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SERIES H: AUDIOVISUAL AND MULTIMEDIA SYSTEMS

E-health multimedia services and applications – Interoperability compliance testing of personal health systems (HRN, PAN, LAN, TAN and WAN)

Conformance of ITU-T H.810 personal health system: Services interface Part 8: Consent Management: Health & Fitness Service receiver

Recommendation ITU-T H.830.8

International Telecommunication Union

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Recommendation ITU-T H.830.8

Conformance of ITU-T H.810 personal health system: Services interface Part 8: Consent Management: Health & Fitness Service receiver

Summary

Recommendation ITU-T H.830.8 provides a test suite structure (TSS) and the test purposes (TP) for Consent Management through the Health & Fitness Service (HFS) receiver in the Services interface based on the requirements defined in the Recommendations of the ITU-T H.810 sub-series, of which Recommendation ITU-T H.810 (2016) is the base Recommendation. The objective of this test specification is to provide a high probability of interoperability at this interface.

Recommendation ITU-T H.830.8 is a transposition of Continua Test Tool DG2016, Test Suite Structure & Test Purposes, Services Interface; Part 8: Consent Management. HFS Receiver (Version 1.4, 2017-03-14), that was developed by the Personal Connected Health Alliance. A number of versions of this specification existed before transposition.

This Recommendation includes an electronic attachment with the protocol implementation conformance statements (PICS) and the protocol implementation extra information for testing (PIXIT) required for the implementation of Annex A.

History

Edition	Recommendation	Approval	Study Group	Unique ID*
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1.0	ITU-T H.830.8	2015-01-13	16	11.1002/1000/12594
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3.0	ITU-T H.830.8	2017-04-13	16	11.1002/1000/13209

Keywords

Conformance testing, Consent Management, Continua Design Guidelines, e-health, Health & Fitness Service receiver, ITU-T H.810, personal connected health devices, Services Interface.

* To access the Recommendation, type the URL http://handle.itu.int/ in the address field of your web browser, followed by the Recommendation's unique ID. For example, http://handle.itu.int/11.1002/1000/11830-en.

FOREWORD

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The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

Compliance with this Recommendation is voluntary. However, the Recommendation may contain certain mandatory provisions (to ensure, e.g., interoperability or applicability) and compliance with the Recommendation is achieved when all of these mandatory provisions are met. The words "shall" or some other obligatory language such as "must" and the negative equivalents are used to express requirements. The use of such words does not suggest that compliance with the Recommendation is required of any party.

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As of the date of approval of this Recommendation, ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementers are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database at http://www.itu.int/ITU-T/ipr/.

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Electronic attachment: This Recommendation includes an electronic attachment with the protocol implementation conformance statements (PICS) and the protocol implementation extra information for testing (PIXIT) required for the implementation of Annex A.

Introduction

This Recommendation is a transposition of Continua Test Tool DG2016, Test Suite Structure & Test Purposes, Services Interface; Part 8: Consent Management. HFS Receiver (Version 1.4, 2017-03-14), that was developed by the Personal Connected Health Alliance. The table below shows the revision history of this test specification; it may contain versions that existed before transposition.

Version	Date	Revision history
1.0	2012-10-05	Initial release for Test Tool DG2011 based on the requirements in [b-CDG 2011].
1.0	2013-05-24	Initial release for Test Tool DG2012. This is the same version as "TSS&TP_DG2012_WAN_PART_8 (REC CM) v1.0.doc" because new features included in [b-CDG 2012] do not affect the test procedures specified in this document.
1.0	2014-01-24	Initial release for Test Tool DG2013. This is the same version as "TSS&TP_DG2012_WAN_PART_8 (REC CM) v1.0.doc" because new features included in [b-ITU-T H.810 (2013)]/[b-CDG 2013] do not affect the test procedures specified in this document.
1.1	2014-04-24	TM Lite & Doc Enhancements (Test Tool v4.0 Maintenance Release 1). It uses "TSS&TP_DG2013_ WAN_PART_8_(REC CM)_v1.0.doc" as baseline and it adds new features included in Documentation Enhancements: • "Other PICS" row added
1.2	2015-07-01	Initial release for Test Tool DG2015: • Test suite structure and applicability modified
1.3	2016-09-20	Initial release for Test Tool DG2016. It implements changes according to [ITU-T H.810 (2016)]/[b-CDG 2016] (Iris + Errata) refreshments.
1.4	2017-03-14	Editorial: added insulin pump and continuous glucose monitor specializations to the TSS list in clause 6.

Recommendation ITU-T H.830.8

Conformance of ITU-T H.810 personal health system: Services interface Part 8: Consent Management: Health & Fitness Service receiver

1 Scope

The scope of this Recommendation[1] is to provide a test suite structure (TSS) and the test purposes (TP) for the Services interface based on the requirements defined in the Continua Design Guidelines (CDG) [ITU-T H.810 (2016)]. The objective of this test specification is to provide a high probability of interoperability at this interface.

The TSS and TP for the Services interface have been divided into the parts specified below. This Recommendation covers Part 8.

– Part 1: Web services interoperability Health & Fitness Service sender
– Part 2: Web services interoperability Health & Fitness Service receiver
– Part 3: SOAP/ATNA. Health & Fitness Service sender
– Part 4: SOAP/ATNA. Health & Fitness Service receiver
– Part 5: PCD-01 HL7 messages. Health & Fitness Service sender
– Part 6: PCD-01 HL7 messages. Health & Fitness Service receiver
– Part 7: Consent Management. Health & Fitness Service sender
– **Part 8: Consent Management. Health & Fitness Service receiver**
– Part 9: hData Observation Upload. Health & Fitness Service sender
– Part 10: hData Observation Upload. Health & Fitness Service receiver
– Part 11: Questionnaires. Health & Fitness Service sender
– Part 12: Questionnaires. Health & Fitness Service receiver

2 References

The following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published. The reference to a document within this Recommendation does not give it, as a stand-alone document, the status of a Recommendation.

[ITU-T H.810 (2016)] Recommendation ITU-T H.810 (2016), *Interoperability design guidelines for personal health systems*.

[ITU-T H.812] Recommendation ITU-T H.812 (2016), *Interoperability design guidelines for personal health systems: Services interface: Common certified capability class.*

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[1] This Recommendation includes an electronic attachment with the protocol implementation conformance statements (PICS) and the protocol implementation extra information for testing (PIXIT) required for the implementation of Annex A.

[ITU-T H.812.1] Recommendation ITU-T H.812.1 (2016), *Interoperability design guidelines for personal health systems: Services interface: Observation upload certified capability class.*

[ITU-T H.812.2] Recommendation ITU-T H.812.2 (2016), *Interoperability design guidelines for personal health systems: Services interface: Questionnaires certified capability class.*

[ITU-T H.812.3] Recommendation ITU-T H.812.3 (2016), *Interoperability design guidelines for personal health systems: Services interface: Capability exchange certified capability class.*

[ITU-T H.812.4] Recommendation ITU-T H.812.4 (2016), *Interoperability design guidelines for personal health systems: Services interface: Authenticated persistent session certified capability class.*

[IHE ITI TF-2] IHE ITI TF 2 (2010), Integrating the Healthcare Enterprise, *IHE IT Infrastructure Technical Framework, Volume 2* (ITI TF-2), Revision 7.0. It comprises three sub-volumes: 2a (Transactions Part A), 2b (Transactions Part B) and 2x (Appendices).
http://www.ihe.net/Technical_Framework/upload/IHE_ITI_TF_Rev7-0_Vol2a_FT_2010-08-10.pdf
http://www.ihe.net/Technical_Framework/upload/IHE_ITI_TF_Rev7-0_Vol2b_FT_2010-08-10.pdf
http://www.ihe.net/Technical_Framework/upload/IHE_ITI_TF_Rev7-0_Vol2x_FT_2010-08-10.pdf

3 Definitions

3.1 Terms defined elsewhere

None.

3.2 Terms defined in this Recommendation

None.

4 Abbreviations and acronyms

This Recommendation uses the following abbreviations and acronyms:

ATNA Audit Trail and Node Authentication

ATS Abstract Test Suite

CDA Clinical Document Architecture

CDG Continua Design Guidelines

CGM Continuous Glucose Monitor

DUT Device Under Test

GUI Graphical User Interface

ebXML electronic business using extensible Markup Language

EHR Electronic Health Record

HFS Health & Fitness Service

HFSS Health & Fitness Service Sender

HFSR Health & Fitness Service Receiver

INR	International Normalized Ratio
IP	Insulin Pump
IUT	Implementation Under Test
MDS	Medical Device System
MTOM	Message Transmission Optimization Mechanism
NFC	Near Field Communication
PCD	Patient Care Device
PCO	Point of Control and Observation
PCT	Protocol Conformance Testing
PHD	Personal Health Device
PHDC	Personal Healthcare Device Class
PHG	Personal Health Gateway
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation extra Information for Testing
S/MIME	Secure/Multipurpose Internet Mail Extensions
SCR	Static Conformance Review
SDP	Service Discovery Protocol
SOAP	Simple Object Access Protocol
SABTE	Sleep Apnoea Breathing Therapy Equipment
TCRL	Test Case Reference List
TCWG	Test and Certification Working Group
TP	Test Purpose
TSS	Test Suite Structure
URI	Uniform Resource Identifier
USB	Universal Serial Bus
WAN	Wide Area Network
WDM	Windows Driver Model
WS	Web Service
WSDL	Web Service Description Language
XDR	cross-enterprise Document Reliable interchange
XDS.b	cross-enterprise Document Sharing-b
XML	extensible Markup Language

5 Conventions

The key words "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "MAY", "MAY NOT" in this Recommendation are to be interpreted as in [b-ETSI SR 001 262].

– SHALL is equivalent to 'must' or 'it is required to'.

– SHALL NOT is equivalent to 'must not' or 'it is not allowed'.

– SHOULD is equivalent to 'it is recommended to'.

– SHOULD NOT is equivalent to 'it is not recommended to'.

– MAY is equivalent to 'is permitted'.

– MAY NOT is equivalent to 'it is not required that'.

NOTE – The above-mentioned key words are capitalized for illustrative purposes only and they do not appear capitalized within this Recommendation.

Reference is made in the ITU-T H.800-series of Recommendations to different versions of the Continua Design Guidelines (CDG) by a specific designation. The list of terms that may be used in this Recommendation is provided in Table 1.

Table 1 – List of designations associated with the various versions of the CDG

CDG release	Transposed as	Version	Description	Designation
2016 plus errata	[ITU-T H.810 (2016)]	6.1	Release 2016 plus errata noting all ratified bugs [b-CDG 2016].	–
2016	–	6.0	Release 2016 of the CDG including maintenance updates of the CDG 2015 and additional guidelines that cover new functionalities.	Iris
2015 plus errata	[b-ITU-T H.810 (2015)]	5.1	Release 2015 plus errata noting all ratified bugs [b-CDG 2015]. The 2013 edition of H.810 is split into eight parts in the H.810-series.	–
2015	–	5.0	Release 2015 of the CDG including maintenance updates of the CDG 2013 and additional guidelines that cover new functionalities.	Genome
2013 plus errata	[b-ITU-T H.810 (2013)]	4.1	Release 2013 plus errata noting all ratified bugs [b-CDG 2013].	–
2013	–	4.0	Release 2013 of the CDG including maintenance updates of the CDG 2012 and additional guidelines that cover new functionalities.	Endorphin
2012 plus errata	–	3.1	Release 2012 plus errata noting all ratified bugs [b-CDG 2012].	–
2012	–	3.0	Release 2012 of the CDG including maintenance updates of the CDG 2011 and additional guidelines that cover new functionalities.	Catalyst
2011 plus errata	–	2.1	CDG 2011 integrated with identified errata.	–
2011	–	2.0	Release 2011 of the CDG including maintenance updates of the CDG 2010 and additional guidelines that cover new functionalities [b-CDG 2011].	Adrenaline
2010 plus errata	–	1.6	CDG 2010 integrated with identified errata	–
2010	–	1.5	Release 2010 of the CDG with	1.5

Table 1 – List of designations associated with the various versions of the CDG

CDG release	Transposed as	Version	Description	Designation
			maintenance updates of the CDG Version 1 and additional guidelines that cover new functionalities [b-CDG 2010].	
1.0	–	1.0	First released version of the CDG [b-CDG 1.0].	–

6 Test suite structure (TSS)

The test purposes (TPs) for the Services interface have been divided into the main subgroups specified below. Annex A describes the TPs for subgroups 2.5.1 and 2.5.2 (shown in bold).

– Group 1: HFS sender (HFSS)
  - Group 1.1: Web services interoperability (WSI)
    - Subgroup 1.1.1: Basic profile (BP)
    - Subgroup 1.1.2: Basic security profile (BSP)
    - Subgroup 1.1.3: Reliable messaging (RM)
  - Group 1.2: SOAP (SOAP)
    - Subgroup 1.2.1: SOAP headers (HEAD)
  - Group 1.3: Audit (ATNA)
    - Subgroup 1.3.1: General (GEN)
    - Subgroup 1.3.2: PCD-01 (PCD-01)
    - Subgroup 1.3.3: Consent Management (CM)
  - Group 1.4: PCD-01 HL7 messages (PCD-01-DATA)
    - Subgroup 1.4.1: General (GEN)
    - Subgroup 1.4.2: Design guidelines (DG)
    - Subgroup 1.4.3: Pulse oximeter (PO)
    - Subgroup 1.4.4: Blood pressure monitor (BPM)
    - Subgroup 1.4.5: Thermometer (TH)
    - Subgroup 1.4.6: Weighing scales (WEG)
    - Subgroup 1.4.7: Glucose meter (GL)
    - Subgroup 1.4.8: Cardiovascular fitness and activity monitor (CV)
    - Subgroup 1.4.9: Strength fitness equipment (ST)
    - Subgroup 1.4.10: Independent living activity hub (HUB)
    - Subgroup 1.4.11: Adherence monitor (AM)
    - Subgroup 1.4.12: Peak expiratory flow monitor (PF)
    - Subgroup 1.4.13: Body composition analyser (BCA)
    - Subgroup 1.4.14: Basic electrocardiograph (ECG)
    - Subgroup 1.4.15: International normalized ratio (INR)
    - Subgroup 1.4.16: Sleep apnoea breathing therapy equipment (SABTE)
    - Subgroup 1.4.17: Insulin pump (IP)

- Subgroup 1.4.18: Continuous glucose monitor (CGM)
- Group 1.5: Consent Management (CM)
  - Subgroup 1.5.1: HFS XDR transaction (TRANS)
  - Subgroup 1.5.2: HFS metadata validation (META)
  - Subgroup 1.5.3: HFS consent directive validation (CDV)
- Group 1.6: hData Observation Upload (HDATA)
  - Subgroup 1.6.1: General (GEN)
- Group 1.7: Questionnaires (QUE)
  - Subgroup 1.7.1: General (GEN)
  - Subgroup 1.7.2: CDA validation (CDA)

– Group 2: HFS receiver (HFSR)

- Group 2.1: Web service interoperability (WSI)
  - Subgroup 2.1.1: Basic profile (BP)
  - Subgroup 2.1.2: Basic security profile (BSP)
  - Subgroup 2.1.3: Reliable messaging (RM)
- Group 2.2: SOAP (SOAP)
  - Subgroup 2.2.1: SOAP headers (HEAD)
- Group 2.3: Audit (ATNA)
  - Subgroup 2.3.1: General (GEN)
  - Subgroup 2.3.2: PCD-01 (PCD-01)
  - Subgroup 2.3.3: Consent Management (CM)
- Group 2.4: PCD-01 HL7 messages (PCD-01-DATA)
  - Subgroup 2.4.1: General (GEN)
  - Subgroup 2.4.2: Design guidelines (DG)
  - Subgroup 2.4.3: Pulse oximeter (PO)
  - Subgroup 2.4.4: Blood pressure monitor (BPM)
  - Subgroup 2.4.5: Thermometer (TH)
  - Subgroup 2.4.6: Weighing scales (WEG)
  - Subgroup 2.4.7: Glucose meter (GL)
  - Subgroup 2.4.8: Cardiovascular fitness and activity monitor (CV)
  - Subgroup 2.4.9: Strength fitness equipment (ST)
  - Subgroup 2.4.10: Independent living activity hub (HUB)
  - Subgroup 2.4.11: Adherence monitor (AM)
  - Subgroup 2.4.12: Peak expiratory flow monitor (PF)
  - Subgroup 2.4.13: Body composition analyser (BCA)
  - Subgroup 2.4.14: Basic electrocardiograph (ECG)
  - Subgroup 2.4.15: International normalized ratio (INR)
  - Subgroup 2.4.16: Sleep apnoea breathing therapy equipment (SABTE)
  - Subgroup 2.4.17: Insulin pump (IP)
  - Subgroup 2.4.18: Continuous glucose monitor (CGM)
- Group 2.5: Consent Management (CM)

- **Subgroup 2.5.1: HFS XDR transaction (TRANS)**
- **Subgroup 2.5.2: HFS service validation (SER)**

- Group 2.6: hData Observation Upload (HDATA)
  - Subgroup 2.6.1: General (GEN)
  - Subgroup 2.6.2: hData record format (HRF)
- Group 2.7: Questionnaires (QUE)
  - Subgroup 2.7.1: General (GEN)
  - Subgroup 2.7.2: CDA validation (CDA)
  - Subgroup 2.7.3: hData record format (HRF)

7 Electronic attachment

The protocol implementation conformance statements (PICS) and the protocol implementation extra information for testing (PIXIT) required for the implementation of Annex A can be downloaded from http://handle.itu.int/11.1002/2000/12067.

In the electronic attachment, letters "C" and "I" in the column labelled "Mandatory" are used to distinguish between "PICS" and "PIXIT" respectively during testing. If the cell is empty, the corresponding PICS is "independent". If the field contains a "C2", the corresponding PICS is dependent on other PICS, and the logical expression is detailed in the "SCR_Expression" field. The static conformance review (SCR) is used in the test tool to assert whether the PICS selection is consistent.

Annex A

Test purposes

(This annex forms an integral part of this Recommendation.)

A.1 TP definition conventions

The test purposes (TPs) are defined according to the following rules:

- **TP Id**: This is a unique identifier (TP/<TT>/<DUT>/<GR>/<SGR>/<XX> – <NNN>). It is specified according to the naming convention defined below:
  - Each test purpose identifier is introduced by the prefix "TP".
  - <TT>: This is the test tool that will be used in the test case.
    - HFS: Health & Fitness Services Interface
  - <DUT>: This is the device under test.
    - SEN: HFS sender
    - REC: HFS receiver
  - <GR>: This identifies a group of test cases.
  - <SGR>: This identifies a subgroup of test cases.
  - <XX>: This identifies the type of testing.
    - BV: Valid behaviour test
    - BI: Invalid behaviour test
  - <NNN>: This is a sequential number that identifies the test purpose (TP).
- **TP label**: This is the title of the TP.
- **Coverage**: This contains the specification reference and clause to be checked by the TP.
  - Spec: This indicates the earliest version of the specification from which the testable items to be checked by the TP are included.
  - Testable Item: This contains testable items to be checked by the TP.
- **Test purpose**: This is a description of the requirements to be tested.
- **Applicability**: This contains the PICS items that define if the test case is applicable or not for a specific device. When a TP contains an "ALL" in this field it means that it applies to the device under test within that scope of the test (specialization, transport used, etc.).
- **Other PICS:** This contains additional PICS items (apart from the PICS specified in the Applicability row) which are used within the test case implementation and can modify the final verdict. When this row is empty, it means that only the PICS specified in the Applicability row are used within the test case implementation.
- **Initial condition**: This indicates the state to which the DUT needs to be moved at the beginning of TC execution.
- **Test procedure**: This describes the steps to be followed in order to execute the test case.
- **Pass/Fail criteria**: This provides criteria to decide whether the DUT passes or fails the test case.

A.2 Subgroup 2.5.1: HFS XDR Transaction (TRANS)

TP Id		TP/HFS/REC/CM/TRANS/BV-000		
TP label		Provide and Register Document Set-b Transaction Response		
Coverage	**Spec**	[ITU-T H.812]		
	Testable items	ConsentReceiver1; M		
	Spec	[IHE ITI TF-2], Volume 2b		
	Testable items	ProvideResponse1; M	ProvideResponse2; M	ProvideProtocol2; M
		ProvideProtocol10; M	ProvideProtocol11; M	
Test purpose		Check that: Consent Enabled HFS Observation receiver shall be able to receive, HL7 CDA R2 Consent Directives consent document(s) [AND] The Document Repository shall send a Provide and Register Document Set-b Response when the processing of a Provide and Register Document Set-b Request is complete [AND] The Provide and Register Document Set-b Response message shall carry the status of the requested operation and an error message if the requested operation failed. [AND] The Provide and Register Document Set-b transaction shall use SOAP12 and MTOM with XOP encoding. [AND] The Document Repository shall accept documents in a Provide and Register Document Set-b transaction in MTOM/XOP format. [AND] The response message shall use MTOM/XOP format		
Applicability		C_REC_000 AND C_REC_GEN_002 AND C_REC_GEN_003		
Other PICS				
Initial condition		The receiver under test has published the document recipient service and is ready to receive a "Provide and Register Document Set-b Request" sent by the simulated HFS sender.		
Test procedure		1 The simulated HFS sender sends a "Provide and Register Document Set-b Request" with a clinical document architecture (CDA) using MTOM/XOP. 2 The receiver under test responds with a "Provide and Register Document Set-b Response" with status = "urn:oasis:names:tc:ebxml-regrep:ResponseStatusType: Success" using SOAP12 [b-SOAP 1.2].		
Pass/Fail criteria		All steps are as specified within the test procedure above.		
Notes				

A.3 Subgroup 2.5.2: HFS Service Validation (SER)

TP Id		TP/HFS/REC/CM/SER/BV-000		
TP label		Service WSDL		
Coverage	**Spec**	[IHE ITI TF-2], Volume 2b		
	Testable items	ProvideProtocol3; M	ProvideProtocol4; M	ProvideProtocol5; M
		ProvideProtocol6; M	ProvideProtocol7; M	ProvideProtocol8; M
Test purpose		Check that: The following types shall be imported (xsd:import) in the /definitions/types section of the WSDL: - namespace="urn:oasis:names:tc:ebxml-regrep:xsd:rs:3.0", schema="rs.xsd" - namespace="urn:ihe:iti:xds-b:2007", schemaLocation="IHEXDS.xsd" [AND] The /definitions/message/part/@element attribute of the Provide and Register Document Set-b Request message of the WSDL shall be defined as "ihe:ProvideAndRegisterDocumentSetRequest" [AND] The /definitions/message/part/@element attribute of the Provide and Register Document Set-b Response message of the WSDL shall be defined as "ihe:RegistryResponse" [AND] The /definitions/portType/operation/input/@wsaw:Action attribute for the Provide and Register Document Set-b Request message of the WSDL shall be defined as "urn:ihe:iti:2007:ProvideAndRegisterDocumentSet-b" [AND] The /definitions/portType/operation/output/@wsaw:Action attribute for the Provide and Register Document Set-b Response message of the WSDL shall be defined as "urn:ihe:iti:2007:ProvideAndRegisterDocumentSet-bResponse" [AND] The /definitions/portType/operation/soap12:operation/@soapAction attribute of the WSDL shall be defined as "urn:ihe:iti:2007:ProvideAndRegisterDocumentSet-b"		
Applicability		C_REC_000 AND C_REC_GEN_002 AND C_REC_GEN_003		
Other PICS				
Initial condition		The receiver under test has published its WSDL description for a Consent Management service		
Test procedure		1 Look up the WSDL description using the corresponding URL given by the receiver under test (I_REC_CM_001). Check that: a. There are two xsd:import elements in the definitions/types section for which the namespaces are: o namespace="urn:oasis:names:tc:ebxml-regrep:xsd:rs:3.0" o namespace="urn:ihe:iti:xds-b:2007" b. /definitions/message/part/@element = "ihe:ProvideAndRegisterDocumentSetRequest" for the "Provide and Register Document Set-b Request" c. /definitions/message/part/@element = "ihe:RegistryResponse" for the "Provide and Register Document Set-b Response"		

	d. /definitions/portType/operation/input/@wsaw:Action = "urn:ihe:iti:2007:ProvideAndRegisterDocumentSet-b" for the "Provide and Register Document Set-b Request" e. /definitions/portType/operation/input/@wsaw:Action = "urn:ihe:iti:2007:ProvideAndRegisterDocumentSet-bResponse" for the "Provide and Register Document Set-b Response" f. /definitions/portType/operation/soap12:operation/@soapAction = "urn:ihe:iti:2007:ProvideAndRegisterDocumentSet-b"
Pass/Fail criteria	All steps are as specified within the test procedure above.
Notes	

TP Id		TP/HFS/REC/CM/SER/BV-001		
TP label		Service Metadata Validation		
Coverage	**Spec**	[IHE ITI TF-2], Volume 2b		
	Testable items	ProvideRecipient3; M	ProvideRecipient5; O	ProvideRecipient7; C
Test purpose		Check that: A Document Repository shall validate the following metadata elements received as part of a Provide and Register transaction: - XDSDocumentEntry.uniqueId - XDSSubmissionSet.sourceId [AND] If a XDSSubmissionSet.sourceId element is received, a Document Repository may choose to accept submissions only from certain sources and use this field to perform the filtering. [AND] If the attributes "hash" and "size" are received in a Provide and Register Document Set-b [ITI-41] transaction, they shall be ignored.		
Applicability		C_REC_000 AND C_REC_GEN_002 AND C_REC_GEN_003		
Other PICS				
Initial condition		The receiver under test has published the document recipient service and is ready to receive a "Provide and Register Document Set-b Request" sent by the simulated sender.		
Test procedure		1 The Simulated HFS sender sends a "Provide and Register Document Set-b Request" message including XDSSubmissionSet.sourceId, XDSDocumentEntry.uniqueId, XDSDocumentEntry.hash and XDSDocumentEntry.size elements with correct values. 2 The HFS receiver under test responds with a "Provide and Register Document Set-b Response" with status Success 3 The simulated HFS sender sends a "Provide and Register Document Set-b Request" message including an XDSDocumentEntry.hash element with a wrong value 4 The receiver under test responds with a "Provide and Register Document Set-b Response" with status Success 5 The simulated HFS sender sends a "Provide and Register Document Set-b Request" message including an XDSDocumentEntry.size element with a wrong value 6 The receiver under test responds with a "Provide and Register Document Set-b Response" with status Success 7 The simulated HFS sender sends a "Provide and Register Document Set-b Request" message including a different XDSSubmissionSet.sourceId element		

	8 The receiver under test may accept or may not accept the message.
Pass/Fail criteria	All steps are as specified within the test procedure above.
Notes	

TP Id		TP/HFS/REC/CM/SER/BV-002		
TP label		Multiple Documents and Errors		
Coverage	**Spec**	[IHE ITI TF-2], Volume 2b		
	Testable items	ProvideReqActions3; M	ProvideRecipient1; M	
Test purpose		Check that: A detected failure it shall result in an error message being returned to the Document Source thus terminating this transaction. [AND] A Document Repository shall be capable of accepting submissions containing multiple documents.		
Applicability		C_REC_000 AND C_REC_GEN_002 AND C_REC_GEN_003		
Other PICS				
Initial condition		The receiver under test has published the document recipient service and is ready to receive a "Provide and Register Document Set-b Request" sent by the simulated sender.		
Test procedure		1 The simulated HFS sender sends a "Provide and Register Document Set-b Request" with two documents using MTOM/XOP 2 The receiver under test responds with a "Provide and Register Document Set-b Response" with status = "urn:oasis:names:tc:ebxml-regrep:ResponseStatusType: Success" 3 The simulated HFS sender sends a "Provide and Register Document Set-b Request" without attaching a document using MTOM/XOP 4 The receiver under test responds with a "Provide and Register Document Set-b Response" with status = "urn:oasis:names:tc:ebxml-regrep:ResponseStatusType: Failure".		
Pass/Fail criteria		All steps are as specified within the test procedure above.		
Notes				

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