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**Metode za preskušanje in specificiranje (MTS) - Jezik za opis preskusa (TDL) - 2.
del: Grafična skladnja**

Methods for Testing and Specification (MTS) - The Test Description Language (TDL) -
Part 2: Graphical Syntax

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 650 Route des Lucioles
 F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

 Siret N° 348 623 562 00017 - NAF 742 C
 Association à but non lucratif enregistrée à la
 Sous-Préfecture de Grasse 06 N° 7303/88

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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 2 of a multi-part deliverable. Full details of the entire series can be found in part 1 [1].

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Modal verbs terminology

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1 Scope

The present document specifies the concrete graphical syntax of the Test Description Language (TDL). The intended use of the present document is to serve as the basis for the development of graphical TDL tools and TDL specifications. The meta-model of TDL and the meanings of the meta-classes are described in ETSI ES 203 119-1 [1].

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

- [1] ETSI ES 203 119-1 (V1.5.1): "Methods for Testing and Specification (MTS); The Test Description Language (TDL); Part 1: Abstract Syntax and Associated Semantics".

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The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] ETSI TS 136 523-1 (V10.2.0) (10-2012): "LTE; Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification (3GPP TS 36.523-1 version 10.2.0 Release 10)".
- [i.2] ETSI TS 186 011-2 (V3.1.1) (06-2011): "IMS Network Testing (INT); IMS NNI Interoperability Test Specifications; Part 2: Test Description for IMS NNI Interoperability".

3 Definition of terms, symbols and abbreviations

3.1 Terms

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

diagram: placeholder of TDL shapes

lifeline: vertical line originates from a gate instance or a component instance, to which behavioural elements may be attached

NOTE: A lifeline from top to down represents how time passes.

shape: layout of the graphical representation of a TDL meta-class

3.2 Symbols

Void.

3.3 Abbreviations

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

EBNF	Extended Backus-Naur Form
IMS	IP Multimedia Subsystem
OCL	Object Constraint Language™
TDL	Test Description Language
URI	Unified Resource Identifier

4 Basic principles

4.1 Introduction *iTeh STANDARD PREVIEW (standards.iteh.ai)*

The meta-model of the Test Description Language is specified in ETSI ES 203 119-1 [1]. The presentation format of the meta-model can be different according to the needs of the users or the requests of the domain, where the TDL is applied. These presentation formats can either be text-oriented or graphic-oriented and may cover all the functionalities of the TDL meta-model or just a part of it, which is relevant to satisfy the needs of a specific application domain.

The present document specifies a concrete graphical syntax that provides a graphical representation for the whole functionality of the TDL meta-model.

The document specifies the TDL diagram, where the graphical representations of the instances of the TDL meta-classes may be placed. A graphical representation may contain a shape with textual labels placed into it. The rules, how these labels shall be interpreted are described in OCL-like expressions.

4.2 Document Structure

The present document specifies the concrete graphical syntax of the Test Description Language (TDL).

Clause 5 specifies the TDL Diagram.

Clause 6 specifies the concrete shapes defined for the TDL meta-classes. (The meta-model of TDL and the meanings of the meta-classes are described in ETSI ES 203 119-1 [1].)

- Foundation (clause 6.1)
- Data (clause 6.2)
- Time (clause 6.3)
- Test Configuration (clause 6.4)
- Test Behaviour (clause 6.5)

At the end of the document several examples illustrating the features of the TDL Graphical Syntax can be found.

4.3 Notational Conventions

4.3.0 General

Elements from the TDL meta-model [1] are typed in italic, e.g. *StructuredDataType*.

The definition of the TDL concrete graphical syntax consists of both shapes and textual labels placed into these shapes. Textual labels are differentiated into non-terminal textual labels and terminal textual labels. The production rule of a non-terminal textual label is specified by a combination of EBNF symbols and OCL-like expressions to navigate over the abstract syntax meta-model of TDL.

4.3.1 Symbols and meanings for shapes

Shapes consist of outermost borders, compartments, and textual labels (i.e. non-terminal textual labels and terminal-textual labels). The following conventions apply:

- Non-terminal textual labels are typed in small capitals (e.g. PRODUCTIONRULELABEL). The name of the label refers to a production rule with the same name that specifies how the result of the production rule is determined.
- If a non-terminal symbol name is typed in special, e.g. UNDERLINED or **BOLD** small capitals, underlined or bold font shall be used in the shape for the result of the production rule of that non-terminal symbol, e.g. SIMPLEDATAINSTANCENAMELABEL (non-terminal) and MyValue:MyType (a result of the production rule of that non-terminal) or **COMPONENTROLELABEL** (non-terminal) and **TESTER** (a result of the production rule of that non-terminal), etc.
- Terminal textual labels are typed in non-small-capital characters. They shall be typeset in the same font, as they appear on the figure, e.g. if a terminal textual label is typed in **bold**, bold font shall be used in the shape for that terminal textual symbol, e.g. **timer**, etc.
- The outermost border of a shape shall not be hidden, unless it is stated explicitly.
https://standards.iteh.ai/catalog/standards/sist/02083e34-c433-4314-a22a-43927d1f95/sist_es_203_119-2_v1.4.1.pdf
- Compartments and non-terminal textual labels may be hidden to simplify the internal structure of the shape.
- In the figures, optional compartments are shaded in a light grey colour, while optional non-terminal textual labels are typed in grey colour. However, the colour and the shading indicate only the optionality of a compartment or a non-terminal label. That is, if they are actually present in a test description, they shall not be shaded and shall be typed in black.
- If a non-terminal textual label is defined to be optional, that non-terminal textual label shall only be shown if the surrounding compartment is shown and the corresponding non-terminal textual production rule results in a non-empty string or a non-empty collection of strings.
- If an optional compartment contains a mandatory terminal or non-terminal textual label, the text shall only be shown if the surrounding compartment is shown.
- References to non-terminal textual production rules external to the given shape are represented by the name of the referenced production rule enclosed in angle brackets (e.g. <REFERENCEDPRODUCTIONRULE>).
- A non-terminal textual label in between hashmarks (e.g. #ELEMENT#) denotes a placeholder for a shape identified by that non-terminal textual label.

4.3.2 Symbols for non-terminal textual labels

Non-terminal textual labels are specified by production rules (so called non-terminal textual label production rule). The formal specification of a non-terminal textual label production rule is expressed by OCL. The context meta-model element for the OCL expression is specified prior to the non-terminal textual label specification. In some cases, the definition of OCL expression would be too complex for understanding. In that case, pseudo-code like helper notations are used.

The OCL expressions are combined with a variant of the Backus-Naur Form (Extended Backus-Naur Form - EBNF). The conventions within the present document for the production rules are:

- OCL keywords and helper functions are typed in **bold**.
- The keyword **context** followed by the name of TDL metaclass determines the context element for the following production rule (e.g. **context** Package).
- Non-terminal textual labels production rule identifiers are always represented in small capitals (e.g. **LABELPRODUCTIONRULE**).
- Non-terminal textual label production rule definitions are signified with the '`::=`' operator.
- OCL expressions are written in lower case characters (e.g. `self.name`).
- Non-terminal textual labels may contain terminal symbols. A terminal symbol is enclosed in single quotes (e.g. 'keyword' or '[').
- Alternative choices between symbols in a production rule are separated by the '`|`' symbol (e.g. `symbol1 | symbol2`).
- Symbols that are optional are enclosed in square brackets '`[]`' (e.g. `[symbol]`).
- In case the context of an OCL expression needs to be changed for non-terminal textual label production rule, the predefined function *variable as context in <LABELPRODUCTIONRULE>* shall be used to invoke a production rule of a different metaclass, where *variable* refers to an instance of a metaclass that complies with the context of the invoked **<LABELPRODUCTIONRULE>**.
- If the OCL expression of a production rule results in a collection of strings, a collection helper function **separator(String)** is used to specify the delimiter between any two strings in the collection, e.g. `self.collectionProperty->separator()`. The collection helper function **newline()** inserts a line break between any two strings in the collection.
- Iterations over collections of attributes of a metaclass use a verbatim (non-OCL) helper function **foreach** with the following syntax: <https://standards.techatalog.standards/5402083e34c433-2d14-a372-a3924df1195/sist-es-203-119-2-v1.4.1-2020>. **foreach VariableName : VariableType [separator(String)|newline()] in OCLexpression end**. *VariableName* is an alphanumeric word signifying the variable used for subsequent statement. *VariableType* is a string that shall be the same as a TDL metaclass name. *OCLexpression* is an OCL statement that resolves in a collection of metaclass elements compliant to the metaclass given in *VariableType*. For example, the statement `LABEL ::= foreach e:Element in self.attribute end`, iterates of the elements in the collection `self.attribute` and stores resulting element of each iteration in variable *e*. The variable *e* can be used in the body of the loop for further calculations. In every iteration, the non-terminal textual production rule `LABEL` is invoked, and the respective instance of metaclass `Element` that is stored in *e* will be used in the invoked production rule. The collection helper functions **separator(String)** and **newline()** may also be applied directly to the **foreach** construct.
- For the *PredefinedFunction* instances whose name starts and ends by a character '`_`' (actually they are infix operators) the (non-OCL) helper function **getOperatorSymbol()** is used to retrieve the operator symbol from the name. **getOperatorSymbol()** returns by the name of the *PredefinedFunction* instance without the character '`_`' at the beginning and at the end.

4.3.3 Examples

Test Objective TESTOBJECTIVENAMELABEL	
Description DESCRIPTIONLABEL	context TestObjective TESTOBJECTIVENAMELABEL ::= self.name DESCRIPTIONLABEL ::= self.description
Objective URI URLOFOBJECTIVELABEL	URLOFOBJECTIVELABEL ::= self.objectiveURI-> newline()

Figure 4.1: Notational convention example 1

In figure 4.1, the following notational concepts of the TDL Concrete Graphical Syntax are shown:

- The uppermost compartment contains a terminal textual label (a keyword) 'Test Objective' typed in bold.
- The context meta-model element of this shape is *TestObjective*.
- The non-terminal textual label production rule TESTOBJECTIVENAMELABEL results in the name of the context element (i.e. self.name).
- There are two optional compartments (i.e. shaded grey) shown ordered from top to down.
- Both compartments contain a mandatory terminal textual label (i.e. the label shall be shown if the surrounding compartment is shown). The terminal textual labels shall be typed in bold (**Description** and **Objective URI**, respectively).
- Both compartments contain an optional non-terminal textual label (i.e. the label shall be shown if the surrounding compartment is shown and the production rules results in a non-empty string or a non-empty collection of strings).
- The separator between the elements of the self.objectiveURI in production rule URLOFOBJECTIVELABEL is a new line.

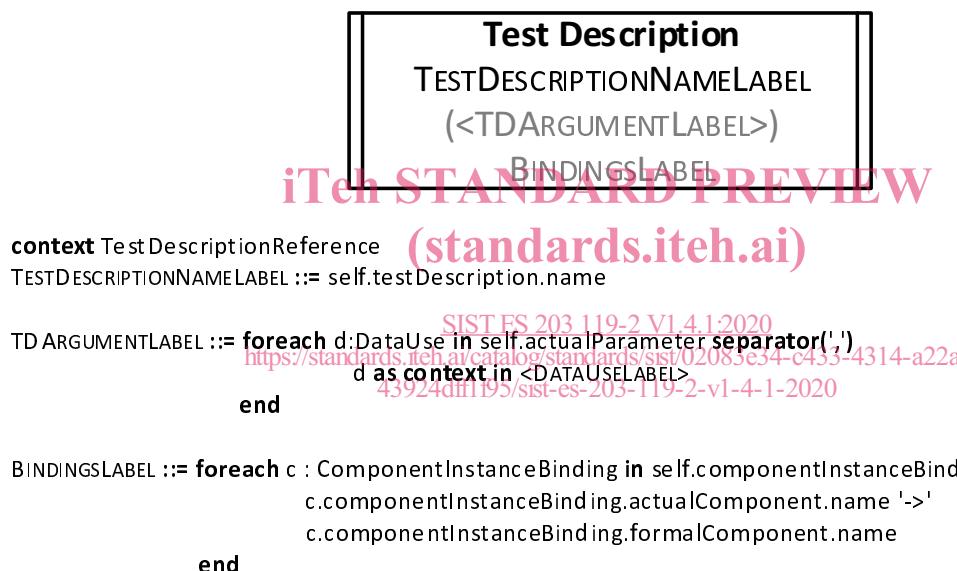


Figure 4.2: Notational convention example showing the foreach helper function

In figure 4.2, the use of a non-OCL *foreach* helper function is illustrated. The context element when entering the *foreach* loop is *TestDescriptionReference*. The first *foreach* loop assigns iteratively each element in the collection *self.actualParameter* to the variable *d* of type *DataUse*. The variable *d* then used as it is described in the referenced production rule *DATAUSELABEL*. The separator between the results of the iterations is ',' (a comma character). The second *foreach* loop assigns iteratively each element in the collection *self.componentInstanceBinding* to the variable *c* of type *ComponentInstanceBinding*. The variable *c* is then used in a subsequent non-terminal textual label production rule to build the label for the production rule. The separator between the results of the iterations is ',' (a comma character).

4.4 Conformance

For an implementation claiming to conform to this version of the TDL Concrete Graphical Syntax, all features specified in the present document and in ETSI ES 203 119-1 [1] shall be implemented consistently with the requirements given in the present document and ETSI ES 203 119-1 [1].

5 Diagram

There are two kinds of diagrams provided by the TDL Graphical Syntax. The first is a generic TDL diagram in which all diagram elements can be represented. The second is an optional TDL behaviour diagram where the behaviour of a single test description can be represented. There may be multiple instances of both kinds of TDL diagrams at the same time.

The shapes that may be placed onto a generic TDL diagram are specified in clause 6. A subset of the shapes related to the behaviour of a single test description may also be placed onto a TDL behaviour diagram.

6 Shapes

6.1 Foundation

6.1.1 Element

Concrete Graphical Notation

This is an abstract metaclass, therefore no graphical representation is defined.

Formal Description

context Element

ELEMENTNAMELABEL ::= self.name

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To a shape of any subclass of *Element*, the name of that *Element* may be attached by a thin dashed line unless it is stated otherwise in the shape definition of a given subclass of *Element*.



6.1.2 NamedElement

Concrete Graphical Notation

This is an abstract metaclass, therefore no graphical representation is defined.

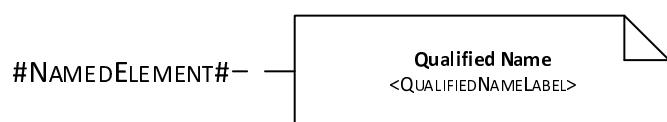
Formal Description

context NamedElement

QUALIFIEDELEMENTLABEL ::= self.qualifiedName

Comments

To a shape of any subclass of *NamedElement*, the qualified name of that *NamedElement* may be attached by a thin dashed line, except for those subclasses where it is specified otherwise.



6.1.3 ElementImport

Concrete Graphical Notation

This metaclass has no dedicated shape, it is used solely in the shapes of other metaclasses.

Formal Description

context ElementImport

```
IMPORTLABEL ::= 'from' self.importedPackage.qualifiedName
  if self.importedElement->isEmpty() then
    'all'
  else
    self.importedElement.name->separator(',')
  endif
```

Comments

No comments.

6.1.4 Package

Concrete Graphical Notation



Formal Description

context Package

PNLABEL ::= self.name

```
IMPORTELEMENTSLABEL ::= foreach i:ElementImport in self.import
  i as context in <IMPORTLABEL> separator(',')
end
```

Comments

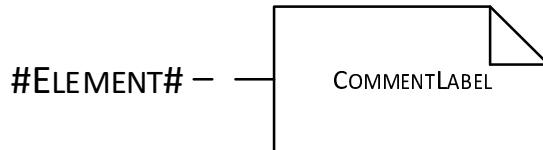
The figures above indicate the two possible representations of the *Package* shape: the PNLABEL may be written either in the top, small compartment or in the middle one.

The elements the package contains (packagedElements) may be shown within the large rectangle in the middle. In this case the PNLABEL shall be in the upper small compartment.

The lower **import** compartment is optional, it shall only be represented if the package imports other package(s) or elements from other package(s). If this compartment is present, its content shall also be present.

6.1.5 Comment

Concrete Graphical Notation



Formal Description

context Comment

COMMENTLABEL ::= self.body

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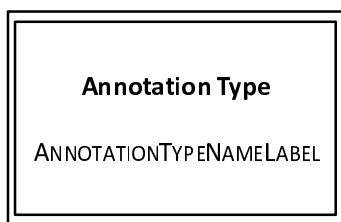
A *Comment* shape shall be attached to the commented element by a thin dashed line.

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6.1.6 AnnotationType

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Concrete Graphical Notation



Formal Description

context AnnotationType

ANNOTATIONTYPELABEL ::= self.name

Comments

No comments.