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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: Conformity assessment test plan

Recommendation ITU-T H.820



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Recommendation ITU-T H.820

Conformance of ITU-T H.810 personal health system: Conformity assessment test plan

Summary

Recommendation ITU-T H.820 provides a top-level overview of the test specifications and test profiles used to verify product conformance to the Continua Design Guidelines (CDG) that are defined in the Recommendations of the ITU-T H.810 sub-series, of which Recommendation ITU-T H.810 (2017) is the base Recommendation. It outlines the scope of the conformance and interoperability tests, test suite structures (TSS) and test purposes (TP), the test case reference list and the Continua test tool, which in turn are specified in detail in the Recommendations of the ITU-T H.820-H.850 series.

History

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FOREWORD

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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.

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Introduction

This Recommendation provides an overview of the conformance and interoperability testing that is performed to ensure products conform to the Continua Design Guidelines [ITU-T H.810] and its underlying standards and demonstrate interoperability between conforming products.

Continua test descriptions are written in the form of test suite structure (TSS) and test procedures (TP) documents to guide execution of conformance tests using the Continua test tool (CTT) [b-Continua Test Tool]. These test descriptions also describe precisely the possible results of a given procedure such that the result is deterministic. Device profiles are employed to survey and describe features implemented on a product that are then used to configure the Continua test tool to execute all test cases applicable to that product's feature set.

Conformance testing verifies compliance with:

- Personal Health Devices interface (or PHD-IF) requirements for transport, exchange protocols, certified capability classes and device specializations;
- Services interface (or Services IF) requirements for web services interoperability, SOAP/ATNA, PCD-01 HL7 messages, consent management, hData observation upload and questionnaires;
- Health Information System interface (or HIS-IF) sender and receiver.

Interoperability testing verifies basic personal health device (PHD) and Services functionality of typical use cases for a device specialization against a test bed of Continua certified devices.

Test report templates are employed to document test results at detailed level and summary level. Detailed test reports are confidential to the product vendor. They may be presented to a customer to self-declare compliance to the Continua Design Guidelines (CDG) or provided to the Continua certification administrator (CertAdmin) as part of the Continua certification process [b-CDG Certification]. Summary level (passing) test results are available to the public. All Continua certified products are listed on the ITU Product Conformity Database at <https://www.itu.int/net/itu-t/cdb/ConformityDB.aspx>.

The Continua test tool provides a user interface by which product features are identified and mapped to the appropriate test cases to generate the test plan used to verify conformance to the Continua Design Guidelines and ISO/IEEE 11073-20601 family of specifications.

The test specifications herein are published by the ITU as the ITU-T H.820-H.850 series of Recommendations "Conformance of ITU-T H.810 personal health systems" [ITU-T H.820-H.850].

Recommendation ITU-T H.820

Conformance of ITU-T H.810 personal health system: Conformity assessment test plan

1 Scope

The purpose of the conformity assessment test plan in this Recommendation is to provide an overview of the conformance and interoperability testing that is performed to ensure products conform to the Continua Design Guidelines (CDG) and its underlying standards and to demonstrate interoperability between conforming products.

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.

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