```

History

Document history		
V1.1.1	July 2024	Publication