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**Methods for Testing and Specification (MTS);
The Test Description Language (TDL);
Part 1: Abstract Syntax and Associated Semantics**

Reference

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Foreword

This ETSI Standard (ES) has been produced by ETSI Technical Committee Methods for Testing and Specification (MTS).

The present document is part 1 of a multi-part deliverable covering the Test Description Language as identified below:

- Part 1:** "Abstract Syntax and Associated Semantics";
 - Part 2: "Graphical Syntax";
 - Part 3: "Exchange Format";
 - Part 4: "Structured Test Objective Specification (Extension)".
-

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

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1 Scope

The present document specifies the abstract syntax of the Test Description Language (TDL) in the form of a meta-model based on the OMG Meta Object Facility (MOF) [1]. It also specifies the semantics of the individual elements of the TDL meta-model. The intended use of the present document is to serve as the basis for the development of TDL concrete syntaxes aimed at TDL users and to enable TDL tools such as documentation generators, specification analyzers and code generators.

The specification of concrete syntaxes for TDL is outside the scope of the present document. However, for illustrative purposes, an example of a possible textual syntax together with its application on some existing ETSI test descriptions are provided.

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

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The following referenced documents are necessary for the application of the present document.

[1] "OMG Meta Object Facility (MOF) Core Specification V2.4.1", formal/2013-06-01.

NOTE: Available at <http://www.omg.org/spec/MOF/2.4.1/>.

[2] "OMG Unified Modeling Language™ (OMG UML) Superstructure, Version 2.4.1", formal/2011-08-06.

NOTE: Available at <http://www.omg.org/spec/UML/2.4.1/>.

[3] ETSI ES 203 119-2 (V1.1.1): "Methods for Testing and Specification (MTS); The Test Description Language (TDL); Part 2: Graphical Syntax".

[4] ETSI ES 203 119-3 (V1.1.1): "Methods for Testing and Specification (MTS); The Test Description Language (TDL); Part 3: Exchange Format".

[5] ETSI ES 203 119-4 (V1.1.1): "Methods for Testing and Specification (MTS); The Test Description Language (TDL); Part 4: Structured Test Objective Specification (Extension)".

[6] ISO/IEC 9646-1:1994: "Information technology -- Open Systems Interconnection -- Conformance testing methodology and framework -- Part 1: General concepts".

2.2 Informative references

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