

ETSI TS 101 808-4 V1.1.1 (2000-09)

Technical Specification

**Digital Enhanced Cordless Telecommunications (DECT);
Wireless Relay Station (WRS);
Test Case Library (TCL);
Part 4: Test Suite Structure (TSS) and Test Purposes (TP) -
Data Link Control (DLC) layer**



Reference

DTS/DECT-040166-4

Keywords

DECT, DLC, testing, TSS&TP, WRS

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Foreword

This Technical Specification (TS) has been produced by ETSI Project Digital Enhanced Cordless Telecommunications (DECT).

The present document is part 4 of a multi-part deliverable covering the Digital Enhanced Cordless Telecommunications (DECT); Wireless Relay Station (WRS); Test Case Library (TCL), as identified below:

- Part 1: "Test Suite Structure (TSS) and Test Purposes (TP) for Medium Access Control (MAC) layer";
- Part 2: "Abstract Test Suite (ATS) for Medium Access Control (MAC) layer - Cordless Radio Fixed Part Portable radio Termination (CRFP_PT)";
- Part 3: "Abstract Test Suite (ATS) for Medium Access Control (MAC) layer - Cordless Radio Fixed Part Fixed radio Termination (CRFP_FT)";
- Part 4: "Test Suite Structure (TSS) and Test Purposes (TP) - Data Link Control (DLC) layer";**
- Part 5: "Abstract Test Suite (ATS) - Data Link Control (DLC) layer; Cordless Radio Fixed Part Portable radio Termination (CRFP_PT)";
- Part 6: "Abstract Test Suite (ATS) - Data Link Control (DLC) layer; Cordless Radio Fixed Part Fixed radio Termination (CRFP_FT)";
- Part 7: "Test Suite Structure (TSS) and Test Purposes (TP) - Network (NWK) layer";
- Part 8: "Abstract Test Suite (ATS) for Network (NWK) layer - Cordless Radio Fixed Part Portable radio Termination (CRFP_PT)";
- Part 9: "Abstract Test Suite (ATS) for Network (NWK) layer - Cordless Radio Fixed Part Fixed radio Termination (CRFP_FT)".

1 Scope

The present document contains the Test Suite Structure (TSS) and Test Purposes (TP) to test the DECT Wireless Relay Station (WRS) Data Link Control (DLC) layer.

The objective of the present document is to provide a basis for conformance tests for DECT equipment giving a high probability of air interface inter-operability between different manufacturer's DECT equipment.

The ISO standard for the methodology of conformance testing (ISO/IEC 9646-1 [4] and ISO/IEC 9646-2 [6]) as well as the ETSI rules for conformance testing (ETS 300 406 [2]) are used as a basis for the test methodology.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.
- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

- [1] ETSI EN 300 175-4: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Part 4: Data Link Control (DLC) Layer".
- [2] ETSI ETS 300 406: "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".
- [3] ETSI EN 300 700: "Digital Enhanced Cordless Telecommunications (DECT); Wireless Relay Station (WRS)".
- [4] ISO/IEC 9646-1 (1991): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts". (See also CCITT Recommendation X.290 (1991)).
- [5] ETSI EN 300 497-4: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 4: Test Suite Structure (TSS) and Test Purposes (TP) - Data Link Control (DLC) layer".
- [6] ISO/IEC 9646-2 (1991): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract test suite specification". (See also CCITT Recommendation X.291 (1991)).

3 Abbreviations

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

DLC	Date Link Control
FT	Fixed radio Termination
PT	Portable radio Termination

4 Test suite structure

In the referenced standard EN 300 700 [3] no new requirements regarding to the existing requirements defined in EN 300 175-4 [1] for the Data Link Control (DLC) layer are introduced. This means that no new test suite structure is defined and therefore the valid test suite structure applicable to the present document is defined in the relevant clause of EN 300 497-4 [5].

5 Test Purposes (TP)

5.1 Test purposes for FT part

In the referenced standard EN 300 700 [3] no new requirements regarding to the existing requirements defined in EN 300 175-4 [1] for the Data Link Control (DLC) layer are introduced. This means that no new test purposes for FT part are defined and therefore the valid test purposes for FT part applicable to the present document are defined in the relevant clause of EN 300 497-4 [5].

5.2 Test purposes for PT part

In the referenced standard EN 300 700 [3] no new requirements regarding to the existing requirements defined in EN 300 175-4 [1] for the Data Link Control (DLC) layer are introduced. This means that no new test purposes for PT part are defined and therefore the valid test purposes for PT part applicable to the present document are defined in the relevant clause of EN 300 497-4 [5].

Bibliography

The following material, though not specifically referenced in the body of the present document (or not publicly available), gives supporting information.

- ETSI EN 300 497-5: "Digital Enhanced Cordless Telecommunications (DECT); Common Interface (CI); Test Case Library (TCL); Part 5: Abstract Test Suite (ATS) - Data Link Control (DLC) layer".

History

Document history		
V1.1.1	September 2000	Publication