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Terrestrial Trunked Radio (TETRA); Air Interface (AI) layer 2 and 3 protocol validation; Part 1: Validation of test suites for Voice plus Data (V+D)

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Foreword

This ETSI Technical Report (ETR) has been produced by the Radio Equipment and Systems (RES) Technical Committee of the European Telecommunications Standards Institute (ETSI).

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1 Scope

This ETSI Technical Report (ETR) defines the methods, procedures, and validation purposes used for the formal validation of the Tree and Tabular Combined Notation (TTCN) conformance test suites for TETRA Voice and Data (V+D) Air Interface (AI) and documents the results of the validation.

2 References

For the purposes of this ETR, the following references apply:

[1] ETS 300 394-2-1: "Radio Equipment and Systems (RES); Trans-European Trunked Radio (TETRA); Conformance testing specification, Part 2: Protocol testing specification for Voice plus Data (V+D); Part 2-1: Test suites structure and test purposes".

[2] ETS 300 394-2-2: "Radio Equipment and Systems (RES); Trans-European Trunked Radio (TETRA); Conformance testing specification, Part 2: Protocol testing specification for Voice plus Data (V+D); Part 2-2: Abstract Test Suite (ATS) for Network (NWK) layer".

[3] ETS 300 394-2-3: "Radio Equipment and Systems (RES); Trans-European Trunked Radio (TETRA); Conformance testing specification, Part 2: Protocol testing specification for Voice plus Data (V+D); Part 2-3: Abstract Test Suite (ATS) for Logical Link Control (LLC)".

[4] ETS 300 394-2-4: "Radio Equipment and Systems (RES); Trans-European Trunked Radio (TETRA); Conformance testing specification, Part 2: Protocol testing specification for Voice plus Data (V+D); Part 2-4: Abstract Test Suite (ATS) for Medium Access Control (MAC)".

[5] ETS 300 392-2: "Radio Equipment and Systems (RES); Trans-European Trunked Radio (TETRA); Voice plus Data (V+D); Part 2: Air Interface (AI)".

[6] ETR 293-1: "Radio Equipment and Systems (RES); Trans-European Trunked Radio (TETRA); Air Interface (AI) layer 2 and 3 protocol validation; Part 1: Validation of SDL models for Voice plus Data (V+D)".

[7] ISO/IEC 9646-3 (1991): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The tree and tabular combined notation". (See also CCITT Recommendation X.292 (1992)).

[8] ITU-T Recommendation Z.105 (1995): "SDL combined with ASN.1".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of this ETR, the following definitions apply:

external validation: Validation of TTCN test suite properties except for those related to the TTCN language definition.

internal validation: Checking the correctness of a TTCN test suite according to the rules of TTCN as defined in ISO 9646, part 3 [7].