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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 13: Capability
Exchange: Health & Fitness Service sender**

Recommendation ITU-T H.830.13

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Recommendation ITU-T H.830.13

Conformance of ITU-T H.810 personal health system: Services interface Part 13: Capability Exchange: Health & Fitness Service sender

Summary

Recommendation ITU-T H.830.13 provides a test suite structure (TSS) and the test procedures (TP) for Capability Exchange through the Health & Fitness Service (HFS) sender 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 (2017) is the base Recommendation. The objective of this test specification is to provide a high probability of interoperability at this interface.

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*
1.0	ITU-T H.830.13	2018-08-29	16	11.1002/1000/13674

Keywords

Capability exchange, conformance testing, continua design guidelines, e-health, health & fitness service receiver, 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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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

The table below shows the revision history of this test specification.

Version	Date	Revision history
1.0	2018-02-27	Initial release for the inclusion of Capability Exchange for Health & Fitness Service senders.

Recommendation ITU-T H.830.13

Conformance of ITU-T H.810 personal health system: Services interface Part 13: Capability Exchange: Health & Fitness Service sender

1 Scope

The scope of this Recommendation¹ is to provide test suite structure (TSS) and the test procedures (TP) for the Services interface based on the requirements defined in the Continua Design Guidelines (CDG) [ITU-T H.810 (2017)]. 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 13.

- 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 10: hData Observation Upload: Health & Fitness Service receiver
- Part 11: Questionnaires: Health & Fitness Service sender
- Part 12: Questionnaires: Health & Fitness Service receiver
- **Part 13: Capability Exchange: Health & Fitness Service sender**
- Part 14: Capability Exchange: Health & Fitness Service receiver
- Part 15: FHIR Observation Upload. Health & Fitness Service sender
- Part 16: FHIR Observation Upload. 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] | Recommendation ITU-T H.810 (2017), <i>Interoperability design guidelines for personal connected health systems: Introduction</i> . |
| [ITU-T H.811] | Recommendation ITU-T H.811 (2017), <i>Interoperability design guidelines for personal health systems: Personal Health Devices interface</i> . |

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]	Recommendation ITU-T H.812 (2017), <i>Interoperability design guidelines for personal health systems: Services interface</i> .
[ITU-T H.812.1]	Recommendation ITU-T H.812.1 (2017), <i>Interoperability design guidelines for personal health systems: Services interface: Observation Upload certified capability class</i> .
[ITU-T H.812.2]	Recommendation ITU-T H.812.2 (2017), <i>Interoperability design guidelines for personal health systems: Services interface: Questionnaire capability</i> .
[ITU-T H.812.3]	Recommendation ITU-T H.812.3 (2017), <i>Interoperability design guidelines for personal health systems: Services interface: Capability Exchange capability</i> .
[ITU-T H.812.4]	Recommendation ITU-T H.812.4 (2017), <i>Interoperability design guidelines for personal connected health systems: Services interface: Authenticated Persistent Session capability</i> .
[ITU-T H.813]	Recommendation ITU-T H.813 (2017), <i>Interoperability design guidelines for personal connected health systems: Healthcare Information System interface</i> .

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:

AHD	Application Hosting Device
ATNA	Audit Trail and Node Authentication
CDA	Clinical Document Architecture
CDG	Continua Design Guidelines
CGM	Continuous Glucose Monitor
DUT	Device Under Test
FHIR	Fast Healthcare Interoperability Resources
GUI	Graphical User Interface
HFS	Health & Fitness Service
HFSS	Health & Fitness Service Sender
HFSR	Health & Fitness Service Receiver
HL7	Health Level 7
HTTP	Hypertext Transfer Protocol
HTTPS	Hypertext Transfer Protocol Secure
INR	International Normalized Ratio