



# Statement of compliance for Eclipse Titan

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## **Abstract**

The present document provides the Implementation Conformance Statement (ICS) proforma for the conformance test suite for the Eclipse Titan TTCN-3 implementation.

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## **Disclaimer**

The contents of this document are subject to revision without notice due to continued progress in methodology, design and manufacturing. Ericsson shall have no liability for any error or damage of any kind resulting from the use of this document.

# Chapter 1. Description

The present document provides the Implementation Conformance Statement (ICS) proforma for the conformance test suite for the Eclipse Titan TTCN-3 implementation as defined in [ES 201 873-1](#) in compliance with the relevant guidance given in the proforma for TTCN-3 reference test suite [TS 102 995](#).

In the present document only the core language features, specified in [ES 201 873-1](#) have been considered but not

- the tool implementation (see [Methods for Testing and Specification \(MTS\); The Testing and Test Control Notation version 3; Part 5: TTCN-3 Runtime Interface \(TRI\)](#) and [ETSI ES 201 873-6: Methods for Testing and Specification \(MTS\); The Testing and Test Control Notation version 3; Part 6: TTCN-3 Control Interface \(TCI\)](#)),
- language mapping (see [Methods for Testing and Specification \(MTS\); The Testing and Test Control Notation version 3; Part 7: Using ASN.1 with TTCN-3](#), [Methods for Testing and Specification \(MTS\); The Testing and Test Control Notation version 3; Part 8: The IDL to TTCN-3 Mapping](#) and [Methods for Testing and Specification \(MTS\); The Testing and Test Control Notation version 3; Part 9: Using XML schema with TTCN-3](#))
- and language extension (see e.g. [Methods for Testing and Specification \(MTS\); The Testing and Test Control Notation version 3; TTCN-3 Language Extensions: Configuration and Deployment Support](#), [Methods for Testing and Specification \(MTS\); The Testing and Test Control Notation version 3; TTCN-3 Language Extensions: Advanced Parameterization](#) and [Methods for Testing and Specification \(MTS\); The Testing and Test Control Notation version 3; TTCN-3 Language Extensions: Behaviour Types](#)) aspects.

# Chapter 2. References

## 2.1. Normative references

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

1. [ETSI ES 201 873-1: Methods for Testing and Specification \(MTS\); The Testing and Test Control Notation version 3; Part 1: TTCN-3 Core Language v4.7.1.](#)
2. [ISO/IEC 9646-7 \(1994\): Conformance testing methodology and framework - Part 7: Implementation Conformance Statement.](#)
3. [ISO/IEC 9646-1 \(1992\): Information Technology - Open Systems Interconnection - Conformance Testing Methodology and Framework - Part 1: General concepts.](#)
4. [ETSI TS 102 995: Methods for Testing and Specification \(MTS\); The Testing and Test Control Notation version 3; Proforma for TTCN-3 reference test suite](#)

## 2.2. Informative references

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.

5. [ETSI ES 201 873-5: Methods for Testing and Specification \(MTS\); The Testing and Test Control Notation version 3; Part 5: TTCN-3 Runtime Interface \(TRI\).](#)
6. [ETSI ES 201 873-6: Methods for Testing and Specification \(MTS\); The Testing and Test Control Notation version 3; Part 6: TTCN-3 Control Interface \(TCI\).](#)
7. [ETSI ES 201 873-7: Methods for Testing and Specification \(MTS\); The Testing and Test Control Notation version 3; Part 7: Using ASN.1 with TTCN-3.](#)
8. [ETSI ES 201 873-8: Methods for Testing and Specification \(MTS\); The Testing and Test Control Notation version 3; Part 8: The IDL to TTCN-3 Mapping.](#)
9. [ETSI ES 201 873-9: Methods for Testing and Specification \(MTS\); The Testing and Test Control Notation version 3; Part 9: Using XML schema with TTCN-3.](#)
10. [ETSI ES 202 781: Methods for Testing and Specification \(MTS\); The Testing and Test Control Notation version 3; TTCN-3 Language Extensions: Configuration and Deployment Support.](#)
11. [ETSI ES 202 784: Methods for Testing and Specification \(MTS\); The Testing and Test Control Notation version 3; TTCN-3 Language Extensions: Advanced Parameterization.](#)
12. [ETSI ES 202 785: Methods for Testing and Specification \(MTS\); The Testing and Test Control Notation version 3; TTCN-3 Language Extensions: Behaviour Types.](#)

# Chapter 3. Definitions and abbreviations

## 3.1. Definitions

**Abstract Test Suite (ATS):**

Test suite composed of abstract test cases

**Implementation Conformance Statement (ICS):**

Statement made by the supplier of an implementation claimed to conform to a given specification, stating which capabilities have been implemented

**ICS proforma:**

Document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS

**Implementation eXtra Information for Testing (IXIT):**

Statement made by a supplier or implementor of an IUT which contains or references all of the information related to the IUT and its testing environment, which will enable the test laboratory to run an appropriate test suite against the IUT

**IXIT proforma:**

Document, in the form of a questionnaire, which when completed for the IUT becomes the IXIT

**Implementation Under Test (IUT):**

Implementation of one or more OSI protocols in an adjacent user/provider relationship, being part of a real open system which is to be studied by testing

## 3.2. Abbreviations

**ATS**

Abstract Test Suite

**BNF**

Backus Naur Form

**ICS**

Implementation Conformance Statement

**IUT**

Implementation under Test

**IXIT**

Implementation eXtra Information for Testing

**SUT**

System Under Test

**TC**

Test Case

**TCI**

TTCN-3 Control Interface

**TP**

Test Purpose

**TRI**

TTCN-3 Runtime Interface

**TS**

Test System

**TSS**

Test Suite Structure

**TSS&TP**

Test Suite Structure and Test Purposes

**TTCN-3**

Testing and Test Control Notation edition 3

# Chapter 4. Instructions for completing the ICS proforma

## 4.1. Other information

More detailed instructions are given at the beginning of the different clauses of the ICS proforma.

The supplier of the implementation shall complete the ICS proforma in each of the spaces provided. If necessary, the supplier may provide additional comments separately in Clause A.4.

### 4.1.1. Purposes and structure

The purpose of this ICS proforma is to provide a mechanism whereby a TTCN-3 tool vendor of the [TTCN-3 core language](#) may provide information about the implementation in a standardized manner.

The ICS proforma is subdivided into clauses for the following categories of information:

- instructions for completing the ICS proforma;
- identification of the implementation;
- ICS proforma tables (containing the global statement of conformance).

### 4.1.2. Conventions

The ICS proforma is composed of information in tabular form in accordance with the guidelines presented in [ISO/IEC 96467](#) .

- Item column

It contains a number that identifies the item in the table.

- Item description column

It describes each respective item (e.g. parameters, timers, etc.).

- Reference column

It gives reference to the [TTCN-3 core language](#), except where explicitly stated otherwise.

- Status column

The following notations, defined in [ISO/IEC 96467](#) , are used for the status column:

**m**

mandatory - the capability is required to be supported.

**n/a**

not applicable - in the given context, it is impossible to use the capability. No answer in the

support column is required.

**u**

undecided

**o**

optional - the capability may be supported or not.

**o.i**

qualified optional - for mutually exclusive or selectable options from a set. **i** is an integer which identifies a unique group of related optional items and the logic of their selection which is defined immediately following the table.

**ci**

conditional - the requirement on the capability ("m", "o" or "n/a") depends on the support of other optional or conditional items. **i** is an integer identifying a unique conditional status expression that is defined immediately following the table. For nested conditional expressions, the syntax **IF ... THEN (IF ... THEN ... ELSE...)** **ELSE ...** shall be used to avoid ambiguities. If an **ELSE** clause is omitted, **ELSE n/a** shall be implied.

**NOTE**

Support of a capability means that the capability is implemented in conformance to the [TTCN-3 core language](#).

- Support column

The support column shall be filled in by the supplier of the implementation. The following common notations, defined in ISO/IEC 96467 [2], are used for the support column:

Y or y supported by the implementation.

N or n not supported by the implementation.

N/A or n/a or "no answer required" (allowed only if the status is N/A, directly or after evaluation of a conditional status).

- Values allowed column

This column contains the values or the ranges of values allowed.

- Values supported column

The support column shall be filled in by the supplier of the implementation. In this column the values or the ranges of values supported by the implementation shall be indicated.

- References to items

For each possible item answer (answer in the support column) within the ICS proforma, a unique reference exists. It is defined as the table identifier, followed by a slash character "/", followed by the item number in the table. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.) respectively.

EXAMPLE: 5/4 is the reference to the answer of item 4 in Table 5.

## 4.2. Identification of the implementation

Identification of the Implementation under Test (IUT) and the system in which it resides - the System Under Test (SUT) should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the ICS should be named as the contact person.

### 4.2.1. Date of the statement

<b>Date of the statement:</b>	2016.05.09
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### 4.2.2. Implementation under Test (IUT) identification

<b>IUT name:</b>	<b>Eclipse Titan</b>
IUT version:	CRL 113 200/5 R5A

### 4.2.3. ICS contact person

<b>Name:</b>	<b>Elemer Lelik</b>
Telephone number:	
Facsimile number:	
E-mail address:	<a href="mailto:Elemer.Lelik@ericsson.com">Elemer.Lelik@ericsson.com</a>
Additional information:	

# Chapter 5. ICS proforma tables

## 5.1. Global statement of conformance

	(Yes/No)
Are all mandatory capabilities implemented?	

**NOTE** Nonsupported mandatory capabilities are to be identified in the ICS, with an explanation of why the implementation is nonconforming.

## 5.2. Basic language elements

Table 1. Basic language elements

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSyn_05_To pLevel_001	When the IUT loads a module containing some definitions before the module declaration then the module is rejected.	Clause 5	m	y

## 5.3. Identifiers and keywords

Table 2. Identifiers and keywords

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_0501_Identifier_001	Cannot pass a charstring value to an integer variable.	Clause 5.1	m	y
2	NegSyn_0501_Identifier_001	When the IUT loads a module containing an identifier named with a keyword then the module is rejected.	Clause 5.1	m	y
3	Syn_0501_Identifier_001	The IUT handle the identifiers case sensitively.	Clause 5.1	m	y

## 5.4. Scope rules

Table 3. Scope rules

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_0502_Scope_001	The IUT correctly handles definitions of local scope	Clause 5.2	m	y
2	NegSem_0502_Scope_002	The IUT correctly handles definitions of local scope	Clause 5.2	m	y
3	NegSem_0502_Scope_003	The IUT correctly handles definitions of local scope	Clause 5.2	m	y
4	Sem_0502_Scope_001	The IUT handle scope hiearchy of component constants.	Clause 5.2	m	y
5	Sem_0502_Scope_002	The IUT handle scope hiearchy with component booleans.	Clause 5.2	m	y
6	Sem_0502_Scope_003	The IUT handles scope hierarchy via functions.	Clause 5.2	m	y
7	Sem_0502_Scope_004	The IUT correctly handles the scope of definitions made in the module part.	Clause 5.2	m	y
8	Sem_0502_Scope_008	The IUT correctly handles definitions of extended component scope	Clause 5.2	m	y
9	Syn_0502_Scope_001	The IUT supports all the nine scope units.	Clause 5.2	m	y

## 5.5. Scope of formal parameters

Table 4. Scope of formal parameters

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_050201_Scope_of_parameters_001	The IUT correctly handles scope of formal function parameters	Clause 5.2.1	m	y
2	Sem_050201_Scope_of_parameters_002	The IUT correctly handles scope of formal function parameters	Clause 5.2.1	m	y

## 5.6. Uniqueness of identifiers

Table 5. Uniqueness of identifiers

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
1	NegSem_050202_Uniqueness_001	The IUT correctly handles the uniqueness of variable names in its scope	Clause 5.2.2	m	y
2	NegSem_050202_Uniqueness_004	The IUT correctly handles the uniqueness of variable names in its scope	Clause 5.2.2	m	y
3	NegSem_050202_Uniqueness_005	The IUT correctly handles the uniqueness of variable names in its scope	Clause 5.2.2	m	y
4	NegSem_050202_Uniqueness_006	The IUT correctly handles the uniqueness of variable names in its scope	Clause 5.2.2	m	y
5	NegSem_050202_Uniqueness_007	The IUT correctly handles the uniqueness of variable names in its scope	Clause 5.2.2	m	y
6	NegSem_050202_Uniqueness_008	The IUT correctly handles the uniqueness of variable names in its scope	Clause 5.2.2	m	y
7	NegSem_050202_Uniqueness_009	The IUT correctly handles the uniqueness of variable names in its scope	Clause 5.2.2	m	y
8	NegSem_050202_Uniqueness_010	The IUT correctly handles the uniqueness of variable names in its scope	Clause 5.2.2	m	y
9	NegSem_050202_Uniqueness_011	The IUT correctly handles the uniqueness of variable names in its scope	Clause 5.2.2	m	n
10	NegSem_050202_Uniqueness_012	The IUT correctly handles the uniqueness of variable names in its scope	Clause 5.2.2	m	n
11	Sem_050202_Uniqueness_001	The IUT correctly handles the uniqueness of variable names in its scope	Clause 5.2.2	m	y
12	Sem_050202_Uniqueness_002	The IUT correctly handles the uniqueness of variable names in its scope	Clause 5.2.2	m	y
13	Sem_050202_Uniqueness_003	The IUT correctly handles the uniqueness of variable names in its scope	Clause 5.2.2	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
14	Sem_050202_Uniqueness_004	Identifiers for fields of structured types, enumerated values and groups do not have to be globally unique	Clause 5.2.2	m	y
15	Sem_050202_Uniqueness_005	Identifiers for fields of structured types, enumerated values and groups do not have to be globally unique	Clause 5.2.2	m	y

## 5.7. Ordering of language elements

Table 6. Ordering of language elements

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
1	NegSem_0503_Ordering_001	Declarations are in the allowed ordering	Clause 5.3	m	y
2	NegSem_0503_Ordering_002	Declarations are in the allowed ordering	Clause 5.3	m	n
3	NegSem_0503_Ordering_003	Declarations are in the allowed ordering	Clause 5.3	m	n
4	Sem_0503_Ordering_001	Allowed orderings of declarations are supported	Clause 5.3	m	y
5	Sem_0503_Ordering_002	Allowed any ordering with component definitions are supported	Clause 5.3	m	y
6	Sem_0503_Ordering_005	Allowed orderings of declarations are supported	Clause 5.3	m	y

## 5.8. Parameterization

Table 7. Parameterization

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_0504_parametrization_incompatibility_001	The IUT correctly handles received testcase parametrization type incompatibility.	Clause 5.4	m	y
2	NegSyn_0504_forbidden_parametrization_001	The IUT rejects forbidden module parametrization types.	Clause 5.4	m	n
3	NegSyn_0504_forbidden_parametrization_002	The IUT rejects forbidden module parametrization types.	Clause 5.4	m	y

## 5.9. Formal parameters

Table 8. Formal parameters

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_0504_01_top_level_001	verify that error is generated for incompatible actual value of <b>in</b> parameter	Clause 5.4.1	m	y
2	NegSem_0504_01_top_level_002	verify that error is generated for incompatible actual value of <b>out</b> parameter	Clause 5.4.1	m	y
3	NegSem_0504_01_top_level_003	verify that error is generated if actual <b>inout</b> parameter doesn't adhere to strong typing rules	Clause 5.4.1	m	n
4	Sem_050401_top_level_001	verify that <b>in</b> parameters can be read within parametrized content	Clause 5.4.1	m	y
5	Sem_050401_top_level_002	verify that <b>out</b> parameters can be read within parametrized content	Clause 5.4.1	m	n
6	Sem_050401_top_level_003	verify that <b>inout</b> parameters can be read within parametrized content	Clause 5.4.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
7	Sem_050401_t op_level_004	verify that <b>in</b> parameters can be set within parametrized content	Clause 5.4.1	m	y
8	Sem_050401_t op_level_005	verify that <b>out</b> parameters can be set within parametrized content	Clause 5.4.1	m	y
9	Sem_050401_t op_level_006	verify that <b>inout</b> parameters can be set within parametrized content	Clause 5.4.1	m	y
10	Sem_050401_t op_level_007	verify that <b>in</b> parameters can be used as actual in parameters of parameterized objects	Clause 5.4.1	m	y
11	Sem_050401_t op_level_008	verify that <b>in</b> parameters can be used as actual out parameters of parameterized objects	Clause 5.4.1	m	y
12	Sem_050401_t op_level_009	verify that <b>in</b> parameters can be used as actual <b>inout</b> parameters of parameterized objects	Clause 5.4.1	m	y
13	Sem_050401_t op_level_010	verify that <b>out</b> parameters can be used as actual <b>in</b> parameters of parameterized objects	Clause 5.4.1	m	y
14	Sem_050401_t op_level_011	verify that <b>out</b> parameters can be used as actual <b>out</b> parameters of parameterized objects	Clause 5.4.1	m	y
15	Sem_050401_t op_level_012	verify that <b>out</b> parameters can be used as actual <b>inout</b> parameters of parameterized objects	Clause 5.4.1	m	y
16	Sem_050401_t op_level_013	verify that <b>inout</b> parameters can be used as actual <b>in</b> parameters of parameterized objects	Clause 5.4.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
17	Sem_050401_t op_level_014	verify that <b>inout</b> parameters can be used as actual <b>out</b> parameters of parameterized objects	Clause 5.4.1	m	y
18	Sem_050401_t op_level_015	verify that <b>inout</b> parameters can be used as actual <b>inout</b> parameters of parameterized objects	Clause 5.4.1	m	y
19	Sem_050401_t op_level_016	verify that compatibility rules are used for passing <b>in</b> parameters	Clause 5.4.1	m	y
20	Sem_050401_t op_level_017	verify that compatibility rules are used for passing <b>out</b> parameters	Clause 5.4.1	m	y
21	Sem_050401_t op_level_018	verify that strong typing is used for passing <b>inout</b> parameters	Clause 5.4.1	m	y
22	Sem_050401_t op_level_019	verify that <b>@lazy</b> modifier can be used for value parameters	Clause 5.4.1	m	y
23	Sem_050401_t op_level_020	verify that <b>@lazy</b> modifier can be used for template parameters	Clause 5.4.1	m	y
24	Sem_050401_t op_level_021	verify that <b>@lazy</b> parameters containing component variable references are properly evaluated	Clause 5.4.1	m	y
25	Sem_050401_t op_level_022	verify that <b>@fuzzy</b> modifier can be used for value parameters	Clause 5.4.1	m	y
26	Sem_050401_t op_level_023	verify that <b>@fuzzy</b> modifier can be used for template parameters	Clause 5.4.1	m	y
27	Sem_050401_t op_level_024	verify that <b>@fuzzy</b> parameters containing component variable references are properly evaluated	Clause 5.4.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
28	Sem_050401_t op_level_025	verify that default values of <b>@lazy</b> parameters are properly evaluated	Clause 5.4.1	m	y
29	Sem_050401_t op_level_026	verify that default values of <b>@fuzzy</b> parameters are properly evaluated	Clause 5.4.1	m	n
30	Sem_050401_t op_level_027	verify that passing lazy parameter to formal parameter without modifier disables lazy evaluation	Clause 5.4.1	m	y
31	Sem_050401_t op_level_028	verify that passing fuzzy parameter to formal parameter without modifier disables fuzzy evaluation	Clause 5.4.1	m	y
32	Sem_050401_t op_level_029	verify that fuzzy parameter passed to lazy formal parameter enables lazy evaluation	Clause 5.4.1	m	y

## 5.10. Formal parameters of kind value

Table 9. Formal parameters of kind value

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_0504 0101_parameters_of_kind_value_001	verify that <b>in</b> value formal parameters of template cannot used dash as default value	Clause 5.4.1.1	m	y
2	NegSem_0504 0101_parameters_of_kind_value_002	verify that modified template cannot used dash as default value when original value parameter had no default value	Clause 5.4.1.1	m	y
3	NegSem_0504 0101_parameters_of_kind_value_003	verify that template definitions cannot contain <b>out</b> value formal parameters	Clause 5.4.1.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
4	NegSem_05040101_parameters_of_kind_value_004	verify that template definitions cannot contain <b>inout</b> value formal parameters	Clause 5.4.1.1	m	y
5	NegSem_05040101_parameters_of_kind_value_005	verify that <b>out</b> value formal parameters cannot have default values	Clause 5.4.1.1	m	y
6	NegSem_05040101_parameters_of_kind_value_006	verify that <b>inout</b> value formal parameters cannot have default values	Clause 5.4.1.1	m	y
7	NegSem_05040101_parameters_of_kind_value_007	verify that incompatible value in default value assignment of value formal parameters causes error	Clause 5.4.1.1	m	y
8	NegSem_05040101_parameters_of_kind_value_008	verify that default value of value formal parameters cannot reference component variables	Clause 5.4.1.1	m	y
9	NegSem_05040101_parameters_of_kind_value_009	verify that default value of value formal parameters cannot reference other parameters	Clause 5.4.1.1	m	y
10	NegSem_05040101_parameters_of_kind_value_010	verify that default value of value formal parameters cannot invoke functions with <b>runs on</b> clause	Clause 5.4.1.1	m	y
11	NegSem_05040101_parameters_of_kind_value_011	verify that error is generated if formal value parameter of function contains dash	Clause 5.4.1.1	m	y
12	NegSem_05040101_parameters_of_kind_value_012	verify that error is generated if formal value parameter of altstep contains dash	Clause 5.4.1.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
13	NegSem_05040101_parameters_of_kind_value_013	verify that error is generated if formal value parameter of test case contains dash	Clause 5.4.1.1	m	y
14	NegSem_05040101_parameters_of_kind_value_014	verify that <b>out</b> formal value parameters cannot have lazy modifier	Clause 5.4.1.1	m	y
15	NegSem_05040101_parameters_of_kind_value_015	verify that <b>out</b> formal value parameters cannot have fuzzy modifier	Clause 5.4.1.1	m	n
16	NegSem_05040101_parameters_of_kind_value_016	verify that <b>inout</b> formal value parameters cannot have lazy modifier	Clause 5.4.1.1	m	y
17	NegSem_05040101_parameters_of_kind_value_017	verify that <b>inout</b> formal value parameters cannot have fuzzy modifier	Clause 5.4.1.1	m	n
18	NegSyn_05040101_parameters_of_kind_value_001	verify that <b>const</b> definition cannot be parameterized	Clause 5.4.1.1	m	y
19	NegSyn_05040101_parameters_of_kind_value_002	verify that <b>var</b> definition cannot be parameterized	Clause 5.4.1.1	m	y
20	NegSyn_05040101_parameters_of_kind_value_003	verify that template variable definition cannot be parameterized	Clause 5.4.1.1	m	y
21	NegSyn_05040101_parameters_of_kind_value_004	verify that timer definition cannot be parameterized	Clause 5.4.1.1	m	y
22	NegSyn_05040101_parameters_of_kind_value_005	verify that control definition cannot be parameterized	Clause 5.4.1.1	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
23	NegSyn_05040101_parameters_of_kind_value_006	verify that record of definition cannot be parameterized	Clause 5.4.1.1	m	y
24	NegSyn_05040101_parameters_of_kind_value_007	verify that set of definition cannot be parameterized	Clause 5.4.1.1	m	y
25	NegSyn_05040101_parameters_of_kind_value_008	verify that enumerated definition cannot be parameterized	Clause 5.4.1.1	m	y
26	NegSyn_05040101_parameters_of_kind_value_009	verify that port definition cannot be parameterized	Clause 5.4.1.1	m	y
27	NegSyn_05040101_parameters_of_kind_value_010	verify that component definition cannot be parameterized	Clause 5.4.1.1	m	y
28	NegSyn_05040101_parameters_of_kind_value_011	verify that subtype definition cannot be parameterized	Clause 5.4.1.1	m	y
29	NegSyn_05040101_parameters_of_kind_value_012	verify that group definition cannot be parameterized	Clause 5.4.1.1	m	y
30	NegSyn_05040101_parameters_of_kind_value_013	verify that import definition cannot be parameterized	Clause 5.4.1.1	m	y
31	Sem_05040101_parameters_of_kind_value_001	The IUT correctly handles parametrization through the use of module parameters.	Clause 5.4.1.1	m	y
32	Sem_05040101_parameters_of_kind_value_002	The IUT correctly handles parametrization through the use of module parameters.	Clause 5.4.1.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
33	Sem_05040101_parameters_of_kind_value_003	The IUT correctly handles parametrization through the use of module parameters.	Clause 5.4.1.1	m	y
34	Sem_05040101_parameters_of_kind_value_004	The IUT correctly handles parametrization through the use of module parameters.	Clause 5.4.1.1	m	y
35	Sem_05040101_parameters_of_kind_value_005	verify that template definition can contain <b>in</b> value formal parameters	Clause 5.4.1.1	m	y
36	Sem_05040101_parameters_of_kind_value_006	verify that local template definition can contain <b>in</b> value formal parameters	Clause 5.4.1.1	m	n
37	Sem_05040101_parameters_of_kind_value_007	verify that function definition can contain <b>in</b> , <b>out</b> and <b>inout</b> value formal parameters	Clause 5.4.1.1	m	y
38	Sem_05040101_parameters_of_kind_value_008	verify that altstep definition can contain <b>in</b> , <b>out</b> and <b>inout</b> value formal parameters	Clause 5.4.1.1	m	y
39	Sem_05040101_parameters_of_kind_value_009	verify that test case definition can contain <b>in</b> , <b>out</b> and <b>inout</b> value formal parameters	Clause 5.4.1.1	m	y
40	Sem_05040101_parameters_of_kind_value_010	verify that value formal parameters can be used in expressions	Clause 5.4.1.1	m	y
41	Sem_05040101_parameters_of_kind_value_011	verify that <b>in</b> value formal parameters of template can have default values	Clause 5.4.1.1	m	n
42	Sem_05040101_parameters_of_kind_value_012	verify that <b>in</b> value formal parameters of local template can have default values	Clause 5.4.1.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
43	Sem_05040101_parameters_of_kind_value_013	verify that <b>in</b> value formal parameters of function can have default values	Clause 5.4.1.1	m	y
44	Sem_05040101_parameters_of_kind_value_014	verify that <b>in</b> value formal parameters of altstep can have default values	Clause 5.4.1.1	m	y
45	Sem_05040101_parameters_of_kind_value_015	verify that <b>in</b> value formal parameters of test case can have default values	Clause 5.4.1.1	m	y
46	Sem_05040101_parameters_of_kind_value_016	verify that <b>in</b> value formal parameters of modified template can used dash as default value	Clause 5.4.1.1	m	y
47	Sem_05040101_parameters_of_kind_value_017	verify that <b>null</b> is suitable default value of formal value parameters of component type	Clause 5.4.1.1	m	y
48	Sem_05040101_parameters_of_kind_value_018	verify that <b>self</b> is suitable default value of formal value parameters of component type	Clause 5.4.1.1	m	n
49	Sem_05040101_parameters_of_kind_value_019	verify that <b>mtc</b> is suitable default value of formal value parameters of component type	Clause 5.4.1.1	m	y
50	Sem_05040101_parameters_of_kind_value_020	verify that <b>system</b> is suitable default value of formal value parameters of component type	Clause 5.4.1.1	m	y
51	Sem_05040101_parameters_of_kind_value_021	verify that <b>null</b> can be used as default value of formal value parameters of default type	Clause 5.4.1.1	m	y
52	Sem_05040101_parameters_of_kind_value_022	verify that passing by value and by reference works correctly	Clause 5.4.1.1	m	y

## 5.11. Formal parameters of kind template

Table 10. Formal parameters of kind template

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_05040102_parameters_of_kind_template_001	verify that <b>in</b> template formal parameters of template cannot used dash as default value	Clause 5.4.1.2	m	y
2	NegSem_05040102_parameters_of_kind_template_002	verify that modified template cannot used dash as default value when original template parameter had no default value	Clause 5.4.1.2	m	y
3	NegSem_05040102_parameters_of_kind_template_003	verify that template definitions cannot contain <b>out</b> template formal parameters	Clause 5.4.1.2	m	y
4	NegSem_05040102_parameters_of_kind_template_004	verify that template definitions cannot contain <b>inout</b> template formal parameters	Clause 5.4.1.2	m	y
5	NegSem_05040102_parameters_of_kind_template_005	verify that <b>out</b> template formal parameters cannot have default values	Clause 5.4.1.2	m	y
6	NegSem_05040102_parameters_of_kind_template_006	verify that <b>inout</b> template formal parameters cannot have default values	Clause 5.4.1.2	m	y
7	NegSem_05040102_parameters_of_kind_template_007	verify that incompatible template instance in default template assignment of template formal parameters causes error	Clause 5.4.1.2	m	y
8	NegSem_05040102_parameters_of_kind_template_008	verify that default template instance of template formal parameters cannot reference component elements	Clause 5.4.1.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
9	NegSem_05040102_parameters_of_kind_template_009	verify that default template instance of template formal parameters cannot reference other parameters	Clause 5.4.1.2	m	y
10	NegSem_05040102_parameters_of_kind_template_010	verify that default template instance of template formal parameters cannot invoke functions with <b>runs on</b> clause	Clause 5.4.1.2	m	y
11	NegSem_05040102_parameters_of_kind_template_011	verify that error is generated if formal template parameter of function contains dash	Clause 5.4.1.2	m	n
12	NegSem_05040102_parameters_of_kind_template_012	verify that error is generated if formal template parameter of altstep contains dash	Clause 5.4.1.2	m	n
13	NegSem_05040102_parameters_of_kind_template_013	verify that error is generated if formal template parameter of test case contains dash	Clause 5.4.1.2	m	n
14	NegSem_05040102_parameters_of_kind_template_014	verify that out formal template parameters cannot have lazy modifier	Clause 5.4.1.2	m	y
15	NegSem_05040102_parameters_of_kind_template_015	verify that out formal template parameters cannot have fuzzy modifier	Clause 5.4.1.2	m	n
16	NegSem_05040102_parameters_of_kind_template_016	verify that <b>inout</b> formal template parameters cannot have lazy modifier	Clause 5.4.1.2	m	y
17	NegSem_05040102_parameters_of_kind_template_017	verify that <b>inout</b> formal template parameters cannot have fuzzy modifier	Clause 5.4.1.2	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
18	NegSem_05040102_parameters_of_kind_template_018	Verify that template parameter of an activated altstep cannot be an out parameter	Clause 5.4.1.2	m	n
19	NegSem_05040102_parameters_of_kind_template_019	Verify that template parameter of an activated altstep cannot be an inout parameter	Clause 5.4.1.2	m	n
20	NegSyn_05040102_parameters_of_kind_template_001	verify that module parameter of template kind is not allowed	Clause 5.4.1.2	m	n
21	Sem_05040102_parameters_of_kind_template_001	The IUT correctly handles parametrization through the use of parameterized templates.	Clause 5.4.1.2	m	y
22	Sem_05040102_parameters_of_kind_template_002	The IUT correctly handles parametrization through the use of parameterized templates.	Clause 5.4.1.2	m	y
23	Sem_05040102_parameters_of_kind_template_003	verify that template definition can contain in template formal parameters	Clause 5.4.1.2	m	y
24	Sem_05040102_parameters_of_kind_template_004	verify that local template definition can contain in template formal parameters	Clause 5.4.1.2	m	n
25	Sem_05040102_parameters_of_kind_template_005	verify that function definition can contain in, out and inout template formal parameters	Clause 5.4.1.2	m	y
26	Sem_05040102_parameters_of_kind_template_006	verify that altstep definition can contain in, out and inout template formal parameters	Clause 5.4.1.2	m	y
27	Sem_05040102_parameters_of_kind_template_007	verify that test case definition can contain in, out and inout template formal parameters	Clause 5.4.1.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
28	Sem_05040102_parameters_of_kind_template_008	verify that template formal parameters can be used in the same way as templates or template variables	Clause 5.4.1.2	m	y
29	Sem_05040102_parameters_of_kind_template_009	verify that <b>in</b> template formal parameters of template can have default values	Clause 5.4.1.2	m	y
30	Sem_05040102_parameters_of_kind_template_010	verify that <b>in</b> template formal parameters of local template can have default values	Clause 5.4.1.2	m	n
31	Sem_05040102_parameters_of_kind_template_011	verify that <b>in</b> template formal parameters of function can have default values	Clause 5.4.1.2	m	y
32	Sem_05040102_parameters_of_kind_template_012	verify that <b>in</b> template formal parameters of altstep can have default values	Clause 5.4.1.2	m	y
33	Sem_05040102_parameters_of_kind_template_013	verify that <b>in</b> template formal parameters of test case can have default values	Clause 5.4.1.2	m	y
34	Sem_05040102_parameters_of_kind_template_014	verify that <b>in</b> template formal parameters of modified template can used dash as default value	Clause 5.4.1.2	m	y
35	Sem_05040102_parameters_of_kind_template_015	verify that template definition can contain <b>in</b> template formal parameters with omit restriction	Clause 5.4.1.2	m	y
36	Sem_05040102_parameters_of_kind_template_016	verify that local template definition can contain <b>in</b> template formal parameters with omit restriction	Clause 5.4.1.2	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
37	Sem_05040102_parameters_of_kind_template_017	verify that function definition can contain <b>in</b> , <b>out</b> and <b>inout</b> template formal parameters with omit restriction	Clause 5.4.1.2	m	y
38	Sem_05040102_parameters_of_kind_template_018	verify that altstep definition can contain <b>in</b> , <b>out</b> and <b>inout</b> template formal parameters with omit restriction	Clause 5.4.1.2	m	y
39	Sem_05040102_parameters_of_kind_template_019	verify that test case definition can contain <b>in</b> , <b>out</b> and <b>inout</b> template formal parameters with omit restriction	Clause 5.4.1.2	m	y
40	Sem_05040102_parameters_of_kind_template_020	verify that template definition can contain <b>in</b> template formal parameters with present restriction	Clause 5.4.1.2	m	y
41	Sem_05040102_parameters_of_kind_template_021	verify that local template definition can contain <b>in</b> template formal parameters with present restriction	Clause 5.4.1.2	m	n
42	Sem_05040102_parameters_of_kind_template_022	verify that function definition can contain <b>in</b> , <b>out</b> and <b>inout</b> template formal parameters with present restriction	Clause 5.4.1.2	m	y
43	Sem_05040102_parameters_of_kind_template_023	verify that altstep definition can contain <b>in</b> , <b>out</b> and <b>inout</b> template formal parameters with present restriction	Clause 5.4.1.2	m	y
44	Sem_05040102_parameters_of_kind_template_024	verify that test case definition can contain <b>in</b> , <b>out</b> and <b>inout</b> template formal parameters with present restriction	Clause 5.4.1.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
45	Sem_05040102_parameters_of_kind_template_025	verify that template definition can contain <b>in</b> template formal parameters with value restriction	Clause 5.4.1.2	m	y
46	Sem_05040102_parameters_of_kind_template_026	verify that local template definition can contain <b>in</b> template formal parameters with value restriction	Clause 5.4.1.2	m	n
47	Sem_05040102_parameters_of_kind_template_027	verify that function definition can contain in, out and <b>inout</b> template formal parameters with value restriction	Clause 5.4.1.2	m	y
48	Sem_05040102_parameters_of_kind_template_028	verify that altstep definition can contain in, out and <b>inout</b> template formal parameters with value restriction	Clause 5.4.1.2	m	y
49	Sem_05040102_parameters_of_kind_template_029	verify that test case definition can contain in, out and <b>inout</b> template formal parameters with value restriction	Clause 5.4.1.2	m	y
50	Sem_05040102_parameters_of_kind_template_030	verify that template definition can contain in template formal parameters with short omit restriction	Clause 5.4.1.2	m	y
51	Sem_05040102_parameters_of_kind_template_031	verify that local template definition can contain in template formal parameters with short omit restriction	Clause 5.4.1.2	m	n
52	Sem_05040102_parameters_of_kind_template_032	verify that function definition can contain in, out and <b>inout</b> template formal parameters with short omit restriction	Clause 5.4.1.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
53	Sem_05040102_parameters_of_kind_template_033	verify that <code>altstep</code> definition can contain in, out and <code>inout</code> template formal parameters with short omit restriction	Clause 5.4.1.2	m	y
54	Sem_05040102_parameters_of_kind_template_034	verify that test case definition can contain in, out and <code>inout</code> template formal parameters with short omit restriction	Clause 5.4.1.2	m	y
55	Sem_05040102_parameters_of_kind_template_035	verify that <code>null</code> is suitable default value of formal template parameters of component type	Clause 5.4.1.2	m	y
56	Sem_05040102_parameters_of_kind_template_036	verify that <code>self</code> is suitable default value of formal template parameters of component type	Clause 5.4.1.2	m	n
57	Sem_05040102_parameters_of_kind_template_037	verify that <code>mtc</code> is suitable default value of formal template parameters of component type	Clause 5.4.1.2	m	y
58	Sem_05040102_parameters_of_kind_template_038	verify that <code>system</code> is suitable default value of formal template parameters of component type	Clause 5.4.1.2	m	y

## 5.12. Formal parameters of kind timer

Table 11. Formal parameters of kind timer

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_05040103_parameters_of_kind_timer_001	Verify that functions with timer parameters cannot be used in <code>component.start</code> operation	Clause 5.4.1.3	m	y
2	NegSem_05040103_parameters_of_kind_timer_002	Verify that altsteps with timer parameters cannot be used in <code>component.start</code> operation	Clause 5.4.1.3	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
3	NegSem_05040103_parameters_of_kind_timer_003	Verify that test cases cannot have timer parameters	Clause 5.4.1.3	m	y
4	NegSem_05040103_parameters_of_kind_timer_004	Verify that templates cannot have timer parameters	Clause 5.4.1.3	m	y
5	NegSyn_05040103_parameters_of_kind_timer_001	Verify that in timer parameters are not allowed	Clause 5.4.1.3	m	y
6	NegSyn_05040103_parameters_of_kind_timer_002	Verify that out timer parameters are not allowed	Clause 5.4.1.3	m	y
7	Sem_05040103_parameters_of_kind_timer_001	The IUT correctly handles parametrization through the use of timer parameters.	Clause 5.4.1.3	m	y
8	Sem_05040103_parameters_of_kind_timer_002	Verify that <code>inout</code> prefix can be used for timer parameters	Clause 5.4.1.3	m	y
9	Sem_05040103_parameters_of_kind_timer_003	Verify that <code>altstep</code> can have timer parameters	Clause 5.4.1.3	m	y

## 5.13. Formal parameters of kind port

Table 12. Formal parameters of kind port

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_05040104_parameters_of_kind_port_001	Verify that functions with port parameters cannot be used in <code>component.start</code> operation	Clause 5.4.1.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
2	NegSem_05040104_parameters_of_kind_port_002	Verify that altsteps with port parameters cannot be used in <code>component.start</code> operation	Clause 5.4.1.4	m	n
3	NegSem_05040104_parameters_of_kind_port_003	Verify that in port parameters are not allowed	Clause 5.4.1.4	m	y
4	NegSem_05040104_parameters_of_kind_port_004	Verify that out port parameters are not allowed	Clause 5.4.1.4	m	y
5	NegSem_05040104_parameters_of_kind_port_005	Verify that test cases cannot have port parameters	Clause 5.4.1.4	m	y
6	NegSem_05040104_parameters_of_kind_port_006	Verify that templates cannot contain port parameters	Clause 5.4.1.4	m	y
7	Sem_05040104_parameters_of_kind_port_001	The IUT accepts port parametrization types for functions.	Clause 5.4.1.4	m	y
8	Sem_05040104_parameters_of_kind_port_002	Verify that <code>inout</code> prefix can be used for port parameters	Clause 5.4.1.4	m	y

## 5.14. Actual parameters

Table 13. Actual parameters

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_050402_actual_parameters_001	verify that template parameters cannot be used as <code>in</code> formal value parameters of functions	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
2	NegSem_050402_actual_parameters_002	verify that template variables cannot be used as <b>in</b> formal value parameters of functions	Clause 5.4.2	m	y
3	NegSem_050402_actual_parameters_003	verify that template <b>in</b> parameters cannot be used as <b>in</b> formal value parameters of functions	Clause 5.4.2	m	y
4	NegSem_050402_actual_parameters_004	verify that template <b>out</b> parameters cannot be used as <b>in</b> formal value parameters of functions	Clause 5.4.2	m	y
5	NegSem_050402_actual_parameters_005	verify that template <b>inout</b> parameters cannot be used as <b>in</b> formal value parameters of functions	Clause 5.4.2	m	y
6	NegSem_050402_actual_parameters_006	verify that template parameters cannot be used as <b>in</b> formal value parameters of templates	Clause 5.4.2	m	y
7	NegSem_050402_actual_parameters_007	verify that template variables cannot be used as <b>in</b> formal value parameters of templates	Clause 5.4.2	m	y
8	NegSem_050402_actual_parameters_008	verify that template <b>in</b> parameters cannot be used as <b>in</b> formal value parameters of templates	Clause 5.4.2	m	y
9	NegSem_050402_actual_parameters_009	verify that template <b>out</b> parameters cannot be used as <b>in</b> formal value parameters of templates	Clause 5.4.2	m	y
10	NegSem_050402_actual_parameters_010	verify that template <b>inout</b> parameters cannot be used as <b>in</b> formal value parameters of templates	Clause 5.4.2	m	y
11	NegSem_050402_actual_parameters_011	verify that template parameters cannot be used as <b>in</b> formal value parameters of altsteps	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
12	NegSem_050402_actual_parameters_012	verify that template variables cannot be used as <b>in</b> formal value parameters of altsteps	Clause 5.4.2	m	y
13	NegSem_050402_actual_parameters_013	verify that template <b>in</b> parameters cannot be used as <b>in</b> formal value parameters of altsteps	Clause 5.4.2	m	y
14	NegSem_050402_actual_parameters_014	verify that template <b>out</b> parameters cannot be used as <b>in</b> formal value parameters of altsteps	Clause 5.4.2	m	y
15	NegSem_050402_actual_parameters_015	verify that template <b>inout</b> parameters cannot be used as <b>in</b> formal value parameters of altsteps	Clause 5.4.2	m	y
16	NegSem_050402_actual_parameters_016	verify that template parameters cannot be used as <b>in</b> formal value parameters of test cases	Clause 5.4.2	m	y
17	NegSem_050402_actual_parameters_017	verify that template variables cannot be used as <b>in</b> formal value parameters of test cases	Clause 5.4.2	m	y
18	NegSem_050402_actual_parameters_018	verify that template <b>in</b> parameters cannot be used as <b>in</b> formal value parameters of test cases	Clause 5.4.2	m	y
19	NegSem_050402_actual_parameters_019	verify that template <b>out</b> parameters cannot be used as <b>in</b> formal value parameters of test cases	Clause 5.4.2	m	y
20	NegSem_050402_actual_parameters_020	verify that template <b>inout</b> parameters cannot be used as <b>in</b> formal value parameters of test cases	Clause 5.4.2	m	y
21	NegSem_050402_actual_parameters_021	verify that literals cannot be used as <b>inout</b> formal value parameters of functions	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
22	NegSem_050402_actual_parameters_022	verify that module parameters cannot be used as <b>inout</b> formal value parameters of functions	Clause 5.4.2	m	y
23	NegSem_050402_actual_parameters_023	verify that constants cannot be used as <b>inout</b> formal value parameters of functions	Clause 5.4.2	m	y
24	NegSem_050402_actual_parameters_024	verify that function calls cannot be used as <b>inout</b> formal value parameters of functions	Clause 5.4.2	m	y
25	NegSem_050402_actual_parameters_025	verify that expressions cannot be used as <b>inout</b> formal value parameters of functions	Clause 5.4.2	m	y
26	NegSem_050402_actual_parameters_026	verify that template parameters cannot be used as <b>inout</b> formal value parameters of functions	Clause 5.4.2	m	y
27	NegSem_050402_actual_parameters_027	verify that template variables cannot be used as <b>inout</b> formal value parameters of functions	Clause 5.4.2	m	y
28	NegSem_050402_actual_parameters_028	verify that template <b>in</b> parameters cannot be used as <b>inout</b> formal value parameters of functions	Clause 5.4.2	m	y
29	NegSem_050402_actual_parameters_029	verify that template <b>out</b> parameters cannot be used as <b>inout</b> formal value parameters of functions	Clause 5.4.2	m	y
30	NegSem_050402_actual_parameters_030	verify that template <b>inout</b> parameters cannot be used as <b>inout</b> formal value parameters of functions	Clause 5.4.2	m	y
31	NegSem_050402_actual_parameters_031	verify that template variable element reference cannot be used as <b>inout</b> formal value parameters of functions	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
32	NegSem_050402_actual_parameters_032	verify that reference to elements of formal value parameters cannot be used as <b>inout</b> formal value parameters of functions	Clause 5.4.2	m	y
33	NegSem_050402_actual_parameters_033	verify that literals cannot be used as <b>inout</b> formal value parameters of altsteps	Clause 5.4.2	m	y
34	NegSem_050402_actual_parameters_034	verify that module parameters cannot be used as <b>inout</b> formal value parameters of altsteps	Clause 5.4.2	m	y
35	NegSem_050402_actual_parameters_035	verify that constants cannot be used as <b>inout</b> formal value parameters of altsteps	Clause 5.4.2	m	y
36	NegSem_050402_actual_parameters_036	verify that function calls cannot be used as <b>inout</b> formal value parameters of altsteps	Clause 5.4.2	m	y
37	NegSem_050402_actual_parameters_037	verify that expressions cannot be used as <b>inout</b> formal value parameters of altsteps	Clause 5.4.2	m	y
38	NegSem_050402_actual_parameters_038	verify that template parameters cannot be used as <b>inout</b> formal value parameters of altsteps	Clause 5.4.2	m	y
39	NegSem_050402_actual_parameters_039	verify that template variables cannot be used as <b>inout</b> formal value parameters of altsteps	Clause 5.4.2	m	y
40	NegSem_050402_actual_parameters_040	verify that template <b>in</b> parameters cannot be used as <b>inout</b> formal value parameters of altsteps	Clause 5.4.2	m	y
41	NegSem_050402_actual_parameters_041	verify that template out parameters cannot be used as <b>inout</b> formal value parameters of altsteps	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
42	NegSem_050402_actual_parameters_042	verify that template <b>inout</b> parameters cannot be used as <b>inout</b> formal value parameters of altsteps	Clause 5.4.2	m	y
43	NegSem_050402_actual_parameters_043	verify that template variable element reference cannot be used as <b>inout</b> formal value parameters of altsteps	Clause 5.4.2	m	y
44	NegSem_050402_actual_parameters_044	verify that reference to elements of formal value parameters cannot be used as <b>inout</b> formal value parameters of altsteps	Clause 5.4.2	m	y
45	NegSem_050402_actual_parameters_045	verify that literals cannot be used as <b>inout</b> formal value parameters of test cases	Clause 5.4.2	m	y
46	NegSem_050402_actual_parameters_046	verify that module parameters cannot be used as <b>inout</b> formal value parameters of test cases	Clause 5.4.2	m	y
47	NegSem_050402_actual_parameters_047	verify that constants cannot be used as <b>inout</b> formal value parameters of test cases	Clause 5.4.2	m	y
48	NegSem_050402_actual_parameters_048	verify that function calls cannot be used as <b>inout</b> formal value parameters of test cases	Clause 5.4.2	m	y
49	NegSem_050402_actual_parameters_049	verify that expressions cannot be used as <b>inout</b> formal value parameters of test cases	Clause 5.4.2	m	y
50	NegSem_050402_actual_parameters_050	verify that template parameters cannot be used as <b>inout</b> formal value parameters of test cases	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
51	NegSem_050402_actual_parameters_051	verify that template variables cannot be used as <b>inout</b> formal value parameters of test cases	Clause 5.4.2	m	y
52	NegSem_050402_actual_parameters_052	verify that template <b>in</b> parameters cannot be used as <b>inout</b> formal value parameters of test cases	Clause 5.4.2	m	y
53	NegSem_050402_actual_parameters_053	verify that template <b>out</b> parameters cannot be used as <b>inout</b> formal value parameters of test cases	Clause 5.4.2	m	y
54	NegSem_050402_actual_parameters_054	verify that template <b>inout</b> parameters cannot be used as <b>inout</b> formal value parameters of test cases	Clause 5.4.2	m	y
55	NegSem_050402_actual_parameters_055	verify that template variable element reference cannot be used as <b>inout</b> formal value parameters of test cases	Clause 5.4.2	m	y
56	NegSem_050402_actual_parameters_056	verify that reference to elements of formal value parameters cannot be used as <b>inout</b> formal value parameters of test cases	Clause 5.4.2	m	y
57	NegSem_050402_actual_parameters_057	verify that literals cannot be used as out formal template parameters of functions	Clause 5.4.2	m	y
58	NegSem_050402_actual_parameters_058	verify that module parameters cannot be used as out formal template parameters of functions	Clause 5.4.2	m	y
59	NegSem_050402_actual_parameters_059	verify that constants cannot be used as out formal template parameters of functions	Clause 5.4.2	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
60	NegSem_050402_actual_parameters_060	verify that function calls cannot be used as out formal template parameters of functions	Clause 5.4.2	m	y
61	NegSem_050402_actual_parameters_061	verify that expressions cannot be used as out formal template parameters of functions	Clause 5.4.2	m	y
62	NegSem_050402_actual_parameters_062	verify that template parameters cannot be used as out formal template parameters of functions	Clause 5.4.2	m	y
63	NegSem_050402_actual_parameters_063	verify that literals cannot be used as out formal template parameters of altsteps	Clause 5.4.2	m	y
64	NegSem_050402_actual_parameters_064	verify that module parameters cannot be used as out formal template parameters of altsteps	Clause 5.4.2	m	y
65	NegSem_050402_actual_parameters_065	verify that constants cannot be used as out formal template parameters of altsteps	Clause 5.4.2	m	y
66	NegSem_050402_actual_parameters_066	verify that function calls cannot be used as out formal template parameters of altsteps	Clause 5.4.2	m	y
67	NegSem_050402_actual_parameters_067	verify that expressions cannot be used as out formal template parameters of altsteps	Clause 5.4.2	m	y
68	NegSem_050402_actual_parameters_068	verify that template parameters cannot be used as out formal template parameters of altsteps	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
69	NegSem_050402_actual_parameters_069	verify that literals cannot be used as out formal template parameters of test cases	Clause 5.4.2	m	y
70	NegSem_050402_actual_parameters_070	verify that module parameters cannot be used as out formal template parameters of test cases	Clause 5.4.2	m	y
71	NegSem_050402_actual_parameters_071	verify that constants cannot be used as out formal template parameters of test cases	Clause 5.4.2	m	y
72	NegSem_050402_actual_parameters_072	verify that function calls cannot be used as out formal template parameters of test cases	Clause 5.4.2	m	y
73	NegSem_050402_actual_parameters_073	verify that expressions cannot be used as out formal template parameters of test cases	Clause 5.4.2	m	y
74	NegSem_050402_actual_parameters_074	verify that template parameters cannot be used as out formal template parameters of test cases	Clause 5.4.2	m	y
75	NegSem_050402_actual_parameters_075	verify that literals cannot be used as <b>inout</b> formal template parameters of functions	Clause 5.4.2	m	y
76	NegSem_050402_actual_parameters_076	verify that module parameters cannot be used as <b>inout</b> formal template parameters of functions	Clause 5.4.2	m	y
77	NegSem_050402_actual_parameters_077	verify that constants cannot be used as <b>inout</b> formal template parameters of functions	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
78	NegSem_050402_actual_parameters_078	verify that function calls cannot be used as <b>inout</b> formal template parameters of functions	Clause 5.4.2	m	y
79	NegSem_050402_actual_parameters_079	verify that expressions cannot be used as <b>inout</b> formal template parameters of functions	Clause 5.4.2	m	y
80	NegSem_050402_actual_parameters_080	verify that template parameters cannot be used as <b>inout</b> formal template parameters of functions	Clause 5.4.2	m	y
81	NegSem_050402_actual_parameters_081	verify that literals cannot be used as <b>inout</b> formal template parameters of altsteps	Clause 5.4.2	m	y
82	NegSem_050402_actual_parameters_082	verify that module parameters cannot be used as <b>inout</b> formal template parameters of altsteps	Clause 5.4.2	m	y
83	NegSem_050402_actual_parameters_083	verify that constants cannot be used as <b>inout</b> formal template parameters of altsteps	Clause 5.4.2	m	y
84	NegSem_050402_actual_parameters_084	verify that function calls cannot be used as <b>inout</b> formal template parameters of altsteps	Clause 5.4.2	m	y
85	NegSem_050402_actual_parameters_085	verify that expressions cannot be used as <b>inout</b> formal template parameters of altsteps	Clause 5.4.2	m	y
86	NegSem_050402_actual_parameters_086	verify that template parameters cannot be used as <b>inout</b> formal template parameters of altsteps	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
87	NegSem_050402_actual_parameters_087	verify that literals cannot be used as <b>inout</b> formal template parameters of test cases	Clause 5.4.2	m	y
88	NegSem_050402_actual_parameters_088	verify that module parameters cannot be used as <b>inout</b> formal template parameters of test cases	Clause 5.4.2	m	y
89	NegSem_050402_actual_parameters_089	verify that constants cannot be used as <b>inout</b> formal template parameters of test cases	Clause 5.4.2	m	y
90	NegSem_050402_actual_parameters_090	verify that function calls cannot be used as <b>inout</b> formal template parameters of test cases	Clause 5.4.2	m	y
91	NegSem_050402_actual_parameters_091	verify that expressions cannot be used as <b>inout</b> formal template parameters of test cases	Clause 5.4.2	m	y
92	NegSem_050402_actual_parameters_092	verify that template parameters cannot be used as <b>inout</b> formal template parameters of test cases	Clause 5.4.2	m	y
93	NegSem_050402_actual_parameters_093	verify that referencing errors are detected in actual parameters passed to <b>in</b> formal value parameters	Clause 5.4.2	m	y
94	NegSem_050402_actual_parameters_094	verify that referencing errors are detected in actual parameters passed to <b>in</b> formal template parameters	Clause 5.4.2	m	y
95	NegSem_050402_actual_parameters_095	verify that referencing errors are detected in actual parameters passed to <b>out</b> formal template parameters	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
96	NegSem_050402_actual_parameters_096	verify that referencing rules are correctly applied to actual parameters of <b>inout</b> formal template parameters	Clause 5.4.2	m	y
97	NegSem_050402_actual_parameters_097	verify that string item references cannot be used as <b>inout</b> formal value parameters of functions	Clause 5.4.2	m	y
98	NegSem_050402_actual_parameters_098	verify that ordinary values cannot be passed to timer parameters	Clause 5.4.2	m	y
99	NegSem_050402_actual_parameters_099	verify that values cannot be passed to port parameters	Clause 5.4.2	m	y
100	NegSem_050402_actual_parameters_100	verify that list notation containing actual parameters in wrong order is not accepted	Clause 5.4.2	m	y
101	NegSem_050402_actual_parameters_101	verify that list notation containing less actual parameters than required is not accepted	Clause 5.4.2	m	y
102	NegSem_050402_actual_parameters_102	verify that parameter without default value cannot be skipped	Clause 5.4.2	m	y
103	NegSem_050402_actual_parameters_103	verify that mixing list and assignment notation is not allowed in parameterized calls (value as actual parameter)	Clause 5.4.2	m	y
104	NegSem_050402_actual_parameters_104	verify that mixing list and assignment notation is not allowed in parameterized calls (skipped actual parameter)	Clause 5.4.2	m	y
105	NegSem_050402_actual_parameters_105	verify that parameters cannot be assigned more than once in assignment notation	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
106	NegSem_050402_actual_parameters_106	verify that assignment notation that doesn't contain all parameters is not accepted	Clause 5.4.2	m	y
107	NegSem_050402_actual_parameters_107	verify that incompatible values cannot be passed to in formal parameters	Clause 5.4.2	m	y
108	NegSem_050402_actual_parameters_108	verify that incompatible values cannot be passed from out formal parameters	Clause 5.4.2	m	y
109	NegSem_050402_actual_parameters_109	verify that incompatible values cannot be passed to <b>inout</b> formal parameters	Clause 5.4.2	m	y
110	NegSem_050402_actual_parameters_110	verify that values of compatible but distinct types cannot be passed to <b>inout</b> formal parameters	Clause 5.4.2	m	n
111	NegSem_050402_actual_parameters_111	verify that incompatible templates cannot be passed to template parameters with omit restriction	Clause 5.4.2	m	y
112	NegSem_050402_actual_parameters_112	verify that compatible templates can be passed to template parameters with value restriction	Clause 5.4.2	m	y
113	NegSem_050402_actual_parameters_113	verify that compatible templates can be passed to template parameters with present restriction	Clause 5.4.2	m	y
114	NegSem_050402_actual_parameters_114	verify that parametrized entities used as actual parameter cannot be passed without parameter list	Clause 5.4.2	m	y
115	NegSem_050402_actual_parameters_115	verify that error is generated when no actual parameter list is used for functions with no parameters	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
116	NegSem_050402_actual_parameters_116	verify that error is generated when no actual parameter list is used for test cases with no parameters	Clause 5.4.2	m	y
117	NegSem_050402_actual_parameters_117	verify that error is generated when no actual parameter list is used for altsteps with no parameters	Clause 5.4.2	m	y
118	NegSem_050402_actual_parameters_118	verify that error is generated when empty actual parameter list is used for templates with no parameters	Clause 5.4.2	m	y
119	NegSem_050402_actual_parameters_119	verify that uninitialized values cannot be passed to in formal parameters	Clause 5.4.2	m	n
120	NegSem_050402_actual_parameters_120	verify that uninitialized values cannot be passed to inout formal parameters	Clause 5.4.2	m	n
121	NegSem_050402_actual_parameters_121	verify that function calls passed to lazy formal parameters cannot contain inout parameters	Clause 5.4.2	m	n
122	NegSem_050402_actual_parameters_122	verify that function calls passed to fuzzy formal parameters cannot contain inout parameters	Clause 5.4.2	m	n
123	NegSem_050402_actual_parameters_123	verify that function calls passed to lazy formal parameters cannot contain out parameters	Clause 5.4.2	m	n
124	NegSem_050402_actual_parameters_124	verify that function calls passed to fuzzy formal parameters cannot contain out parameters	Clause 5.4.2	m	n
125	NegSem_050402_actual_parameters_125	verify that error is generated when lazy variable is passed to inout formal parameter	Clause 5.4.2	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
126	NegSem_050402_actual_parameters_126	verify that error is generated when fuzzy variable is passed to <b>inout</b> formal parameter	Clause 5.4.2	m	n
127	NegSem_050402_actual_parameters_127	verify that error is generated when lazy variable is passed to out formal parameter	Clause 5.4.2	m	n
128	NegSem_050402_actual_parameters_128	verify that error is generated when fuzzy variable is passed to out formal parameter	Clause 5.4.2	m	n
129	NegSem_050402_actual_parameters_129	verify that error is generated when passing record and its field to <b>inout</b> parameters	Clause 5.4.2	m	n
130	NegSem_050402_actual_parameters_130	verify that error is generated when passing set and its field to <b>inout</b> parameters	Clause 5.4.2	m	n
131	NegSem_050402_actual_parameters_131	verify that error is generated when passing union and its element to <b>inout</b> parameters	Clause 5.4.2	m	n
132	NegSem_050402_actual_parameters_132	verify that error is generated when passing record of and its element to <b>inout</b> parameters	Clause 5.4.2	m	n
133	NegSem_050402_actual_parameters_133	verify that error is generated when passing set of and its element to <b>inout</b> parameters	Clause 5.4.2	m	n
134	NegSem_050402_actual_parameters_134	verify that error is generated when passing array and its element to <b>inout</b> parameters	Clause 5.4.2	m	n
135	NegSem_050402_actual_parameters_135	verify that error is generated when passing anytype value and its element to <b>inout</b> parameters	Clause 5.4.2	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
136	NegSem_050402_actual_parameters_136	verify that error is generated when passing record and its sub-elements to <b>inout</b> parameters	Clause 5.4.2	m	n
137	NegSem_050402_actual_parameters_137	verify that error is generated when passing set and its sub-field to <b>inout</b> parameters	Clause 5.4.2	m	n
138	NegSem_050402_actual_parameters_138	verify that error is generated when passing union and its sub-element to <b>inout</b> parameters	Clause 5.4.2	m	n
139	NegSem_050402_actual_parameters_139	verify that error is generated when passing record of and its sub-element to <b>inout</b> parameters	Clause 5.4.2	m	n
140	NegSem_050402_actual_parameters_140	verify that error is generated when passing set of and its sub-element to <b>inout</b> parameters	Clause 5.4.2	m	n
141	NegSem_050402_actual_parameters_141	verify that error is generated when passing array and its sub-element to <b>inout</b> parameters	Clause 5.4.2	m	n
142	NegSem_050402_actual_parameters_142	verify that error is generated when passing anytype value and its sub-element to <b>inout</b> parameters	Clause 5.4.2	m	n
143	NegSem_050402_actual_parameters_143	verify that error is generated when passing distinct union alternatives to <b>inout</b> parameters	Clause 5.4.2	m	n
144	NegSem_050402_actual_parameters_144	verify that error is generated when passing distinct union alternatives to <b>inout</b> parameters	Clause 5.4.2	m	n

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
145	NegSem_050402_actual_parameters_145	verify that the fourth part of the Example 3 produces the expected error	Clause 5.4.2	m	n
146	NegSem_050402_actual_parameters_146	verify that literal cannot be used as actual out value parameters of functions	Clause 5.4.2	m	y
147	NegSem_050402_actual_parameters_147	verify that expression cannot be used as actual out value parameters of functions	Clause 5.4.2	m	y
148	NegSem_050402_actual_parameters_148	verify that function calls cannot be used as actual out value parameters of functions	Clause 5.4.2	m	y
149	NegSem_050402_actual_parameters_149	verify that module parameters cannot be used as actual out value parameters of functions	Clause 5.4.2	m	y
150	NegSem_050402_actual_parameters_150	verify that templates cannot be used as actual out value parameters of functions	Clause 5.4.2	m	y
151	NegSem_050402_actual_parameters_151	verify that constants cannot be used as actual out value parameters of functions	Clause 5.4.2	m	y
152	NegSem_050402_actual_parameters_152	verify that literal cannot be used as actual out value parameters of altsteps	Clause 5.4.2	m	y
153	NegSem_050402_actual_parameters_153	verify that expression cannot be used as actual out value parameters of altsteps	Clause 5.4.2	m	y
154	NegSem_050402_actual_parameters_154	verify that function calls cannot be used as actual out value parameters of altsteps	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
155	NegSem_050402_actual_parameters_155	verify that module parameters cannot be used as actual out value parameters of altsteps	Clause 5.4.2	m	y
156	NegSem_050402_actual_parameters_156	verify that templates cannot be used as actual out value parameters of altsteps	Clause 5.4.2	m	y
157	NegSem_050402_actual_parameters_157	verify that constants cannot be used as actual out value parameters of altsteps	Clause 5.4.2	m	y
158	NegSem_050402_actual_parameters_158	verify that function cannot have more actual than formal parameters	Clause 5.4.2	m	y
159	NegSem_050402_actual_parameters_159	verify that templates cannot have more actual than formal parameters	Clause 5.4.2	m	y
160	NegSem_050402_actual_parameters_160	verify that altstep cannot have more actual than formal parameters	Clause 5.4.2	m	y
161	NegSem_050402_actual_parameters_161	verify that function testcase cannot have more actual than formal parameters	Clause 5.4.2	m	y
162	NegSem_050402_actual_parameters_162	verify that restricted template variables cannot be passed to unrestricted <b>inout</b> template parameters	Clause 5.4.2	m	n
163	NegSem_050402_actual_parameters_163	verify that unrestricted template variables cannot be passed to restricted <b>inout</b> template parameters	Clause 5.4.2	m	n
164	NegSem_050402_actual_parameters_164	verify that restricted template variables cannot be passed to <b>inout</b> template parameters with a different restriction	Clause 5.4.2	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
165	NegSem_050402_actual_parameters_165	verify that value variables cannot be used as out formal template parameters of functions	Clause 5.4.2	m	y
166	NegSem_050402_actual_parameters_166	verify that value <b>in</b> parameters cannot be used as out formal template parameters of functions	Clause 5.4.2	m	y
167	NegSem_050402_actual_parameters_167	verify that value <b>out</b> parameters cannot be used as out formal template parameters of functions	Clause 5.4.2	m	y
168	NegSem_050402_actual_parameters_168	verify that value <b>inout</b> parameters cannot be used as out formal template parameters of functions	Clause 5.4.2	m	y
169	NegSem_050402_actual_parameters_169	verify that value variable element reference cannot be used as out formal template parameters of functions	Clause 5.4.2	m	y
170	NegSem_050402_actual_parameters_170	verify that reference to elements of formal value parameters cannot be used as out formal template parameters of functions	Clause 5.4.2	m	y
171	NegSem_050402_actual_parameters_171	verify that value variables cannot be used as out formal template parameters of altsteps	Clause 5.4.2	m	y
172	NegSem_050402_actual_parameters_172	verify that value <b>in</b> parameters cannot be used as out formal template parameters of altsteps	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
173	NegSem_050402_actual_parameters_173	verify that value <b>out</b> parameters cannot be used as out formal template parameters of altsteps	Clause 5.4.2	m	y
174	NegSem_050402_actual_parameters_174	verify that value <b>inout</b> parameters cannot be used as out formal template parameters of altsteps	Clause 5.4.2	m	y
175	NegSem_050402_actual_parameters_175	verify that value variable element reference cannot be used as out formal template parameters of altsteps	Clause 5.4.2	m	y
176	NegSem_050402_actual_parameters_176	verify that reference to elements of formal value parameters cannot be used as out formal template parameters of altsteps	Clause 5.4.2	m	y
177	NegSem_050402_actual_parameters_177	verify that value variables cannot be used as out formal template parameters of test cases	Clause 5.4.2	m	y
178	NegSem_050402_actual_parameters_178	verify that value <b>in</b> parameters cannot be used as out formal template parameters of test cases	Clause 5.4.2	m	y
179	NegSem_050402_actual_parameters_179	verify that value <b>in</b> parameters cannot be used as out formal template parameters of test cases	Clause 5.4.2	m	y
180	NegSem_050402_actual_parameters_180	verify that value <b>in</b> parameters cannot be used as out formal template parameters of test cases	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
181	NegSem_050402_actual_parameters_181	verify that value <b>in</b> parameters cannot be used as out formal template parameters of test cases	Clause 5.4.2	m	y
182	NegSem_050402_actual_parameters_182	verify that value <b>in</b> parameters cannot be used as out formal template parameters of test cases	Clause 5.4.2	m	y
183	Sem_050402_actual_parameters_001	The IUT accepts allowed assignments of actual parameters.	Clause 5.4.2	m	y
184	Sem_050402_actual_parameters_002	The IUT accepts nested assignment of actual parameters.	Clause 5.4.2	m	y
185	Sem_050402_actual_parameters_003	verify that literals can be used as <b>in</b> formal value parameters of functions	Clause 5.4.2	m	y
186	Sem_050402_actual_parameters_004	verify that module parameters can be used as <b>in</b> formal value parameters of functions	Clause 5.4.2	m	y
187	Sem_050402_actual_parameters_005	verify that constants can be used as <b>in</b> formal value parameters of functions	Clause 5.4.2	m	y
188	Sem_050402_actual_parameters_006	verify that variables can be used as <b>in</b> formal value parameters of functions	Clause 5.4.2	m	y
189	Sem_050402_actual_parameters_007	verify that function calls can be used as <b>in</b> formal value parameters of functions	Clause 5.4.2	m	y
190	Sem_050402_actual_parameters_008	verify that in value parameters can be used as <b>in</b> formal value parameters of functions	Clause 5.4.2	m	y
191	Sem_050402_actual_parameters_009	verify that out value parameters can be used as <b>in</b> formal value parameters of functions	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
192	Sem_050402_actual_parameters_010	verify that inout value parameters can be used as in formal value parameters of functions	Clause 5.4.2	m	y
193	Sem_050402_actual_parameters_011	verify that expressions can be used as in formal value parameters of functions	Clause 5.4.2	m	y
194	Sem_050402_actual_parameters_012	verify that literals can be used as in formal value parameters of templates	Clause 5.4.2	m	y
195	Sem_050402_actual_parameters_013	verify that module parameters can be used as in formal value parameters of templates	Clause 5.4.2	m	y
196	Sem_050402_actual_parameters_014	verify that constants can be used as in formal value parameters of templates	Clause 5.4.2	m	y
197	Sem_050402_actual_parameters_015	verify that variables can be used as in formal value parameters of templates	Clause 5.4.2	m	y
198	Sem_050402_actual_parameters_016	verify that function calls can be used as in formal value parameters of templates	Clause 5.4.2	m	y
199	Sem_050402_actual_parameters_017	verify that in value parameters can be used as in formal value parameters of templates	Clause 5.4.2	m	y
200	Sem_050402_actual_parameters_018	verify that out value parameters can be used as in formal value parameters of templates	Clause 5.4.2	m	y
201	Sem_050402_actual_parameters_019	verify that inout value parameters can be used as in formal value parameters of templates	Clause 5.4.2	m	y
202	Sem_050402_actual_parameters_020	verify that expressions can be used as in formal value parameters of templates	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
203	Sem_050402_actual_parameters_021	verify that literals can be used as <b>in</b> formal value parameters of altsteps	Clause 5.4.2	m	y
204	Sem_050402_actual_parameters_022	verify that module parameters can be used as <b>in</b> formal value parameters of altsteps	Clause 5.4.2	m	y
205	Sem_050402_actual_parameters_023	verify that constants can be used as <b>in</b> formal value parameters of altsteps	Clause 5.4.2	m	y
206	Sem_050402_actual_parameters_024	verify that variables can be used as <b>in</b> formal value parameters of altsteps	Clause 5.4.2	m	y
207	Sem_050402_actual_parameters_025	verify that function calls can be used as <b>in</b> formal value parameters of altsteps	Clause 5.4.2	m	y
208	Sem_050402_actual_parameters_026	verify that <b>in</b> value parameters can be used as <b>in</b> formal value parameters of altsteps	Clause 5.4.2	m	y
209	Sem_050402_actual_parameters_027	verify that out value parameters can be used as <b>in</b> formal value parameters of altsteps	Clause 5.4.2	m	y
210	Sem_050402_actual_parameters_028	verify that <b>inout</b> value parameters can be used as <b>in</b> formal value parameters of altsteps	Clause 5.4.2	m	y
211	Sem_050402_actual_parameters_029	verify that expressions can be used as <b>in</b> formal value parameters of altsteps	Clause 5.4.2	m	y
212	Sem_050402_actual_parameters_030	verify that literals can be used as <b>in</b> formal value parameters of test cases	Clause 5.4.2	m	y
213	Sem_050402_actual_parameters_031	verify that module parameters can be used as <b>in</b> formal value parameters of test cases	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
214	Sem_050402_actual_parameters_032	verify that constants can be used as <b>in</b> formal value parameters of test cases	Clause 5.4.2	m	y
215	Sem_050402_actual_parameters_033	verify that variables can be used as <b>in</b> formal value parameters of test cases	Clause 5.4.2	m	y
216	Sem_050402_actual_parameters_034	verify that function calls can be used as <b>in</b> formal value parameters of test cases	Clause 5.4.2	m	y
217	Sem_050402_actual_parameters_035	verify that <b>in</b> value parameters can be used as <b>in</b> formal value parameters of test cases	Clause 5.4.2	m	y
218	Sem_050402_actual_parameters_036	verify that <b>out</b> value parameters can be used as <b>in</b> formal value parameters of test cases	Clause 5.4.2	m	y
219	Sem_050402_actual_parameters_037	verify that <b>inout</b> value parameters can be used as <b>in</b> formal value parameters of test cases	Clause 5.4.2	m	y
220	Sem_050402_actual_parameters_038	verify that expressions can be used as <b>in</b> formal value parameters of test cases	Clause 5.4.2	m	y
221	Sem_050402_actual_parameters_039	verify that variables can be used as <b>inout</b> formal value parameters of functions	Clause 5.4.2	m	y
222	Sem_050402_actual_parameters_040	verify that <b>in</b> value parameters can be used as <b>inout</b> formal value parameters of functions	Clause 5.4.2	m	y
223	Sem_050402_actual_parameters_041	verify that <b>out</b> value parameters can be used as <b>inout</b> formal value parameters of functions	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
224	Sem_050402_actual_parameters_042	verify that <b>inout</b> value parameters can be used as <b>inout</b> formal value parameters of functions	Clause 5.4.2	m	y
225	Sem_050402_actual_parameters_043	verify that variable element reference can be used as <b>inout</b> formal value parameters of functions	Clause 5.4.2	m	y
226	Sem_050402_actual_parameters_044	verify that reference to elements of formal value parameters can be used as <b>inout</b> formal value parameters of functions	Clause 5.4.2	m	y
227	Sem_050402_actual_parameters_045	verify that variables can be used as <b>inout</b> formal value parameters of altsteps	Clause 5.4.2	m	y
228	Sem_050402_actual_parameters_046	verify that <b>in</b> value parameters can be used as <b>inout</b> formal value parameters of altsteps	Clause 5.4.2	m	y
229	Sem_050402_actual_parameters_047	verify that <b>out</b> value parameters can be used as <b>inout</b> formal value parameters of altsteps	Clause 5.4.2	m	y
230	Sem_050402_actual_parameters_048	verify that <b>inout</b> value parameters can be used as <b>inout</b> formal value parameters of altsteps	Clause 5.4.2	m	y
231	Sem_050402_actual_parameters_049	verify that variable element reference can be used as <b>inout</b> formal value parameters of altsteps	Clause 5.4.2	m	y
232	Sem_050402_actual_parameters_050	verify that reference to elements of formal value parameters can be used as <b>inout</b> formal value parameters of altsteps	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
233	Sem_050402_actual_parameters_051	verify that variables can be used as <b>inout</b> formal value parameters of test cases	Clause 5.4.2	m	y
234	Sem_050402_actual_parameters_052	verify that <b>in</b> value parameters can be used as <b>inout</b> formal value parameters of test cases	Clause 5.4.2	m	y
235	Sem_050402_actual_parameters_053	verify that <b>out</b> value parameters can be used as <b>inout</b> formal value parameters of test cases	Clause 5.4.2	m	y
236	Sem_050402_actual_parameters_054	verify that <b>inout</b> value parameters can be used as <b>inout</b> formal value parameters of test cases	Clause 5.4.2	m	y
237	Sem_050402_actual_parameters_055	verify that variable element reference can be used as <b>inout</b> formal value parameters of test cases	Clause 5.4.2	m	y
238	Sem_050402_actual_parameters_056	verify that reference to elements of formal value parameters can be used as <b>inout</b> formal value parameters of test cases	Clause 5.4.2	m	y
239	Sem_050402_actual_parameters_057	verify that literals can be used as in formal template parameters of functions	Clause 5.4.2	m	y
240	Sem_050402_actual_parameters_058	verify that module parameters can be used as in formal template parameters of functions	Clause 5.4.2	m	y
241	Sem_050402_actual_parameters_059	verify that constants can be used as in formal template parameters of functions	Clause 5.4.2	m	y
242	Sem_050402_actual_parameters_060	verify that variables can be used as in formal template parameters of functions	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
243	Sem_050402_actual_parameters_061	verify that function calls can be used as in formal template parameters of functions	Clause 5.4.2	m	y
244	Sem_050402_actual_parameters_062	verify that <b>in</b> value parameters can be used as in formal template parameters of functions	Clause 5.4.2	m	y
245	Sem_050402_actual_parameters_063	verify that <b>out</b> value parameters can be used as in formal template parameters of functions	Clause 5.4.2	m	y
246	Sem_050402_actual_parameters_064	verify that <b>inout</b> value parameters can be used as in formal template parameters of functions	Clause 5.4.2	m	y
247	Sem_050402_actual_parameters_065	verify that expressions can be used as in formal template parameters of functions	Clause 5.4.2	m	y
248	Sem_050402_actual_parameters_066	verify that template parameters can be used as in formal template parameters of functions	Clause 5.4.2	m	y
249	Sem_050402_actual_parameters_067	verify that template variables can be used as in formal template parameters of functions	Clause 5.4.2	m	y
250	Sem_050402_actual_parameters_068	verify that template <b>in</b> parameters can be used as in formal template parameters of functions	Clause 5.4.2	m	y
251	Sem_050402_actual_parameters_069	verify that template <b>out</b> parameters can be used as in formal template parameters of functions	Clause 5.4.2	m	y
252	Sem_050402_actual_parameters_070	verify that template <b>inout</b> parameters can be used as in formal template parameters of functions	Clause 5.4.2	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
253	Sem_050402_actual_parameters_071	verify that literals can be used as in formal template parameters of templates	Clause 5.4.2	m	y
254	Sem_050402_actual_parameters_072	verify that module parameters can be used as in formal template parameters of templates	Clause 5.4.2	m	y
255	Sem_050402_actual_parameters_073	verify that constants can be used as in formal template parameters of templates	Clause 5.4.2	m	y
256	Sem_050402_actual_parameters_074	verify that variables can be used as in formal template parameters of templates	Clause 5.4.2	m	y
257	Sem_050402_actual_parameters_075	verify that function calls can be used as in formal template parameters of templates	Clause 5.4.2	m	y
258	Sem_050402_actual_parameters_076	verify that <b>in</b> value parameters can be used as in formal template parameters of templates	Clause 5.4.2	m	y
259	Sem_050402_actual_parameters_077	verify that <b>out</b> value parameters can be used as in formal template parameters of templates	Clause 5.4.2	m	y
260	Sem_050402_actual_parameters_078	verify that <b>inout</b> value parameters can be used as in formal template parameters of templates	Clause 5.4.2	m	y
261	Sem_050402_actual_parameters_079	verify that expressions can be used as in formal template parameters of templates	Clause 5.4.2	m	y
262	Sem_050402_actual_parameters_080	verify that template parameters can be used as in formal template parameters of templates	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
263	Sem_050402_actual_parameters_081	verify that template variables can be used as in formal template parameters of templates	Clause 5.4.2	m	y
264	Sem_050402_actual_parameters_082	verify that template <b>in</b> parameters can be used as in formal template parameters of templates	Clause 5.4.2	m	y
265	Sem_050402_actual_parameters_083	verify that template <b>out</b> parameters can be used as in formal template parameters of templates	Clause 5.4.2	m	y
266	Sem_050402_actual_parameters_084	verify that template <b>inout</b> parameters can be used as in formal template parameters of templates	Clause 5.4.2	m	y
267	Sem_050402_actual_parameters_085	verify that literals can be used as in formal template parameters of altsteps	Clause 5.4.2	m	y
268	Sem_050402_actual_parameters_086	verify that module parameters can be used as in formal template parameters of altsteps	Clause 5.4.2	m	y
269	Sem_050402_actual_parameters_087	verify that constants can be used as in formal template parameters of altsteps	Clause 5.4.2	m	y
270	Sem_050402_actual_parameters_088	verify that variables can be used as in formal template parameters of altsteps	Clause 5.4.2	m	y
271	Sem_050402_actual_parameters_089	verify that function calls can be used as in formal template parameters of altsteps	Clause 5.4.2	m	y
272	Sem_050402_actual_parameters_090	verify that <b>in</b> value parameters can be used as in formal template parameters of altsteps	Clause 5.4.2	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
273	Sem_050402_actual_parameters_091	verify that <b>out</b> value parameters can be used as in formal template parameters of altsteps	Clause 5.4.2	m	y
274	Sem_050402_actual_parameters_092	verify that <b>inout</b> value parameters can be used as in formal template parameters of altsteps	Clause 5.4.2	m	y
275	Sem_050402_actual_parameters_093	verify that expressions can be used as in formal template parameters of altsteps	Clause 5.4.2	m	y
276	Sem_050402_actual_parameters_094	verify that template parameters can be used as in formal template parameters of altsteps	Clause 5.4.2	m	y
277	Sem_050402_actual_parameters_095	verify that template variables can be used as in formal template parameters of altsteps	Clause 5.4.2	m	y
278	Sem_050402_actual_parameters_096	verify that template <b>in</b> parameters can be used as in formal template parameters of altsteps	Clause 5.4.2	m	y
279	Sem_050402_actual_parameters_097	verify that template <b>out</b> parameters can be used as in formal template parameters of altsteps	Clause 5.4.2	m	y
280	Sem_050402_actual_parameters_098	verify that template <b>inout</b> parameters can be used as in formal template parameters of altsteps	Clause 5.4.2	m	y
281	Sem_050402_actual_parameters_099	verify that literals can be used as in formal template parameters of test cases	Clause 5.4.2	m	y
282	Sem_050402_actual_parameters_100	verify that module parameters can be used as in formal template parameters of test cases	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
283	Sem_050402_actual_parameters_101	verify that constants can be used as in formal template parameters of test cases	Clause 5.4.2	m	y
284	Sem_050402_actual_parameters_102	verify that variables can be used as in formal template parameters of test cases	Clause 5.4.2	m	y
285	Sem_050402_actual_parameters_103	verify that function calls can be used as in formal template parameters of test cases	Clause 5.4.2	m	y
286	Sem_050402_actual_parameters_104	verify that <b>in</b> value parameters can be used as in formal template parameters of test cases	Clause 5.4.2	m	y
287	Sem_050402_actual_parameters_105	verify that <b>out</b> value parameters can be used as in formal template parameters of test cases	Clause 5.4.2	m	y
288	Sem_050402_actual_parameters_106	verify that <b>inout</b> value parameters can be used as in formal template parameters of test cases	Clause 5.4.2	m	y
289	Sem_050402_actual_parameters_107	verify that expressions can be used as in formal template parameters of test cases	Clause 5.4.2	m	y
290	Sem_050402_actual_parameters_108	verify that template parameters can be used as in formal template parameters of test cases	Clause 5.4.2	m	y
291	Sem_050402_actual_parameters_109	verify that template variables can be used as in formal template parameters of test cases	Clause 5.4.2	m	y
292	Sem_050402_actual_parameters_110	verify that template <b>in</b> parameters can be used as in formal template parameters of test cases	Clause 5.4.2	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
293	Sem_050402_actual_parameters_111	verify that template <b>out</b> parameters can be used as in formal template parameters of test cases	Clause 5.4.2	m	y
294	Sem_050402_actual_parameters_112	verify that template <b>inout</b> parameters can be used as in formal template parameters of test cases	Clause 5.4.2	m	y
295	Sem_050402_actual_parameters_113	verify that template variables can be used as out formal template parameters of functions	Clause 5.4.2	m	y
296	Sem_050402_actual_parameters_114	verify that template <b>in</b> parameters can be used as out formal template parameters of functions	Clause 5.4.2	m	y
297	Sem_050402_actual_parameters_115	verify that template <b>out</b> parameters can be used as out formal template parameters of functions	Clause 5.4.2	m	y
298	Sem_050402_actual_parameters_116	verify that template <b>inout</b> parameters can be used as out formal template parameters of functions	Clause 5.4.2	m	y
299	Sem_050402_actual_parameters_117	verify that template variable element reference can be used as out formal template parameters of functions	Clause 5.4.2	m	y
300	Sem_050402_actual_parameters_118	verify that reference to elements of formal value parameters can be used as out formal template parameters of functions	Clause 5.4.2	m	y
301	Sem_050402_actual_parameters_119	verify that template variables can be used as out formal template parameters of altsteps	Clause 5.4.2	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
302	Sem_050402_actual_parameters_120	verify that template <b>in</b> parameters can be used as out formal template parameters of altsteps	Clause 5.4.2	m	y
303	Sem_050402_actual_parameters_121	verify that template <b>out</b> parameters can be used as out formal template parameters of altsteps	Clause 5.4.2	m	y
304	Sem_050402_actual_parameters_122	verify that template <b>inout</b> parameters can be used as out formal template parameters of altsteps	Clause 5.4.2	m	y
305	Sem_050402_actual_parameters_123	verify that template variable element reference can be used as out formal template parameters of altsteps	Clause 5.4.2	m	y
306	Sem_050402_actual_parameters_124	verify that reference to elements of formal value parameters can be used as out formal template parameters of altsteps	Clause 5.4.2	m	y
307	Sem_050402_actual_parameters_125	verify that template variables can be used as out formal template parameters of test cases	Clause 5.4.2	m	y
308	Sem_050402_actual_parameters_126	verify that template <b>in</b> parameters can be used as out formal template parameters of test cases	Clause 5.4.2	m	y
309	Sem_050402_actual_parameters_127	verify that template <b>out</b> parameters can be used as out formal template parameters of test cases	Clause 5.4.2	m	y
310	Sem_050402_actual_parameters_128	verify that template <b>inout</b> parameters can be used as out formal template parameters of test cases	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
311	Sem_050402_actual_parameters_129	verify that template variable element reference can be used as out formal template parameters of test cases	Clause 5.4.2	m	y
312	Sem_050402_actual_parameters_130	verify that reference to elements of formal value parameters can be used as out formal template parameters of test cases	Clause 5.4.2	m	y
313	Sem_050402_actual_parameters_131	verify that template variables can be used as <b>inout</b> formal template parameters of functions	Clause 5.4.2	m	y
314	Sem_050402_actual_parameters_132	verify that template <b>in</b> parameters can be used as <b>inout</b> formal template parameters of functions	Clause 5.4.2	m	y
315	Sem_050402_actual_parameters_133	verify that template <b>out</b> parameters can be used as <b>inout</b> formal template parameters of functions	Clause 5.4.2	m	y
316	Sem_050402_actual_parameters_134	verify that template <b>inout</b> parameters can be used as <b>inout</b> formal template parameters of functions	Clause 5.4.2	m	y
317	Sem_050402_actual_parameters_135	verify that template variable element reference can be used as <b>inout</b> formal template parameters of functions	Clause 5.4.2	m	y
318	Sem_050402_actual_parameters_136	verify that reference to elements of formal value parameters can be used as <b>inout</b> formal template parameters of functions	Clause 5.4.2	m	y
319	Sem_050402_actual_parameters_137	verify that template variables can be used as <b>inout</b> formal template parameters of altsteps	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
320	Sem_050402_actual_parameters_138	verify that template <b>in</b> parameters can be used as <b>inout</b> formal template parameters of altsteps	Clause 5.4.2	m	y
321	Sem_050402_actual_parameters_139	verify that template <b>out</b> parameters can be used as <b>inout</b> formal template parameters of altsteps	Clause 5.4.2	m	y
322	Sem_050402_actual_parameters_140	verify that template <b>inout</b> parameters can be used as <b>inout</b> formal template parameters of altsteps	Clause 5.4.2	m	y
323	Sem_050402_actual_parameters_141	verify that template variable element reference can be used as <b>inout</b> formal template parameters of altsteps	Clause 5.4.2	m	y
324	Sem_050402_actual_parameters_142	verify that reference to elements of formal value parameters can be used as <b>inout</b> formal template parameters of altsteps	Clause 5.4.2	m	y
325	Sem_050402_actual_parameters_143	verify that template variables can be used as <b>inout</b> formal template parameters of test cases	Clause 5.4.2	m	y
326	Sem_050402_actual_parameters_144	verify that template <b>in</b> parameters can be used as <b>inout</b> formal template parameters of test cases	Clause 5.4.2	m	y
327	Sem_050402_actual_parameters_145	verify that template <b>out</b> parameters can be used as <b>inout</b> formal template parameters of test cases	Clause 5.4.2	m	y
328	Sem_050402_actual_parameters_146	verify that template <b>inout</b> parameters can be used as <b>inout</b> formal template parameters of test cases	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
329	Sem_050402_actual_parameters_147	verify that template variable element reference can be used as <b>inout</b> formal template parameters of test cases	Clause 5.4.2	m	y
330	Sem_050402_actual_parameters_148	verify that reference to elements of formal value parameters can be used as <b>inout</b> formal template parameters of test cases	Clause 5.4.2	m	y
331	Sem_050402_actual_parameters_149	verify that referencing rules are correctly applied to actual parameters of <b>in</b> formal value parameters	Clause 5.4.2	m	y
332	Sem_050402_actual_parameters_150	verify that referencing rules are correctly applied to actual parameters of <b>in</b> formal template parameters	Clause 5.4.2	m	n
333	Sem_050402_actual_parameters_151	verify that referencing rules are correctly applied to actual parameters of <b>out</b> formal value parameters	Clause 5.4.2	m	y
334	Sem_050402_actual_parameters_152	verify that referencing rules are correctly applied to actual parameters of <b>out</b> formal template parameters	Clause 5.4.2	m	y
335	Sem_050402_actual_parameters_153	verify that referencing rules are correctly applied to actual parameters of <b>inout</b> formal value parameters	Clause 5.4.2	m	y
336	Sem_050402_actual_parameters_154	verify that referencing rules are correctly applied to actual parameters of <b>inout</b> formal template parameters	Clause 5.4.2	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
337	Sem_050402_actual_parameters_155	verify that <b>out</b> formal parameters are passed to actual parameter in correct (list notation)	Clause 5.4.2	m	y
338	Sem_050402_actual_parameters_156	verify that <b>out</b> formal parameters are passed to actual parameter in correct (assignment notation)	Clause 5.4.2	m	n
339	Sem_050402_actual_parameters_157	verify that component timers can be passed to timer parameters	Clause 5.4.2	m	y
340	Sem_050402_actual_parameters_158	verify that component timers can be passed to timer parameters	Clause 5.4.2	m	y
341	Sem_050402_actual_parameters_159	verify that timer parameters can be passed to timer parameters	Clause 5.4.2	m	y
342	Sem_050402_actual_parameters_160	verify that component ports can be passed to port parameters	Clause 5.4.2	m	y
343	Sem_050402_actual_parameters_161	verify that port parameters can be passed to port parameters	Clause 5.4.2	m	y
344	Sem_050402_actual_parameters_162	verify that actual parameters override default values	Clause 5.4.2	m	y
345	Sem_050402_actual_parameters_163	verify that default values are used if actual parameters are missing	Clause 5.4.2	m	y
346	Sem_050402_actual_parameters_164	verify that actual parameters override default templates	Clause 5.4.2	m	y
347	Sem_050402_actual_parameters_165	verify that default templates are used if actual parameters are missing	Clause 5.4.2	m	y
348	Sem_050402_actual_parameters_166	verify that actual parameters are evaluated in order of their appearance (list notation)	Clause 5.4.2	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
349	Sem_050402_actual_parameters_167	verify that actual parameters are evaluated in order of their appearance (assignment notation)	Clause 5.4.2	m	n
350	Sem_050402_actual_parameters_168	verify that rules for referencing are applied to actual parameters before passing to out formal parameters	Clause 5.4.2	m	y
351	Sem_050402_actual_parameters_169	verify that rules for referencing are applied to actual parameters before passing to inout formal parameters	Clause 5.4.2	m	y
352	Sem_050402_actual_parameters_170	verify that default parameters are evaluated in order of the formal parameter list (list notation)	Clause 5.4.2	m	n
353	Sem_050402_actual_parameters_171	verify that default parameters are evaluated in order of the formal parameter list (assignment notation)	Clause 5.4.2	m	n
354	Sem_050402_actual_parameters_172	verify that it is possible to use parametrized template with no parentheses if all parameters have default values	Clause 5.4.2	m	y
355	Sem_050402_actual_parameters_173	verify that it is possible to use parametrized template with empty parentheses	Clause 5.4.2	m	y
356	Sem_050402_actual_parameters_174	verify that actual parameter values override default values	Clause 5.4.2	m	y
357	Sem_050402_actual_parameters_175	verify that actual parameters in the beginning of list notation can be skipped	Clause 5.4.2	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
358	Sem_050402_actual_parameters_176	verify that multiple actual parameters of list notation can be skipped	Clause 5.4.2	m	y
359	Sem_050402_actual_parameters_177	verify that actual parameters at the end of list notation can be explicitly skipped	Clause 5.4.2	m	y
360	Sem_050402_actual_parameters_178	verify that missing actual parameters at the end of list notation are considered to be skipped (single parameter)	Clause 5.4.2	m	y
361	Sem_050402_actual_parameters_179	verify that missing actual parameters at the end of list notation are considered to be skipped (multiple parameter)	Clause 5.4.2	m	y
362	Sem_050402_actual_parameters_180	verify that assignment notation containing all parameters in declaration order is accepted	Clause 5.4.2	m	y
363	Sem_050402_actual_parameters_181	verify that assignment notation containing all parameters in random order is accepted	Clause 5.4.2	m	n
364	Sem_050402_actual_parameters_182	verify that assignment notation can omit parameters with default value	Clause 5.4.2	m	y
365	Sem_050402_actual_parameters_183	verify that compatible values can be passed to in formal parameters	Clause 5.4.2	m	y
366	Sem_050402_actual_parameters_184	verify that compatible values can be passed from out formal parameters	Clause 5.4.2	m	y
367	Sem_050402_actual_parameters_185	verify that compatible templates can be passed to template parameters with omit restriction	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
368	Sem_050402_actual_parameters_186	verify that compatible templates can be passed to template parameters with value restriction	Clause 5.4.2	m	y
369	Sem_050402_actual_parameters_187	verify that compatible templates can be passed to template parameters with present restriction	Clause 5.4.2	m	y
370	Sem_050402_actual_parameters_188	verify that it is possible to use nested actual parameter lists	Clause 5.4.2	m	y
371	Sem_050402_actual_parameters_189	verify that empty actual parameter list can be used for functions with no parameters	Clause 5.4.2	m	y
372	Sem_050402_actual_parameters_190	verify that empty actual parameter list can be used for altsteps with no parameters	Clause 5.4.2	m	y
373	Sem_050402_actual_parameters_191	verify that partially initialized values can be passed to in formal parameters	Clause 5.4.2	m	y
374	Sem_050402_actual_parameters_192	verify that partially initialized values can be passed to inout formal parameters	Clause 5.4.2	m	y
375	Sem_050402_actual_parameters_193	verify that Example 1 can be executed	Clause 5.4.2	m	n
376	Sem_050402_actual_parameters_194	verify that Example 2 can be executed	Clause 5.4.2	m	y
377	Sem_050402_actual_parameters_195	verify that the first part of the Example 3 can be executed	Clause 5.4.2	m	y
378	Sem_050402_actual_parameters_196	verify that the third part of the Example 3 can be executed	Clause 5.4.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
379	Sem_050402_actual_parameters_198	verify that the the Example 4 can be executed	Clause 5.4.2	m	y
380	Sem_050402_actual_parameters_199	verify that the Example 5 can be executed	Clause 5.4.2	m	y
381	Sem_050402_actual_parameters_200	verify that the Example 6 can be executed	Clause 5.4.2	m	y
382	Sem_050402_actual_parameters_201	verify that the Example 7 can be executed	Clause 5.4.2	m	y
383	Sem_050402_actual_parameters_202	verify that the Example 8 can be executed	Clause 5.4.2	m	n
384	Sem_050402_actual_parameters_203	verify that variables can be used as actual out value parameters of functions	Clause 5.4.2	m	y
385	Sem_050402_actual_parameters_204	verify that variables can be used as actual out value parameters of functions	Clause 5.4.2	m	n
386	Sem_050402_actual_parameters_205	verify that in value parameters can be used as actual out value parameters of functions	Clause 5.4.2	m	y
387	Sem_050402_actual_parameters_206	verify that <b>out</b> value parameters can be used as actual out value parameters of functions	Clause 5.4.2	m	y
388	Sem_050402_actual_parameters_207	verify that <b>inout</b> value parameters can be used as actual out value parameters of functions	Clause 5.4.2	m	y
389	Sem_050402_actual_parameters_208	verify that <b>in</b> template parameters can be used as actual out value parameters of functions	Clause 5.4.2	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
390	Sem_050402_actual_parameters_209	verify that <b>out</b> template parameters can be used as actual out value parameters of functions	Clause 5.4.2	m	n
391	Sem_050402_actual_parameters_210	verify that <b>inout</b> template parameters can be used as actual out value parameters of functions	Clause 5.4.2	m	n
392	Sem_050402_actual_parameters_211	verify that dash can be used as an actual out value parameter of functions	Clause 5.4.2	m	n
393	Sem_050402_actual_parameters_212	verify that variables can be used as actual out value parameters of altsteps	Clause 5.4.2	m	y
394	Sem_050402_actual_parameters_213	verify that variables can be used as actual out value parameters of altsteps	Clause 5.4.2	m	n
395	Sem_050402_actual_parameters_214	verify that in value parameters can be used as actual out value parameters of altsteps	Clause 5.4.2	m	y
396	Sem_050402_actual_parameters_215	verify that <b>out</b> value parameters can be used as actual out value parameters of altsteps	Clause 5.4.2	m	y
397	Sem_050402_actual_parameters_216	verify that <b>inout</b> value parameters can be used as actual out value parameters of altsteps	Clause 5.4.2	m	y
398	Sem_050402_actual_parameters_217	verify that <b>in</b> template parameters can be used as actual out value parameters of altsteps	Clause 5.4.2	m	n
399	Sem_050402_actual_parameters_218	verify that <b>out</b> template parameters can be used as actual out value parameters of altsteps	Clause 5.4.2	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
400	Sem_050402_actual_parameters_219	verify that <b>inout</b> template parameters can be used as actual out value parameters of altsteps	Clause 5.4.2	m	n
401	Sem_050402_actual_parameters_220	verify that dash can be used as an actual out value parameter of altsteps	Clause 5.4.2	m	n
402	Sem_050402_actual_parameters_221	verify that dash can be used as an actual out template parameter of functions	Clause 5.4.2	m	n
403	Sem_050402_actual_parameters_222	verify that dash can be used as an actual out template parameter of altsteps	Clause 5.4.2	m	n
404	Sem_050402_actual_parameters_223	verify that actual out value parameters of functions can be skipped if they are the last ones	Clause 5.4.2	m	n
405	Sem_050402_actual_parameters_224	verify that actual <b>out</b> value parameters of altsteps can be skipped if they are the last ones	Clause 5.4.2	m	n
406	Sem_050402_actual_parameters_225	verify that actual <b>out</b> template parameters of functions can be skipped if they are the last ones	Clause 5.4.2	m	n
407	Sem_050402_actual_parameters_226	verify that actual <b>out</b> template parameters of altsteps can be skipped if they are the last ones	Clause 5.4.2	m	n

## 5.15. Cyclic definitions

Table 14. Cyclic definitions

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
1	NegSem_0505_cyclic_definitions_001	Verify that an error is detected when two constants reference each other	Clause 5.5	m	y
2	NegSem_0505_cyclic_definitions_002	Verify that an error is detected when a forbidden cyclic reference occurs in cyclic import	Clause 5.5	m	y
3	Sem_0505_cyclic_definitions_001	The IUT correctly handles recursive functions	Clause 5.5	m	y
4	Sem_0505_cyclic_definitions_002	The IUT correctly handles cyclic imports	Clause 5.5	m	y
5	Sem_0505_cyclic_definitions_003	Verify that cyclic import containing cyclic function calls is allowed	Clause 5.5	m	y
6	Sem_0505_cyclic_definitions_004	Verify that cyclic altsteps are allowed	Clause 5.5	m	y

## 5.16. Simple basic types and values

Table 15. Simple basic types and values

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
1	NegSyn_06010_0_SimpleBasicTypes_001	Assign float to integer values	Clause 6.1.0	m	y
2	NegSyn_06010_0_SimpleBasicTypes_002	Assign boolean to integer values	Clause 6.1.0	m	y
3	NegSyn_06010_0_SimpleBasicTypes_003	Assign integer to float values	Clause 6.1.0	m	y
4	NegSyn_06010_0_SimpleBasicTypes_004	Assign boolean to float values	Clause 6.1.0	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
5	NegSyn_060100_SimpleBasicTypes_005	Assign verdicttype to float values	Clause 6.1.0	m	y
6	NegSyn_060100_SimpleBasicTypes_006	Assign integer to verdicttype values	Clause 6.1.0	m	y
7	Sem_060100_SimpleBasicTypes_001	Assign and read integer values	Clause 6.1.0	m	y
8	Sem_060100_SimpleBasicTypes_002	Assign and read large integer values	Clause 6.1.0	m	y
9	Sem_060100_SimpleBasicTypes_003	Assign and read float values	Clause 6.1.0	m	y
10	Sem_060100_SimpleBasicTypes_004	Assign and read large float values	Clause 6.1.0	m	y
11	Sem_060100_SimpleBasicTypes_005	Assign and read verdicts	Clause 6.1.0	m	y
12	Syn_060100_SimpleBasicTypes_001	Assign different integer values	Clause 6.1.0	m	y
13	Syn_060100_SimpleBasicTypes_002	Assign large integer values	Clause 6.1.0	m	y
14	Syn_060100_SimpleBasicTypes_003	Assign different float values	Clause 6.1.0	m	y
15	Syn_060100_SimpleBasicTypes_004	Assign small and large float values	Clause 6.1.0	m	y
16	Syn_060100_SimpleBasicTypes_005	Accept float mantissa for float values	Clause 6.1.0	m	y
17	Syn_060100_SimpleBasicTypes_006	Accept all verdict values	Clause 6.1.0	m	y

## 5.17. Basic string types and values

Table 16. Basic string types and values

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSyn_060101_TopLevel_001	Assign invalid bitstring value	Clause 6.1.1	m	y
2	NegSyn_060101_TopLevel_002	Assign string to bitstring values	Clause 6.1.1	m	y
3	NegSyn_060101_TopLevel_003	Assign octetstring to bitstring values	Clause 6.1.1	m	y
4	NegSyn_060101_TopLevel_004	Assign invalid hexstring value	Clause 6.1.1	m	y
5	NegSyn_060101_TopLevel_005	Assign string to hexstring values	Clause 6.1.1	m	y
6	NegSyn_060101_TopLevel_006	Assign octetstring to hexstring values	Clause 6.1.1	m	y
7	NegSyn_060101_TopLevel_007	Assign invalid octetstring value	Clause 6.1.1	m	y
8	NegSyn_060101_TopLevel_008	Assign string to octetstring values	Clause 6.1.1	m	y
9	NegSyn_060101_TopLevel_009	Assign hexstring to octetstring values	Clause 6.1.1	m	y
10	NegSyn_060101_TopLevel_010	Assign invalid hexstring value	Clause 6.1.1	m	y
11	Sem_060101_TopLevel_001	Assign and read bitstring	Clause 6.1.1	m	y
12	Sem_060101_TopLevel_002	Assign and read hexstring	Clause 6.1.1	m	y
13	Sem_060101_TopLevel_003	Assign and read octetstring	Clause 6.1.1	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
14	Sem_060101_TopLevel_004	Assign and read charstring	Clause 6.1.1	m	y
15	Sem_060101_TopLevel_005	Assign and read universal charstring	Clause 6.1.1	m	y
16	Sem_060101_TopLevel_006	Assign and read universal charstring	Clause 6.1.1	m	y
17	Sem_060101_TopLevel_007	Assign and read universal charstring using USI like notation	Clause 6.1.1	m	y
18	Sem_060101_TopLevel_008	Assign and read bitstring with newline character	Clause 6.1.1	m	n
19	Sem_060101_TopLevel_009	Whitespaces, control characters and backslash will be ignored for the bitstring length calculation	Clause 6.1.1	m	n
20	Sem_060101_TopLevel_010	Assign and read hexstring with newline character	Clause 6.1.1	m	n
21	Sem_060101_TopLevel_011	Whitespaces, control characters and backslash will be ignored for the hexstring length calculation	Clause 6.1.1	m	n
22	Sem_060101_TopLevel_012	Assign and read octetstring with newline character	Clause 6.1.1	m	n
23	Sem_060101_TopLevel_013	Whitespaces, control characters and backslash will be ignored for the octetstring length calculation	Clause 6.1.1	m	n
24	Sem_060101_TopLevel_014	Whitespaces and backslash character is allowed in a universal charstring	Clause 6.1.1	m	n
25	Sem_060101_TopLevel_015	Whitespaces, control characters and backslash will be included for the universal charstring length calculation	Clause 6.1.1	m	n

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
26	Syn_060101_TopLevel_001	Assign different bitstring values	Clause 6.1.1	m	y
27	Syn_060101_TopLevel_002	Assign different hexstring values	Clause 6.1.1	m	y
28	Syn_060101_TopLevel_003	Assign different octetstring values	Clause 6.1.1	m	y

## 5.18. Accessing individual string elements

Table 17. Accessing individual string elements

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
1	NegSem_06010101_AccessStringElements_001	Accessing not individual elements of a bitstring	Clause 6.1.1.1	m	y
2	NegSem_06010101_AccessStringElements_002	Access bitstring element out of range	Clause 6.1.1.1	m	y
3	NegSem_06010101_AccessStringElements_003	Accessing not individual elements of a hexstring	Clause 6.1.1.1	m	y
4	NegSem_06010101_AccessStringElements_004	Access hexstring element out of range	Clause 6.1.1.1	m	y
5	NegSem_06010101_AccessStringElements_005	Accessing not individual elements of an octetstring	Clause 6.1.1.1	m	y
6	NegSem_06010101_AccessStringElements_006	Access hexstring element out of range	Clause 6.1.1.1	m	y
7	Sem_06010101_AccessStringElements_001	Access bitstring elements	Clause 6.1.1.1	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
8	Sem_06010101_AccessStringElements_002	Access octetstring elements	Clause 6.1.1.1	m	y
9	Sem_06010101_AccessStringElements_003	Access hexstring elements	Clause 6.1.1.1	m	y
10	Sem_06010101_AccessStringElements_004	Access bitstring elements	Clause 6.1.1.1	m	y
11	Sem_06010101_AccessStringElements_005	Access hexstring elements	Clause 6.1.1.1	m	y
12	Sem_06010101_AccessStringElements_006	Access octetstring elements	Clause 6.1.1.1	m	y
13	Sem_06010101_AccessStringElements_007	Access charstring elements	Clause 6.1.1.1	m	y
14	Sem_06010101_AccessStringElements_008	Access charstring elements	Clause 6.1.1.1	m	y
15	Sem_06010101_AccessStringElements_009	Access charstring elements with nonprintable characters	Clause 6.1.1.1	m	y

## 5.19. Lists of values

Table 18. Lists of values

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
1	NegSem_06010201_ListOfValues_001	Assign values to restricted bitstring.	Clause 6.1.2.1	m	y
2	NegSem_06010201_ListOfValues_002	Assign values to restricted hexstring.	Clause 6.1.2.1	m	y
3	NegSem_06010201_ListOfValues_003	Assign values to restricted octetstring.	Clause 6.1.2.1	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
4	NegSem_06010201_ListOfValues_004	Assign values to restricted charstring.	Clause 6.1.2.1	m	y
5	NegSem_06010201_ListOfValues_005	Assign values to restricted integer.	Clause 6.1.2.1	m	y
6	NegSem_06010201_ListOfValues_006	Assign values to restricted float.	Clause 6.1.2.1	m	y
7	Sem_06010201_ListOfValues_001	Assign invalid values to restricted bitstring.	Clause 6.1.2.1	m	y

## 5.20. Lists of types

Table 19. Lists of types

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
1	NegSem_06010202_ListOfTypes_001	Assign invalid values to list of types restricted bitstring.	Clause 6.1.2.2	m	y
2	NegSem_06010202_ListOfTypes_002	Assign invalid values to list of types restricted hexstring.	Clause 6.1.2.2	m	y
3	NegSem_06010202_ListOfTypes_003	Assign invalid values to list of types restricted octetstring.	Clause 6.1.2.2	m	y
4	NegSem_06010202_ListOfTypes_004	Assign invalid values to list of types restricted charstring.	Clause 6.1.2.2	m	y
5	NegSem_06010202_ListOfTypes_005	Assign invalid values to list of types restricted universal charstrings.	Clause 6.1.2.2	m	y
6	NegSem_06010202_ListOfTypes_006	Assign invalid values to list of types restricted integers.	Clause 6.1.2.2	m	y
7	NegSem_06010202_ListOfTypes_007	Assign invalid values to list of types restricted floats.	Clause 6.1.2.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
8	NegSem_06010202_ListOfTypes_008	Assign invalid values to list of types restricted boolean value.	Clause 6.1.2.2	m	y
9	NegSem_06010202_ListOfTypes_009	Assign invalid values to list of types restricted verdicttype.	Clause 6.1.2.2	m	y
10	Sem_06010202_ListOfTypes_001	Assign values to list of types restricted bitstring.	Clause 6.1.2.2	m	y
11	Sem_06010202_ListOfTypes_002	Assign values to list of types restricted hexstring.	Clause 6.1.2.2	m	y
12	Sem_06010202_ListOfTypes_003	Assign values to list of types restricted octetstring.	Clause 6.1.2.2	m	y
13	Sem_06010202_ListOfTypes_004	Assign values to list of types restricted charstring.	Clause 6.1.2.2	m	y
14	Sem_06010202_ListOfTypes_005	Assign values to list of types unicharstring allows non-printable characters	Clause 6.1.2.2	m	y
15	Sem_06010202_ListOfTypes_006	Assign values to list of types restricted integers.	Clause 6.1.2.2	m	y
16	Sem_06010202_ListOfTypes_007	Assign values to list of types restricted floats.	Clause 6.1.2.2	m	y
17	Sem_06010202_ListOfTypes_008	Assign values to list of types restricted boolean value.	Clause 6.1.2.2	m	y
18	Sem_06010202_ListOfTypes_009	Assign values to list of types restricted verdicttype.	Clause 6.1.2.2	m	y

## 5.21. Ranges

Table 20. Ranges

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
1	NegSem_0601 0203_Ranges_001	Assign invalid values to restricted integer.	Clause 6.1.2.3	m	y
2	NegSem_0601 0203_Ranges_002	Assign invalid values to restricted integer.	Clause 6.1.2.3	m	y
3	NegSem_0601 0203_Ranges_003	Assure that not_a_number is not allowed in float range subtyping.	Clause 6.1.2.3	m	y
4	NegSem_0601 0203_Ranges_004	Assign invalid values to restricted integer with exclusive bounds.	Clause 6.1.2.3	m	y
5	NegSem_0601 0203_Ranges_005	Assign invalid values to restricted integer with exclusive bounds.	Clause 6.1.2.3	m	y
6	NegSem_0601 0203_Ranges_006	Assign range to boolean not permitted.	Clause 6.1.2.3	m	y
7	NegSem_0601 0203_Ranges_007	Assign invalid value to range constrained charstring.	Clause 6.1.2.3	m	y
8	NegSem_0601 0203_Ranges_008	Assign invalid value to range constrained charstring.	Clause 6.1.2.3	m	y
9	NegSem_0601 0203_Ranges_009	Assign invalid value to range constrained charstring.	Clause 6.1.2.3	m	y
10	NegSem_0601 0203_Ranges_010	Assign invalid values to restricted float.	Clause 6.1.2.3	m	y
11	NegSem_0601 0203_Ranges_011	Assign invalid values to range restricted float.	Clause 6.1.2.3	m	y
12	NegSem_0601 0203_Ranges_012	Assign invalid values to range excluded restricted float.	Clause 6.1.2.3	m	y
13	NegSem_0601 0203_Ranges_013	Assign invalid value to range constrained universal charstring.	Clause 6.1.2.3	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
14	NegSem_06010203_Ranges_014	Assign invalid value to range constrained universal charstring with mixed bounds.	Clause 6.1.2.3	m	y
15	NegSem_06010203_Ranges_015	Assign invalid value to range constrained charstring.	Clause 6.1.2.3	m	y
16	NegSem_06010203_Ranges_016	Invalid value infinity for range constrained charstring.	Clause 6.1.2.3	m	y
17	NegSem_06010203_Ranges_017	Invalid value -infinity for range constrained charstring.	Clause 6.1.2.3	m	y
18	Sem_06010203_Ranges_001	Assign values to range restricted integer.	Clause 6.1.2.3	m	y
19	Sem_06010203_Ranges_002	Assign values to infinity range restricted integer.	Clause 6.1.2.3	m	y
20	Sem_06010203_Ranges_003	Assign values to range restricted integer with exclusive bounds.	Clause 6.1.2.3	m	y
21	Sem_06010203_Ranges_004	Assign values to range restricted charstring with inclusive bounds.	Clause 6.1.2.3	m	y
22	Sem_06010203_Ranges_005	Assign values to range restricted charstring with exclusive bounds.	Clause 6.1.2.3	m	y
23	Sem_06010203_Ranges_006	Assign values to range restricted charstring with mixed bounds.	Clause 6.1.2.3	m	y
24	Sem_06010203_Ranges_007	Assign values to range restricted universal charstring.	Clause 6.1.2.3	m	y
25	Sem_06010203_Ranges_008	Assign values to range restricted universal charstring with mixed bounds.	Clause 6.1.2.3	m	y

## 5.22. String length restrictions

Table 21. String length restrictions

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
1	NegSem_06010204_StringLengthRestrict_001	Assign invalid values to length restricted bitstring.	Clause 6.1.2.4	m	y
2	NegSem_06010204_StringLengthRestrict_002	Assign invalid values to length restricted bitstring.	Clause 6.1.2.4	m	y
3	NegSem_06010204_StringLengthRestrict_003	Assign invalid values to length restricted hexstring	Clause 6.1.2.4	m	y
4	NegSem_06010204_StringLengthRestrict_004	Assign invalid values to length restricted hexstring	Clause 6.1.2.4	m	y
5	NegSem_06010204_StringLengthRestrict_005	Assign invalid values to length restricted octetstring	Clause 6.1.2.4	m	y
6	NegSem_06010204_StringLengthRestrict_006	Assign invalid values to length restricted octetstring	Clause 6.1.2.4	m	y
7	NegSem_06010204_StringLengthRestrict_007	Assign invalid values to length restricted charstring	Clause 6.1.2.4	m	y
8	NegSem_06010204_StringLengthRestrict_008	Assign invalid values to length restricted charstring	Clause 6.1.2.4	m	y
9	NegSyn_06010204_StringLengthRestrict_001	upper boundary should be greater than lower boundary in string length restrictions	Clause 6.1.2.4	m	y
10	NegSyn_06010204_StringLengthRestrict_002	boundary integers should be non negative integers	Clause 6.1.2.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
11	Sem_06010204_StringLengthRestrict_001	Assign values to list of types restricted bitstring.	Clause 6.1.2.4	m	y
12	Sem_06010204_StringLengthRestrict_002	Assign values to list of types restricted hexstring.	Clause 6.1.2.4	m	y
13	Sem_06010204_StringLengthRestrict_003	Assign values to list of types restricted octetstring.	Clause 6.1.2.4	m	y
14	Sem_06010204_StringLengthRestrict_004	Assign values to list of types restricted charstring.	Clause 6.1.2.4	m	y

## 5.23. Pattern subtyping of character string types

Table 22. Pattern subtyping of character string types

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_06010205_StringPattern_001	Assign invalid values to pattern restricted character strings.	Clause 6.1.2.5	m	y
2	NegSyn_06010205_StringPattern_001	Assign values to pattern restricted character strings without <b>@nocase</b> modifier.	Clause 6.1.2.5	m	y
3	NegSyn_06010205_StringPattern_002	Assign quadruple values to pattern restricted character strings.	Clause 6.1.2.5	m	y
4	Sem_06010205_StringPattern_001	Assign values to pattern restricted character strings.	Clause 6.1.2.5	m	y
5	Sem_06010205_StringPattern_002	Assign values to pattern restricted character strings.	Clause 6.1.2.5	m	y
6	Sem_06010205_StringPattern_003	Assign values to pattern restricted character strings with <b>@nocase</b> modifier.	Clause 6.1.2.5	m	y

## 5.24. Mixing patterns, lists and ranges

Table 23. Mixing patterns, lists and ranges

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_0601020601_MixingSubtype_001	Assign invalid values to mixed restricted floats.	Clause 6.1.2.6.1	m	y
2	NegSem_0601020601_MixingSubtype_002	Assign invalid values to mixed restricted integers.	Clause 6.1.2.6.1	m	y
3	Sem_0601020601_MixingSubtype_001	Assign values to mixed restricted floats.	Clause 6.1.2.6.1	m	y
4	Sem_0601020601_MixingSubtype_002	Assign values to mixed restricted integers.	Clause 6.1.2.6.1	m	y

## 5.25. Using length restriction with other constraints

Table 24. Using length restriction with other constraints

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_0601020602_StringMixing_001	Assign invalid values to mixed restricted character strings.	Clause 6.1.2.6.2	m	y
2	NegSem_0601020602_StringMixing_002	Assign invalid values to mixed restricted character strings.	Clause 6.1.2.6.2	m	y
3	NegSem_0601020602_StringMixing_003	Assign invalid values to mixed restricted character strings.	Clause 6.1.2.6.2	m	y
4	NegSem_0601020602_StringMixing_004	Assign invalid values to mixed restricted bit strings.	Clause 6.1.2.6.2	m	y
5	NegSem_0601020602_StringMixing_005	Assign invalid values to mixed restricted hex strings.	Clause 6.1.2.6.2	m	y
6	NegSem_0601020602_StringMixing_006	Assign invalid values to mixed restricted octet strings.	Clause 6.1.2.6.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
7	Sem_06010206_02_StringMixing_001	Assign values to mixed restricted character strings.	Clause 6.1.2.6.2	m	y
8	Sem_06010206_02_StringMixing_002	Assign values to mixed restricted character strings.	Clause 6.1.2.6.2	m	y
9	Sem_06010206_02_StringMixing_003	Assign values to mixed restricted character strings.	Clause 6.1.2.6.2	m	y
10	Sem_06010206_02_StringMixing_004	Assign values to mixed restricted bit strings.	Clause 6.1.2.6.2	m	y
11	Sem_06010206_02_StringMixing_005	Assign values to mixed restricted hex strings.	Clause 6.1.2.6.2	m	y
12	Sem_06010206_02_StringMixing_006	Assign values to mixed restricted octet strings.	Clause 6.1.2.6.2	m	y
13	Sem_06010206_02_StringMixing_007	Assign values to pattern restricted character strings using <code>@nocase</code> modifier	Clause 6.1.2.6.2	m	y

## 5.26. Structured types and values

Table 25. Structured types and values

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_0602_TopLevel_001	Value list notation can not be used for a union type.	Clause 6.2	m	y
2	NegSem_0602_TopLevel_002	Indexed notation can not be used for a record type.	Clause 6.2	m	y
3	NegSem_0602_TopLevel_003	Indexed notation can not be used for a set type.	Clause 6.2	m	y
4	NegSem_0602_TopLevel_004	Indexed notation can not be used for a union type.	Clause 6.2	m	y
5	NegSyn_0602_TopLevel_001	Invalid recursive union type definition causing an error	Clause 6.2	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
6	NegSyn_0602_TopLevel_002	Invalid recursive record type definition causing an error	Clause 6.2	m	y
7	NegSyn_0602_TopLevel_003	Combined value list and assignment notation not allowed in the same (immediate) context.	Clause 6.2	m	y
8	NegSyn_0602_TopLevel_004	Combined value list and assignment notation not allowed in the same (immediate) context.	Clause 6.2	m	y
9	NegSyn_0602_TopLevel_005	Combined value list and assignment notation not allowed in the same (immediate) context.	Clause 6.2	m	y
10	NegSyn_0602_TopLevel_006	Combined value list and assignment notation not allowed in the same (immediate) context.	Clause 6.2	m	y
11	NegSyn_0602_TopLevel_007	Combined value list and assignment notation not allowed in the same (immediate) context.	Clause 6.2	m	y
12	Sem_0602_TopLevel_001	Assignment notation can be used for a record type.	Clause 6.2	m	y
13	Sem_0602_TopLevel_002	Assignment notation can be used for a record of type.	Clause 6.2	m	y
14	Sem_0602_TopLevel_003	Assignment notation can be used for a set type.	Clause 6.2	m	y
15	Sem_0602_TopLevel_004	Assignment notation can be used for a set of type.	Clause 6.2	m	y
16	Sem_0602_TopLevel_005	Assignment notation can be used for a union type.	Clause 6.2	m	y
17	Sem_0602_TopLevel_006	Assignment notation can be used for an array.	Clause 6.2	m	y
18	Sem_0602_TopLevel_007	Value list notation can be used for a record type.	Clause 6.2	m	y
19	Sem_0602_TopLevel_008	Value list notation can be used for a record of type.	Clause 6.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
20	Sem_0602_Top Level_009	Indexed notation can be used for an arrays.	Clause 6.2	m	y
21	Sem_0602_Top Level_010	Value list notation can be used for a set of type.	Clause 6.2	m	y
22	Sem_0602_Top Level_011	Value list notation can be used for an array.	Clause 6.2	m	y
23	Sem_0602_Top Level_012	Indexed notation can be used for a record of type.	Clause 6.2	m	y
24	Sem_0602_Top Level_013	Indexed notation can be used for a set of type.	Clause 6.2	m	y
25	Sem_0602_Top Level_014	Value list notation can be used for a set type and the values	Clause 6.2	m	n
26	Syn_0602_Top Level_001	Valid recursive union type definition	Clause 6.2	m	y
27	Syn_0602_Top Level_002	Valid recursive record type definition	Clause 6.2	m	y
28	Syn_0602_Top Level_003	Valid recursive record type definition	Clause 6.2	m	y
29	Syn_0602_Top Level_004	constant definition of a record type.	Clause 6.2	m	y
30	Syn_0602_Top Level_005	Fields not mentioned are implicitly left unspecified.	Clause 6.2	m	y

## 5.27. Record type and values

Table 26. Record type and values

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSyn_060201_RecordType Values_001	The omit keyword shall not be used for mandatory fields.	Clause 6.2.1	m	y
2	NegSyn_060201_RecordType Values_002	The omit keyword shall not be used for mandatory fields.	Clause 6.2.1	m	y
3	Sem_060201_RecordTypeValues_001	Assignments with <b>implicit omit</b> attribute are correctly handled	Clause 6.2.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
4	Sem_060201_RecordTypeValues_002	Assignments with <b>implicit omit</b> attribute are correctly handled	Clause 6.2.1	m	y
5	Sem_060201_RecordTypeValues_003	Assignments with <b>implicit omit</b> attribute are correctly handled	Clause 6.2.1	m	y
6	Syn_060201_RecordTypeValues_001	The element identifiers are local to the record and shall be unique within the record (but do not have to be globally unique).	Clause 6.2.1	m	y
7	Syn_060201_RecordTypeValues_002	The IUT correctly handles empty record definitions.	Clause 6.2.1	m	y
8	NegSyn_060202_SetTypeValues_001	The omit keyword shall not be used for mandatory fields.	Clause 6.2.1	m	y
9	NegSyn_060202_SetTypeValues_002	The omit keyword shall not be used for mandatory fields.	Clause 6.2.1	m	y
10	Sem_060202_SetTypeValues_005	Assignments with <b>implicit omit</b> attribute are correctly handled	Clause 6.2.1	m	y
11	Sem_060202_SetTypeValues_006	Assignments with <b>implicit omit</b> attribute are correctly handled	Clause 6.2.1	m	y
12	Sem_060202_SetTypeValues_007	Assignments with <b>implicit omit</b> attribute are correctly handled	Clause 6.2.1	m	y

## 5.28. Referencing fields of a record type

Table 27. Referencing fields of a record type

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_06020101_ReferencingRecordFields_001	The dot notation used in record type definitions is correctly handled	Clause 6.2.1.1	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
2	NegSem_06020101_ReferencingRecordFields_002	verify that record fields cannot reference themselves	Clause 6.2.1.1	m	y
3	NegSem_06020101_ReferencingRecordFields_003	verify that referencing uninitialized record on the right hand of an assignment is not allowed	Clause 6.2.1.1	m	y
4	NegSem_06020101_ReferencingRecordFields_004	verify that referencing omitted record on the right hand of an assignment is not allowed	Clause 6.2.1.1	m	y
5	Sem_06020101_ReferencingRecordFields_001	The dot notation used in record type definitions is correctly handled	Clause 6.2.1.1	m	y
6	Sem_06020101_ReferencingRecordFields_002	The dot notation used in record type definitions is correctly handled	Clause 6.2.1.1	m	y
7	Sem_06020101_ReferencingRecordFields_003	The dot notation used in record type definitions is correctly handled	Clause 6.2.1.1	m	y
8	Sem_06020101_ReferencingRecordFields_004	The dot notation used in record type definitions is correctly handled	Clause 6.2.1.1	m	y
9	Sem_06020101_ReferencingRecordFields_005	verify that dot notation can be used for referencing elements on the right hand side of an assignment	Clause 6.2.1.1	m	y
10	Sem_06020101_ReferencingRecordFields_006	verify that dot notation can be used for referencing sub-elements on the right hand side of an assignment	Clause 6.2.1.1	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
11	Sem_06020101_ReferencingRecordFields_007	verify that dot notation can be used for referencing function invocation results	Clause 6.2.1.1	m	y
12	Sem_06020101_ReferencingRecordFields_008	verify that mandatory fields are created and uninitialized when expanding uninitialized record values	Clause 6.2.1.1	m	y
13	Sem_06020101_ReferencingRecordFields_009	verify that optional fields are created and uninitialized when expanding uninitialized record values (explicit omit)	Clause 6.2.1.1	m	y
14	Sem_06020101_ReferencingRecordFields_010	verify that optional fields are created and omitted when expanding uninitialized record values (implicit omit)	Clause 6.2.1.1	m	n
15	Sem_06020101_ReferencingRecordFields_011	verify that referencing fields nested deep inside uninitialized record invokes expansion	Clause 6.2.1.1	m	y
16	Sem_06020101_ReferencingRecordFields_012	verify that expansion of uninitialized record values works when other constructive types are involved	Clause 6.2.1.1	m	y
17	Sem_06020101_ReferencingRecordFields_013	verify that mandatory fields are created and uninitialized when expanding omitted record values	Clause 6.2.1.1	m	y
18	Sem_06020101_ReferencingRecordFields_014	verify that optional fields are created and uninitialized when expanding omitted record values (explicit omit)	Clause 6.2.1.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
19	Sem_06020101_ReferencingRecordFields_015	verify that optional fields are created and omitted when expanding omitted record values (implicit omit)	Clause 6.2.1.1	m	n
20	Sem_06020101_ReferencingRecordFields_016	verify that referencing fields nested deep inside omitted record invokes expansion	Clause 6.2.1.1	m	y
21	Sem_06020101_ReferencingRecordFields_017	verify that expansion of omitted record values works when other constructive types are involved	Clause 6.2.1.1	m	y

## 5.29. Set type and values

Table 28. Set type and values

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_060202_SetTypeValues_001	The dot notation used in set type definitions is correctly handled	Clause 6.2.2	m	y
2	Sem_060202_SetTypeValues_001	The dot notation used in set type definitions is correctly handled	Clause 6.2.2	m	y
3	Sem_060202_SetTypeValues_002	The dot notation used in set type definitions is correctly handled	Clause 6.2.2	m	y
4	Sem_060202_SetTypeValues_003	The dot notation used in set type definitions is correctly handled	Clause 6.2.2	m	y
5	Sem_060202_SetTypeValues_004	The dot notation used in set type definitions is correctly handled	Clause 6.2.2	m	y
6	Syn_060202_SetTypeValues_001	The element identifiers are local to the set and shall be unique within the record (but do not have to be globally unique).	Clause 6.2.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
7	Syn_060202_SetTypeValues_002	The IUT correctly handles empty set definitions.	Clause 6.2.2	m	y

## 5.30. Records and sets of single types

Table 29. Records and sets of single types

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_060203_records_and_sets_of_single_types_003	negative index applied to a record of value on the right hand side of an assignment	Clause 6.2.3	m	y
2	NegSem_060203_records_and_sets_of_single_types_004	negative index applied to a set of value on the right hand side of an assignment	Clause 6.2.3	m	y
3	NegSem_060203_records_and_sets_of_single_types_005	negative index applied to a record of value on the left hand side of an assignment	Clause 6.2.3	m	y
4	NegSem_060203_records_and_sets_of_single_types_006	negative index applied to a set of value on the left hand side of an assignment	Clause 6.2.3	m	y
5	NegSem_060203_records_and_sets_of_single_types_007	wrong index type applied to a record of value on the right hand side of an assignment	Clause 6.2.3	m	y
6	NegSem_060203_records_and_sets_of_single_types_008	wrong index type applied to a set of value on the right hand side of an assignment	Clause 6.2.3	m	y
7	NegSem_060203_records_and_sets_of_single_types_009	wrong index type applied to a record of value on the left hand side of an assignment	Clause 6.2.3	m	y
8	NegSem_060203_records_and_sets_of_single_types_016	array as a record-of value index on right hand side (less items than record-of dimension)	Clause 6.2.3	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
9	NegSem_060203_records_and_sets_of_single_types_017	array as a record-of value index on left hand side (less items than record-of dimension)	Clause 6.2.3	m	y
10	NegSem_060203_records_and_sets_of_single_types_018	fixed-size record-of as a record-of value index on right hand side (less items than record-of dimension)	Clause 6.2.3	m	y
11	NegSem_060203_records_and_sets_of_single_types_019	fixed-size record-of as a record-of value index on left hand side (less items than record-of dimension)	Clause 6.2.3	m	y
12	NegSem_060203_records_and_sets_of_single_types_020	fixed-size set-of as a record-of value index on right hand side	Clause 6.2.3	m	y
13	NegSem_060203_records_and_sets_of_single_types_021	fixed-size set-of as a record-of value index on left hand side	Clause 6.2.3	m	y
14	NegSem_060203_records_and_sets_of_single_types_022	variable-size record-of as a record-of value index on right hand side	Clause 6.2.3	m	y
15	NegSem_060203_records_and_sets_of_single_types_023	variable-size record-of as a record-of value index on left hand side (less items than record-of dimension)	Clause 6.2.3	m	y
16	Sem_060203_records_and_sets_of_single_types_020	referencing non-existent element of set of value (left-hand side)	Clause 6.2.3	m	y
17	Sem_060203_records_and_sets_of_single_types_021	referencing element of uninitialized record of value (left-hand side)	Clause 6.2.3	m	y
18	Sem_060203_records_and_sets_of_single_types_022	referencing element of uninitialized set of value (left-hand side)	Clause 6.2.3	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
19	Sem_060203_records_and_sets_of_single_types_023	array as a record-of value index on right hand side (dimensions match)	Clause 6.2.3	m	y
20	Sem_060203_records_and_sets_of_single_types_024	array as a record-of value index on left hand side (dimensions match)	Clause 6.2.3	m	y
21	Sem_060203_records_and_sets_of_single_types_025	array as a record-of value index on right hand side (less items than record-of dimension)	Clause 6.2.3	m	y
22	Sem_060203_records_and_sets_of_single_types_026	array as a record-of value index on left hand side (less items than record-of dimension)	Clause 6.2.3	m	y
23	Sem_060203_records_and_sets_of_single_types_027	fixed-size record-of as a record-of value index on right hand side (dimensions match)	Clause 6.2.3	m	y
24	Sem_060203_records_and_sets_of_single_types_028	fixed-size record-of as a record-of value index on left hand side (dimensions match)	Clause 6.2.3	m	y
25	Sem_060203_records_and_sets_of_single_types_029	fixed-size record-of as a record-of value index on right hand side (less items than record-of dimension)	Clause 6.2.3	m	y
26	Sem_060203_records_and_sets_of_single_types_030	fixed-size record-of as a record-of value index on left hand side (less items than record-of dimension)	Clause 6.2.3	m	y
27	Sem_060203_records_and_sets_of_single_types_031	array as a set-of value index on right hand side (dimensions match)	Clause 6.2.3	m	y
28	Sem_060203_records_and_sets_of_single_types_032	array as a set-of value index on left hand side (dimensions match)	Clause 6.2.3	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
29	Sem_060203_records_and_sets_of_single_types_033	array as a set-of value index on right hand side (less items than record-of dimension)	Clause 6.2.3	m	y
30	Sem_060203_records_and_sets_of_single_types_034	array as a set-of value index on left hand side (less items than record-of dimension)	Clause 6.2.3	m	y
31	Sem_060203_records_and_sets_of_single_types_035	fixed-size set-of as a record-of value index on right hand side (dimensions match)	Clause 6.2.3	m	y
32	Sem_060203_records_and_sets_of_single_types_036	fixed-size set-of as a record-of value index on left hand side (dimensions match)	Clause 6.2.3	m	y
33	Sem_060203_records_and_sets_of_single_types_037	fixed-size set-of as a record-of value index on right hand side (less items than record-of dimension)	Clause 6.2.3	m	y
34	Sem_060203_records_and_sets_of_single_types_038	fixed-size record-of as a set-of value index on left hand side (less items than record-of dimension)	Clause 6.2.3	m	y

## 5.31. Referencing elements of record of and set of types

Table 30. Referencing elements of record of and set of types

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_060203_records_and_sets_of_single_types_001	ensure that the inner type referencing is correctly handled	Clause 6.2.3.2	m	y
2	NegSem_060203_records_and_sets_of_single_types_002	ensure that the inner type referencing is correctly handled	Clause 6.2.3.2	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
3	NegSem_060203_records_and_sets_of_single_types_010	wrong index type applied to a set of value on the left hand side of an assignment	Clause 6.2.3.2	m	y
4	NegSem_060203_records_and_sets_of_single_types_011	record of index greater than the upper bound (left-hand side)	Clause 6.2.3.2	m	n
5	NegSem_060203_records_and_sets_of_single_types_012	set of index greater than the upper bound (left-hand side)	Clause 6.2.3.2	m	n
6	NegSem_060203_records_and_sets_of_single_types_013	wrong index type applied to a record of value on the right hand side of an assignment	Clause 6.2.3.2	m	y
7	NegSem_060203_records_and_sets_of_single_types_014	wrong index type applied to a record of value on the right hand side of an assignment	Clause 6.2.3.2	m	y
8	NegSem_060203_records_and_sets_of_single_types_015	verify than an error is generated when sending a partially initialized record of value	Clause 6.2.3.2	m	y
9	NegSyn_060203_records_and_sets_of_single_types_001	ensure that value list cannot contain an empty assignment	Clause 6.2.3.2	m	y
10	Sem_060203_records_and_sets_of_single_types_001	ensure that the inner type referencing is correctly handled	Clause 6.2.3.2	m	y
11	Sem_060203_records_and_sets_of_single_types_002	verify assignment of explicitly identified elements to record of values	Clause 6.2.3.2	m	n
12	Sem_060203_records_and_sets_of_single_types_003	verify assignment of explicitly identified elements to set of values	Clause 6.2.3.2	m	n

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
13	Sem_060203_records_and_sets_of_single_types_004	verify handling of missing elements in assignment notation for record of values	Clause 6.2.3.2	m	y
14	Sem_060203_records_and_sets_of_single_types_005	verify handling of missing elements in assignment notation for set of values	Clause 6.2.3.2	m	y
15	Sem_060203_records_and_sets_of_single_types_006	verify handling of missing and ignored elements during record of value re-assignment	Clause 6.2.3.2	m	n
16	Sem_060203_records_and_sets_of_single_types_007	verify handling of missing and ignored elements during record of value re-assignment	Clause 6.2.3.2	m	n
17	Sem_060203_records_and_sets_of_single_types_008	verify handling of value list assignment used for initialization of record of values	Clause 6.2.3.2	m	y
18	Sem_060203_records_and_sets_of_single_types_009	verify handling of value list assignment used for initialization of set of values	Clause 6.2.3.2	m	y
19	Sem_060203_records_and_sets_of_single_types_010	verify handling of value list assignment used for update of record of values	Clause 6.2.3.2	m	y
20	Sem_060203_records_and_sets_of_single_types_011	verify handling of value list assignment used for update of set of values	Clause 6.2.3.2	m	y
21	Sem_060203_records_and_sets_of_single_types_012	verify handling of index notation applied to record of values on right-hand side	Clause 6.2.3.2	m	y
22	Sem_060203_records_and_sets_of_single_types_013	verify handling of index notation applied to set of values on right-hand side	Clause 6.2.3.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
23	Sem_060203_records_and_sets_of_single_types_014	verify handling of index notation applied to record of values on left-hand side	Clause 6.2.3.2	m	y
24	Sem_060203_records_and_sets_of_single_types_015	verify handling of index notation applied to set of values on left-hand side	Clause 6.2.3.2	m	y
25	Sem_060203_records_and_sets_of_single_types_016	verify the first element of a record of value is accessible by an index notation	Clause 6.2.3.2	m	y
26	Sem_060203_records_and_sets_of_single_types_017	verify the first element of a set of value is accessible by an index notation	Clause 6.2.3.2	m	y
27	Sem_060203_records_and_sets_of_single_types_019	referencing non-existent element of record of value (left-hand side)	Clause 6.2.3.2	m	y

## 5.32. Enumerated type and values

Table 31. Enumerated type and values

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_060204_enumerated_type_and_values_001	not unique identifiers in enumerated type declaration	Clause 6.2.4	m	y
2	NegSem_060204_enumerated_type_and_values_002	two equal user-assigned enumerated values	Clause 6.2.4	m	y
3	NegSem_060204_enumerated_type_and_values_003	using enumerated value number directly (left hand side of assignments)	Clause 6.2.4	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
4	NegSem_060204_enumerated_type_and_values_004	using enumerated value number directly (right hand side of assignments)	Clause 6.2.4	m	y
5	NegSem_060204_enumerated_type_and_values_005	using enumerated value without implicit or explicit type reference	Clause 6.2.4	m	y
6	NegSem_060204_enumerated_type_and_values_006	modulepar with the same name as one of enumerated values of the imported parent type	Clause 6.2.4	m	n
7	NegSem_060204_enumerated_type_and_values_007	formal parameter with the same name as one of enumerated values of the imported parent type	Clause 6.2.4	m	n
8	NegSem_060204_enumerated_type_and_values_008	constant with the same name as one of enumerated values of the imported parent type	Clause 6.2.4	m	n
9	NegSem_060204_enumerated_type_and_values_009	variable with the same name as one of enumerated values of the imported parent type	Clause 6.2.4	m	n
10	NegSem_060204_enumerated_type_and_values_010	template with the same name as one of enumerated values of the imported parent type	Clause 6.2.4	m	n
11	NegSem_060204_enumerated_type_and_values_011	parameterized template with default parameters and the same name as one of enumerated values of the imported parent type	Clause 6.2.4	m	n
12	NegSem_060204_enumerated_type_and_values_012	using enumerated value number integer conversion	Clause 6.2.4	m	y
13	NegSyn_060204_enumerated_type_and_values_001	expression as user-assigned enumerated value	Clause 6.2.4	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
14	Sem_060204_enumerated_type_and_values_001	reusing enumerated value identifier in another enumerated type declaration	Clause 6.2.4	m	y
15	Sem_060204_enumerated_type_and_values_002	automatic numbering of enumerated items	Clause 6.2.4	m	y
16	Sem_060204_enumerated_type_and_values_003	explicit numbering of enumerated items	Clause 6.2.4	m	y
17	Sem_060204_enumerated_type_and_values_004	mixed automatic and explicit numbering of enumerated items	Clause 6.2.4	m	y
18	Sem_060204_enumerated_type_and_values_005	using enumerated value with implicit type reference	Clause 6.2.4	m	y
19	Sem_060204_enumerated_type_and_values_006	parameterized template without default parameters and with the same name as one of enumerated values of the imported parent type	Clause 6.2.4	m	y
20	Sem_060204_enumerated_type_and_values_007	mixed automatic and explicit numbering of enumerated items	Clause 6.2.4	m	n
21	Syn_060204_enumerated_type_and_values_001	enumerated type declaration	Clause 6.2.4	m	y
22	Syn_060204_enumerated_type_and_values_002	enumerated type declaration with user-assigned values	Clause 6.2.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
23	Syn_060204_enumerated_type_and_values_003	constant as user-assigned enumerated values	Clause 6.2.4	m	y
24	Syn_060204_enumerated_type_and_values_004	expression as user-assigned enumerated value	Clause 6.2.4	m	y

## 5.33. Unions

Table 32. Unions

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Syn_06020503_nested_type_definition_for_field_types_001	union type declaration	Clause 6.2.5	m	y
2	NegSem_060205_top_level_001	assignment notation for union values with two items	Clause 6.2.5	m	y
3	NegSem_060205_top_level_002	assignment notation for union values with unknown alternative	Clause 6.2.5	m	y
4	NegSem_060205_top_level_003	``not used" symbol in union value notations	Clause 6.2.5	m	y
5	NegSem_060205_top_level_004	omit symbol in union value notations	Clause 6.2.5	m	y
6	NegSem_060205_top_level_005	value list notation used for union value definition	Clause 6.2.5	m	y
7	NegSyn_060205_top_level_001	union type declaration with two equal identifiers	Clause 6.2.5	m	y
8	Sem_060205_top_level_001	assignment notation for union values	Clause 6.2.5	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
9	Syn_060205_to_p_level_001	union type declaration	Clause 6.2.5	m	y
10	Syn_060205_to_p_level_002	union type declaration with single item	Clause 6.2.5	m	y

## 5.34. Referencing fields of a union type

Table 33. Referencing fields of a union type

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_06020501_referencing_fields_of_union_type_001	unknown union alternative in value dot notation	Clause 6.2.5.1	m	y
2	NegSem_06020501_referencing_fields_of_union_type_002	unknown union alternative in extended type reference	Clause 6.2.5.1	m	y
3	NegSem_06020501_referencing_fields_of_union_type_003	union alternative referencing itself	Clause 6.2.5.1	m	y
4	NegSem_06020501_referencing_fields_of_union_type_004	union alternative referencing indirectly itself	Clause 6.2.5.1	m	y
5	NegSem_06020501_referencing_fields_of_union_type_005	union alternative constraint passed through extended type reference	Clause 6.2.5.1	m	y
6	NegSem_06020501_referencing_fields_of_union_type_006	referencing not chosen alternative on right hand side of assignment	Clause 6.2.5.1	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
7	NegSem_06020501_referencing_fields_of_union_type_007	referencing alternative of uninitialized union on right hand side of assignment	Clause 6.2.5.1	m	y
8	NegSem_06020501_referencing_fields_of_union_type_008	referencing alternative of omitted union on right hand side of assignment	Clause 6.2.5.1	m	y
9	Sem_06020501_referencing_fields_of_union_type_001	ensure that union is initialized by dot notation	Clause 6.2.5.1	m	y
10	Sem_06020501_referencing_fields_of_union_type_002	union alternative in extended type reference	Clause 6.2.5.1	m	y
11	Sem_06020501_referencing_fields_of_union_type_003	union constraint not applied to extended type reference to its item	Clause 6.2.5.1	m	y
12	Sem_06020501_referencing_fields_of_union_type_004	referencing alternative on left hand side of assignment	Clause 6.2.5.1	m	y
13	Sem_06020501_referencing_fields_of_union_type_005	referencing nested alternative on left hand side of assignment	Clause 6.2.5.1	m	y
14	Sem_06020501_referencing_fields_of_union_type_006	referencing field of structured alternative on left hand side of assignment	Clause 6.2.5.1	m	y
15	Sem_06020501_referencing_fields_of_union_type_007	union is initialized by anytype dot notation	Clause 6.2.5.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
16	Sem_06020501_referencing_fields_of_union_type_008	union is initialized by anytype dot notation	Clause 6.2.5.1	m	y

## 5.35. Option and union

Table 34. Option and union

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSyn_06020502_option_and_union_001	referencing alternative on left hand side of assignment	Clause 6.2.5.2	m	y

## 5.36. Anytype

Table 35. Anytype

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_060206_anytype_001	ensure that after redeclaration of an anytype value the old type and value are lost	Clause 6.2.6	m	y
2	NegSem_060206_anytype_002	Ensure that anytype can not be address type if not explicitly declared in the module	Clause 6.2.6	m	y
3	NegSyn_060206_anytype_001	ensure that anytype can not be a default type	Clause 6.2.6	m	n
4	NegSyn_060206_anytype_002	ensure that anytype cannot be port type	Clause 6.2.6	m	y
5	NegSyn_060206_anytype_003	ensure that component type not allowed for anytype	Clause 6.2.6	m	n
6	Sem_060206_anytype_001	ensure that anytype comprise integer data type	Clause 6.2.6	m	y
7	Sem_060206_anytype_002	ensure that anytype comprise float data type	Clause 6.2.6	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
8	Sem_060206_a nytype_003	ensure that anytype comprise boolean data type	Clause 6.2.6	m	y
9	Sem_060206_a nytype_004	ensure that anytype comprise verdicttype data type	Clause 6.2.6	m	y
10	Sem_060206_a nytype_005	ensure that anytype comprise bitstring and hexstring data type	Clause 6.2.6	m	y
11	Sem_060206_a nytype_006	ensure that ensure that anytype comprise octetstring and charstring	Clause 6.2.6	m	y
12	Sem_060206_a nytype_007	ensure that ensure that anytype comprise universal charstring	Clause 6.2.6	m	y
13	Sem_060206_a nytype_008	ensure that anytype is a valid value inside an union	Clause 6.2.6	m	y
14	Sem_060206_a nytype_009	ensure that record values can be anytype	Clause 6.2.6	m	y
15	Sem_060206_a nytype_010	ensure that anytype can be an enum type	Clause 6.2.6	m	y
16	Sem_060206_a nytype_011	ensure that anytype can have an set value and set value can be anytype	Clause 6.2.6	m	y
17	Sem_060206_a nytype_012	ensure that redeclaration of an anytype value works properly	Clause 6.2.6	m	y
18	Sem_060206_a nytype_013	ensure that address type is included to anytype	Clause 6.2.6	m	y
19	Sem_060206_a nytype_014	ensure that anytype can be record type	Clause 6.2.6	m	y
20	Sem_060206_a nytype_015	ensure that anytype can act as a set type	Clause 6.2.6	m	y
21	Sem_060206_a nytype_016	ensure that anytype can act as an union	Clause 6.2.6	m	y
22	Sem_060206_a nytype_017	ensure that anytype can comprise array type	Clause 6.2.6	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
23	Sem_060206_a nytype_018	ensure that anytype can comprise set of and record of types	Clause 6.2.6	m	y
24	Sem_060206_a nytype_019	ensure that anytype can be imported from another module	Clause 6.2.6	m	y

## 5.37. Arrays

Table 36. Arrays

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_0602 07_arrays_001	ensure that the value limitation is correctly handled within array	Clause 6.2.7	m	y
2	NegSem_0602 07_arrays_002	ensure that the inner type referencing is correctly handled	Clause 6.2.7	m	y
3	NegSem_0602 07_arrays_003	negative index applied to an array on the right hand side of an assignment	Clause 6.2.7	m	y
4	NegSem_0602 07_arrays_004	negative index applied to an array on the left hand side of an assignment	Clause 6.2.7	m	y
5	NegSem_0602 07_arrays_005	wrong index type applied to an array on the right hand side of an assignment	Clause 6.2.7	m	y
6	NegSem_0602 07_arrays_006	wrong index type applied to an array on the left hand side of an assignment	Clause 6.2.7	m	y
7	NegSem_0602 07_arrays_007	array index greater than the upper bound (left-hand side)	Clause 6.2.7	m	y
8	NegSem_0602 07_arrays_008	wrong index type applied to an array on the right hand side of an assignment	Clause 6.2.7	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
9	NegSem_0602 07_arrays_009	verify than an error is generated when sending a partially initialized array	Clause 6.2.7	m	y
10	NegSem_0602 07_arrays_010	ensure that the value limitation is correctly handled within array	Clause 6.2.7	m	y
11	NegSem_0602 07_arrays_011	runtime resolved constant in array type declaration	Clause 6.2.7	m	y
12	NegSem_0602 07_arrays_012	runtime resolved constant in array variable declaration	Clause 6.2.7	m	y
13	NegSem_0602 07_arrays_013	variable in array variable declaration	Clause 6.2.7	m	y
14	NegSem_0602 07_arrays_014	modulepar in array variable declaration	Clause 6.2.7	m	y
15	NegSem_0602 07_arrays_015	zero dimension array	Clause 6.2.7	m	y
16	NegSem_0602 07_arrays_016	array with negative dimension	Clause 6.2.7	m	y
17	NegSem_0602 07_arrays_017	zero in array dimension (range notation)	Clause 6.2.7	m	n
18	NegSem_0602 07_arrays_018	negative value in array dimension (range notation)	Clause 6.2.7	m	n
19	NegSem_0602 07_arrays_019	float instead of integer in array dimension	Clause 6.2.7	m	y
20	NegSem_0602 07_arrays_020	integer array with too many items as multidimensional array index	Clause 6.2.7	m	y
21	NegSem_0602 07_arrays_021	variable-size record of integer as multidimensional array index	Clause 6.2.7	m	y
22	NegSem_0602 07_arrays_022	using lower than allowed custom array index on the right hand side of assignments	Clause 6.2.7	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
23	NegSem_060207_arrays_023	using lower than allowed custom array index on the left hand side of assignments	Clause 6.2.7	m	y
24	NegSem_060207_arrays_024	using greater than allowed custom array index on the right hand side of assignments	Clause 6.2.7	m	y
25	NegSem_060207_arrays_025	using greater than allowed custom array index on the left hand side of assignments	Clause 6.2.7	m	y
26	NegSem_060207_arrays_026	referencing uninitialized array element on the right hand side of assignments	Clause 6.2.7	m	y
27	NegSem_060207_arrays_027	referencing element of uninitialized arrays on the right hand side of assignments	Clause 6.2.7	m	y
28	NegSem_060207_arrays_028	referencing element of omitted arrays on the right hand side of assignments	Clause 6.2.7	m	y
29	NegSyn_060207_arrays_001	ensure that array cannot contain an empty assignment	Clause 6.2.7	m	y
30	NegSyn_060207_arrays_002	ensure that array field cannot contain an empty index	Clause 6.2.7	m	y
31	NegSyn_060207_arrays_003	ensure that array field cannot contain an empty index	Clause 6.2.7	m	y
32	NegSyn_060207_arrays_004	infinity in array variable dimension	Clause 6.2.7	m	y
33	NegSyn_060207_arrays_005	arrays upper value shall not be lesser than the corresponding lower value	Clause 6.2.7	m	y
34	Sem_060207_arrays_001	verify that value list notation can be used for an array	Clause 6.2.7	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
35	Sem_060207_arrays_002	verify assignment of explicitly identified elements to arrays	Clause 6.2.7	m	n
36	Sem_060207_arrays_003	verify handling of missing elements in assignment notation for arrays	Clause 6.2.7	m	y
37	Sem_060207_arrays_004	verify handling of missing and ignored elements during an array re-assignment	Clause 6.2.7	m	n
38	Sem_060207_arrays_005	verify handling of value list assignment used for initialization of arrays	Clause 6.2.7	m	y
39	Sem_060207_arrays_006	verify handling of value list assignment used for update of arrays	Clause 6.2.7	m	y
40	Sem_060207_arrays_007	verify handling of index notation applied to array on right-hand side	Clause 6.2.7	m	y
41	Sem_060207_arrays_008	verify handling of index notation applied to array on left-hand side	Clause 6.2.7	m	y
42	Sem_060207_arrays_009	verify the first element of an array is accessible by an index notation	Clause 6.2.3.2	m	y
43	Sem_060207_arrays_010	verify that arrays can be used to specify record of type and they are compatible	Clause 6.2.7	m	y
44	Sem_060207_arrays_011	index notation applied to omitted array field on left hand side of assignment	Clause 6.2.7	m	y
45	Sem_060207_arrays_012	referencing element of uninitialized array (left-hand side)	Clause 6.2.7	m	y
46	Sem_060207_arrays_013	ensure that the two dimensional array type referencing is correctly handled	Clause 6.2.7	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
47	Sem_060207_arrays_014	verify assignment of explicitly identified elements to two dimensional array	Clause 6.2.7	m	y
48	Sem_060207_arrays_015	constant expression in array dimension	Clause 6.2.7	m	y
49	Sem_060207_arrays_016	predefined function in array dimension	Clause 6.2.7	m	y
50	Sem_060207_arrays_017	integer array as multidimensional array index	Clause 6.2.7	m	y
51	Sem_060207_arrays_018	fixed-size record of integer as multidimensional array index	Clause 6.2.7	m	y
52	Sem_060207_arrays_019	integer array as multidimensional array index (less items than dimension count)	Clause 6.2.7	m	y
53	Sem_060207_arrays_020	using custom array index on the right hand side of assignments	Clause 6.2.7	m	y
54	Sem_060207_arrays_021	using custom array index on the left hand side of assignments	Clause 6.2.7	m	y
55	Sem_060207_arrays_022	using less indexes than array dimensions on the right hand side of assignments	Clause 6.2.7	m	y
56	Sem_060207_arrays_023	using less indexes than array dimensions on the left hand side of assignments	Clause 6.2.7	m	y
57	Syn_060207_arrays_001	array specified in variable declaration	Clause 6.2.7	m	y
58	Syn_060207_arrays_002	multidimensional array type declaration	Clause 6.2.7	m	y
59	Syn_060207_arrays_003	multidimensional array specified in variable declaration	Clause 6.2.7	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
60	Syn_060207_arrays_004	array type dimension specified as a range	Clause 6.2.7	m	y
61	Syn_060207_arrays_005	multiple array type dimensions specified as a range	Clause 6.2.7	m	y
62	Syn_060207_arrays_006	array variable dimension specified as a range	Clause 6.2.7	m	y
63	Syn_060207_arrays_007	multiple array variable dimensions specified as a range	Clause 6.2.7	m	y

## 5.38. The default type

Table 37. The default type

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_060208_default_type_001	verify than a reference to an activated default can be assigned to a default variable	Clause 6.2.8	m	y
2	Sem_060208_default_type_002	verify than <code>null</code> value can be assigned to a default variable	Clause 6.2.8	m	y
3	Sem_060208_default_type_003	verify than existing default references can be assigned	Clause 6.2.8	m	y

## 5.39. Communication port types

Table 38. Communication port types

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_060209_CommunicationPortTypes_001	Restriction of port definitions are appropriately handles	Clause 6.2.9	m	n
2	NegSem_060209_CommunicationPortTypes_002	Restriction of port definitions are appropriately handles	Clause 6.2.9	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
3	NegSem_060209_CommunicationPortTypes_003	Restriction of port definitions are appropriately handles	Clause 6.2.9	m	n
4	NegSem_060209_CommunicationPortTypes_004	Verify that an error is generated when a message port type definition contains no message types	Clause 6.2.9	m	y
5	NegSem_060209_CommunicationPortTypes_005	Verify that an error is generated when a procedure port type definition contains no signatures	Clause 6.2.9	m	y
6	NegSem_060209_CommunicationPortTypes_006	Verify that an error is generated when a signature port definition contains multiple <b>address</b> clauses	Clause 6.2.9	m	n
7	NegSem_060209_CommunicationPortTypes_007	Verify that an error is generated when a signature port definition contains multiple <b>map</b> clauses	Clause 6.2.9	m	n
8	NegSem_060209_CommunicationPortTypes_008	Verify that an error is generated when a signature port definition contains multiple <b>unmap</b> clauses	Clause 6.2.9	m	n
9	Sem_060209_CommunicationPortTypes_004	<b>Map</b> and <b>unmap</b> param and local port address are allowed in a testcase block	Clause 6.2.9	m	n
10	Sem_060209_CommunicationPortTypes_005	Parameter <b>MessageType</b> of the port shall be data type	Clause 6.2.9	m	n
11	Syn_060209_CommunicationPortTypes_001	Message-based ports are accepted.	Clause 6.2.9	m	y
12	Syn_060209_CommunicationPortTypes_002	Message-based ports with address are accepted.	Clause 6.2.9	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
13	Syn_060209_CommunicationPortTypes_003	Verify that it is possible to define procedure-based port types	Clause 6.2.9	m	y
14	Syn_060209_CommunicationPortTypes_004	Procedure-based ports with address are accepted	Clause 6.2.9	m	n
15	Syn_060209_CommunicationPortTypes_005	Map param is accepted by the port definition.	Clause 6.2.9	m	n
16	Syn_060209_CommunicationPortTypes_006	Unmap param is accepted by the port definition.	Clause 6.2.9	m	n
17	Syn_060209_CommunicationPortTypes_007	Complex port definition are accepted.	Clause 6.2.9	m	n
18	Syn_060209_CommunicationPortTypes_008	Procedure-base port type definition can contain map parameter definition	Clause 6.2.9	m	n
19	Syn_060209_CommunicationPortTypes_009	Procedure-base port type definition can contain unmap parameter definition	Clause 6.2.9	m	n
20	Syn_060209_CommunicationPortTypes_010	Complex procedure-based port type definition are accepted	Clause 6.2.9	m	n

## 5.40. Component types

Table 39. Component types

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSyn_060210_ReuseofComponentTypes_001	Cyclic extension is not allowed	Clause 6.2.10	m	y
2	NegSyn_060210_ReuseofComponentTypes_002	Extending a component that occurs name clash is not allowed	Clause 6.2.10	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
3	NegSyn_060210_ReuseofComponentTypes_003	Extending a component that occurs name clash is not allowed	Clause 6.2.10	m	y
4	Sem_060210_ReuseofComponentTypes_001	Extending a component with another component works properly	Clause 6.2.10	m	y
5	Sem_060210_ReuseofComponentTypes_002	Extending a component with several other component works properly	Clause 6.2.10	m	y
6	Sem_060210_ReuseofComponentTypes_003	Extending a component with and extended component works properly	Clause 6.2.10	m	y

## 5.41. Addressing entities inside the SUT

Table 40. Addressing entities inside the SUT

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_060212_AddressingEntitiesInsideSut_001	Ensure right type checking for address types in ports	Clause 6.2.12	m	n
2	NegSem_060212_AddressingEntitiesInsideSut_002	Address type cannot be used in a from part of <b>receive</b> operation with connected ports	Clause 6.2.12	m	n
3	NegSem_060212_AddressingEntitiesInsideSut_003	Address type cannot be used in a sender part of <b>receive</b> operation with connected ports	Clause 6.2.12	m	n
4	NegSem_060212_AddressingEntitiesInsideSut_004	Address type cannot be used in a to part of <b>sender</b> operation with connected ports	Clause 6.2.12	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
5	Sem_060212_AddressingEntitiesInsideSut_001	Ensure <b>null</b> assignment is accepted for addresses	Clause 6.2.12	m	n
6	Sem_060212_AddressingEntitiesInsideSut_002	The right port address is used	Clause 6.2.12	m	n

## 5.42. Subtyping of structured types

Table 41. Subtyping of structured types

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_06021301_LengthSubtyping_001	The length subtyping check for `record of' or `set of' types	Clause 6.2.13.1	m	y
2	NegSem_06021301_LengthSubtyping_002	The length subtyping check for `record of' or `set of' types	Clause 6.2.13.1	m	y
3	NegSem_06021301_LengthSubtyping_003	The length subtyping check for `record of' or `set of' types	Clause 6.2.13.1	m	y
4	NegSem_06021301_LengthSubtyping_004	The length subtyping check for `record of' or `set of' types	Clause 6.2.13.1	m	y
5	NegSem_06021301_LengthSubtyping_005	The length subtyping check for `record of' or `set of' types	Clause 6.2.13.1	m	y
6	NegSem_06021301_LengthSubtyping_006	The length subtyping check for `record of' or `set of' types	Clause 6.2.13.1	m	y
7	Syn_06021301_LengthSubtyping_001	The length subtyping check for `record of' or `set of' types	Clause 6.2.13.1	m	y
8	Syn_06021301_LengthSubtyping_002	The length subtyping check for `record of' or `set of' types	Clause 6.2.13.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
9	NegSem_06021302_ListSubtyping_001	ensure that list subtyping check for record types is properly handled	Clause 6.2.13.2	m	y
10	NegSem_06021302_ListSubtyping_002	ensure that list subtyping check for record types is properly handled	Clause 6.2.13.2	m	y
11	Sem_06021302_ListSubtyping_001	ensure that list subtyping check for record types is properly handled	Clause 6.2.13.2	m	y
12	Sem_06021302_ListSubtyping_002	ensure that list subtyping check for record types is properly handled	Clause 6.2.13.2	m	n
13	Sem_06021302_ListSubtyping_003	ensure that list subtyping check for record types is properly handled	Clause 6.2.13.2	m	n

## 5.43. Type compatibility of non-structured types

Table 42. Type compatibility of non-structured types

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_060301_non_structured_types_001	The IUT correctly handles assignments from incompatible type ranges 1	Clause 6.3.1	m	n
2	NegSem_060301_non_structured_types_002	The IUT correctly handles assignments from incompatible type ranges 2	Clause 6.3.1	m	n
3	NegSem_060301_non_structured_types_003	The IUT correctly handles assignments from incompatible type ranges 3	Clause 6.3.1	m	n
4	NegSem_060301_non_structured_types_004	The IUT correctly handles assignments from incompatible type ranges 4	Clause 6.3.1	m	n

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
5	NegSem_060301_non_structured_types_005	The IUT correctly handles assignments from incompatible type ranges	Clause 6.3.1	m	n
6	NegSem_060301_non_structured_types_006	The IUT correctly handles assignments from incompatible type ranges	Clause 6.3.1	m	n
7	NegSem_060301_non_structured_types_007	The IUT correctly handles assignments from compatible size restrictions	Clause 6.3.1	m	y
8	NegSem_060301_non_structured_types_008	The IUT correctly handles assignments from compatible size restrictions	Clause 6.3.1	m	y
9	NegSem_060301_non_structured_types_009	The IUT correctly handles assignments from compatible size restrictions	Clause 6.3.1	m	n
10	NegSem_060301_non_structured_types_010	The IUT correctly handles assignments from compatible size restrictions	Clause 6.3.1	m	n
11	NegSem_060301_non_structured_types_011	The IUT correctly handles assignments from compatible size restrictions	Clause 6.3.1	m	n
12	NegSem_060301_non_structured_types_012	The IUT correctly handles assignments from compatible size restrictions	Clause 6.3.1	m	n
13	Sem_060301_non_structured_types_001	The IUT correctly handles assignments from compatible type ranges	Clause 6.3.1	m	y
14	Sem_060301_non_structured_types_002	The IUT correctly handles assignments from compatible size restrictions	Clause 6.3.1	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
15	Sem_060301_n on_structured _types_003	The IUT correctly handles assignments from compatible type ranges	Clause 6.3.1	m	y
16	Sem_060301_n on_structured _types_004	The IUT correctly handles assignments from compatible type ranges	Clause 6.3.1	m	y

## 5.44. Type compatibility of structured types

Table 43. Type compatibility of structured types

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_0603 02_structured_ types_002	The IUT rejects assignments from incompatible types or type ranges	Clause 6.3.2	m	y
2	NegSem_0603 02_structured_ types_003	The IUT rejects assignments from incompatible types or type ranges	Clause 6.3.2	m	n
3	NegSem_0603 02_structured_ types_004	The IUT rejects assignments from incompatible types or type ranges	Clause 6.3.2	m	y
4	NegSem_0603 02_structured_ types_005	The IUT rejects assignments from incompatible types or type ranges	Clause 6.3.2	m	n
5	NegSem_0603 02_structured_ types_006	The IUT rejects assignments from incompatible types or type ranges	Clause 6.3.2	m	n
6	NegSem_0603 02_structured_ types_007	The IUT rejects assignments from incompatible types or type ranges	Clause 6.3.2	m	n
7	NegSem_0603 02_structured_ types_008	The IUT rejects assignments from incompatible types or type ranges	Clause 6.3.2	m	n

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
8	NegSem_0603_02_structured_types_009	The IUT rejects assignments from incompatible types or type ranges	Clause 6.3.2	m	y
9	NegSem_0603_02_structured_types_010	The IUT rejects assignments from incompatible types or type ranges	Clause 6.3.2	m	y
10	NegSem_0603_02_structured_types_011	The IUT rejects assignments from structures having incompatible anytypes	Clause 6.3.2	m	y
11	NegSem_0603_02_structured_types_012	The IUT rejects assignments having mismatch between undefined and omitted elements	Clause 6.3.2	m	n
12	NegSem_0603_02_structured_types_013	The IUT rejects assignments having mismatch between undefined and omitted elements	Clause 6.3.2	m	n
13	NegSem_0603_02_structured_types_014	The IUT rejects assignments between incompatible structures	Clause 6.3.2	m	n
14	NegSem_0603_02_structured_types_015	The IUT rejects assignments between incompatible structures	Clause 6.3.2	m	n
15	NegSem_0603_02_structured_types_016	The IUT rejects assignments between incompatible structures	Clause 6.3.2	m	y
16	NegSem_0603_02_structured_types_017	The IUT rejects assignments between incompatible structures	Clause 6.3.2	m	n
17	NegSem_0603_02_structured_types_018	The IUT rejects assignments between incompatible structures	Clause 6.3.2	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
18	NegSem_060302_structured_types_019	The IUT correctly handles assignments from structures having compatible types and lengths	Clause 6.3.2	m	n
19	Sem_060302_structured_types_001	The IUT correctly handles assignments from structures having compatible types and type ranges	Clause 6.3.2	m	y
20	Sem_060302_structured_types_002	The IUT correctly handles assignments from structures having compatible types and lengths	Clause 6.3.2	m	y
21	Sem_060302_structured_types_003	The IUT correctly handles assignments from structures having compatible types and type ranges	Clause 6.3.2	m	y
22	Sem_060302_structured_types_004	The IUT correctly handles assignments from structures having compatible anytypes	Clause 6.3.2	m	y
23	Sem_060302_structured_types_005	The IUT correctly handles assignments from structures having compatible types and type ranges	Clause 6.3.2	m	y
24	Sem_060302_structured_types_006	The IUT correctly handles assignments from structures having compatible types and lengths	Clause 6.3.2	m	n

## 5.45. Type compatibility of enumerated types

Table 44. Type compatibility of enumerated types

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_0603_02_structured_types_001	Reject assignment of other enumerated types since they are only compatible to synonym types	Clause 6.3.2.1	m	y

## 5.46. Type compatibility of component types

Table 45. Type compatibility of component types

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_0603_03_component_types_001	The IUT correctly handles component incompatibility due to differing list of constant definitions	Clause 6.3.3	m	y
2	NegSem_0603_03_component_types_002	The IUT correctly handles component incompatibility due to differing constant types having same name	Clause 6.3.3	m	y
3	NegSem_0603_03_component_types_003	Ensure that the IUT correctly handles component compatibility of different <b>runs on</b> clauses	Clause 6.3.3	m	y
4	NegSem_0603_03_component_types_004	Ensure that the IUT correctly handles component compatibility of <b>mtc</b> and <b>runs on</b> clause	Clause 6.3.3	m	y
5	NegSem_0603_03_component_types_005	Ensure that the IUT correctly handles component compatibility of <b>system</b> and <b>runs on</b> clause	Clause 6.3.3	m	y
6	NegSem_0603_03_component_types_006	Ensure that the IUT correctly handles component compatibility of different <b>system</b> clauses	Clause 6.3.3	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
7	Sem_060303_component_types_001	The IUT correctly handles assignments from structures having compatible components	Clause 6.3.3	m	y
8	Sem_060303_component_types_002	The IUT correctly handles assignments from structures having compatible components	Clause 6.3.3	m	y
9	Sem_060303_component_types_003	Ensure that the IUT correctly handles component compatibility of different <b>runs on</b> clauses	Clause 6.3.3	m	n
10	Sem_060303_component_types_004	Ensure that the IUT correctly handles component compatibility of <b>mtc</b> and <b>runs on</b> clause	Clause 6.3.3	m	y
11	Sem_060303_component_types_005	Ensure that the IUT correctly handles component compatibility of <b>system</b> and <b>runs on</b> clause	Clause 6.3.3	m	y
12	Sem_060303_component_types_006	Ensure that the IUT correctly handles component compatibility of different <b>system</b> clauses	Clause 6.3.3	m	y

## 5.47. Type compatibility of communication operations

Table 46. Type compatibility of communication operations

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_060304_compatibility_of_communication_operations_001	compatible but not strongly typed value in <b>send</b> operation	Clause 6.3.4	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
2	NegSem_060304_compatibility_of_communication_operations_002	compatible but not strongly typed value in <b>receive</b> operation	Clause 6.3.4	m	n
3	NegSem_060304_compatibility_of_communication_operations_003	compatible but not strongly typed value in <b>raise</b> operation	Clause 6.3.4	m	n
4	NegSem_060304_compatibility_of_communication_operations_004	compatible but not strongly typed value in <b>raise</b> operation	Clause 6.3.4	m	n
5	NegSem_060304_compatibility_of_communication_operations_005	compatible but not strongly typed value in <b>trigger</b> operation	Clause 6.3.4	m	n

## 5.48. Expression

Table 47. Expression

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_07_toplevel_001	function without <b>return</b> clause in expression	Clause 7	m	y
2	NegSem_07_toplevel_002	template used as expression operand	Clause 7	m	y
3	NegSem_07_toplevel_003	uninitialized value in an expression	Clause 7	m	y
4	NegSem_07_toplevel_004	partially initialized value in an expression	Clause 7	m	n
5	NegSem_07_toplevel_005	null value in an expression	Clause 7	m	n
6	Sem_07_toplevel_001	expression composed of several expressions	Clause 7	m	y
7	Sem_07_toplevel_002	compound expression as an operand of array type	Clause 7	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
8	Sem_07_toplev el_003	compound expression as an operand of record type	Clause 7	m	y
9	Sem_07_toplev el_004	compound expression as an operand of record-of type	Clause 7	m	y
10	Sem_07_toplev el_005	compound expression as an operand of set-of type	Clause 7	m	y
11	Sem_07_toplev el_006	element of partially initialized structured value	Clause 7	m	y
12	Sem_07_toplev el_007	compound expression as an operand of set-of type	Clause 7	m	y
13	Sem_07_toplev el_008	compound expression as an operand of set-of type	Clause 7	m	y
14	Sem_07_toplev el_009	compound expression as an operand of set type	Clause 7	m	y

## 5.49. Arithmetic operators

Table 48. Arithmetic operators

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
1	NegSem_0701 01_Arithmetic Operators_001	Arithmetic operators are for integer and float values	Clause 7.1.1	m	y
2	NegSem_0701 01_Arithmetic Operators_002	Arithmetic operators can handle same type of variables	Clause 7.1.1	m	y
3	NegSem_0701 01_Arithmetic Operators_003	Mod arithmetic operator can handle integer variables	Clause 7.1.1	m	y
4	NegSem_0701 01_Arithmetic Operators_004	Rem arithmetic operator can handle integer variables	Clause 7.1.1	m	y
5	NegSem_0701 01_Arithmetic Operators_008	In $x \bmod y$ arithmetic operator $y$ is non-zero positive number	Clause 7.1.1	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
6	NegSem_070101_ArithmeticOperators_009	In x rem y arithmetic operator y is non-zero positive number	Clause 7.1.1	m	y
7	NegSem_070101_ArithmeticOperators_010	In x rem y arithmetic operator y is non-zero positive number	Clause 7.1.1	m	y
8	Sem_070101_ArithmeticOperators_001	The addition of two integer variables is evaluated correctly.	Clause 7.1.1	m	y
9	Sem_070101_ArithmeticOperators_002	The addition of multiple integer variables is evaluated correctly.	Clause 7.1.1	m	y
10	Sem_070101_ArithmeticOperators_003	The addition of two integer variables is evaluated correctly when the expression contains a negative value.	Clause 7.1.1	m	y
11	Sem_070101_ArithmeticOperators_004	The subtraction of two integer variables is evaluated correctly.	Clause 7.1.1	m	y
12	Sem_070101_ArithmeticOperators_005	The subtraction of multiple integer variables is evaluated correctly.	Clause 7.1.1	m	y
13	Sem_070101_ArithmeticOperators_006	The multiplication of two integer variables is evaluated correctly.	Clause 7.1.1	m	y
14	Sem_070101_ArithmeticOperators_007	The multiplication of multiple integer variables is evaluated correctly.	Clause 7.1.1	m	y
15	Sem_070101_ArithmeticOperators_008	The division of two integer variables is evaluated correctly.	Clause 7.1.1	m	y
16	Sem_070101_ArithmeticOperators_009	The division of multiple integer variables is evaluated correctly.	Clause 7.1.1	m	y
17	Sem_070101_ArithmeticOperators_010	The application of the modulo operator on integer variables is evaluated correctly when the remainder is zero.	Clause 7.1.1	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
18	Sem_070101_ArithmeticOperators_011	The application of the modulo operator on integer variables is evaluated correctly when the integer value is smaller than the modulo value.	Clause 7.1.1	m	y
19	Sem_070101_ArithmeticOperators_012	The application of the modulo operator on integer variables is evaluated correctly when the integer value greater than the modulo value.	Clause 7.1.1	m	y
20	Sem_070101_ArithmeticOperators_013	The application of the modulo operator on integer variables is evaluated correctly when two consecutive modulo operators are applied.	Clause 7.1.1	m	y
21	Sem_070101_ArithmeticOperators_014	The application of the modulo operator on integer variables is evaluated correctly when the operand is a negative integer.	Clause 7.1.1	m	y
22	Sem_070101_ArithmeticOperators_015	The application of the remainder operator on integer variables is evaluated correctly when the operand is a negative integer.	Clause 7.1.1	m	y
23	Sem_070101_ArithmeticOperators_016	The application of the remainder operator on integer variables is evaluated correctly when the operand is a negative integer.	Clause 7.1.1	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
24	Sem_070101_ArithmeticOperators_017	The consecutive application of the remainder operator and the modulo operator on integer variables is evaluated correctly.	Clause 7.1.1	m	y
25	Sem_070101_ArithmeticOperators_018	Operator combinations and the modulo operator on integer variables is evaluated correctly.	Clause 7.1.1	m	y
26	Sem_070101_ArithmeticOperators_019	The addition operator works on float variables.	Clause 7.1.1	m	y
27	Sem_070101_ArithmeticOperators_020	The subtraction operator works on float variables.	Clause 7.1.1	m	y
28	Sem_070101_ArithmeticOperators_021	The multiplication operator works on float variables.	Clause 7.1.1	m	y
29	Sem_070101_ArithmeticOperators_022	The division operator works on float variables.	Clause 7.1.1	m	y
30	Sem_070101_ArithmeticOperators_023	The combination of different operators works on float variables.	Clause 7.1.1	m	y
31	Sem_070101_ArithmeticOperators_024	The operator precedence is evaluated correctly.	Clause 7.1.1	m	y
32	Sem_070101_ArithmeticOperators_025	The operator precedence is evaluated correctly.	Clause 7.1.1	m	y
33	Sem_070101_ArithmeticOperators_026	The operator precedence is evaluated correctly.	Clause 7.1.1	m	y
34	Sem_070101_ArithmeticOperators_027	Arithmetic operators can handle special float values	Clause 7.1.1	m	y
35	Sem_070101_ArithmeticOperators_028	Arithmetic operators can handle special float values	Clause 7.1.1	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
36	Sem_070101_A rithmeticOper ators_029	Arithmetic operators can handle special float values	Clause 7.1.1	m	y
37	Sem_070101_A rithmeticOper ators_030	Arithmetic operators can handle special float values	Clause 7.1.1	m	y
38	Sem_070101_A rithmeticOper ators_031	Arithmetic operators can handle special float values	Clause 7.1.1	m	y
39	Sem_070101_A rithmeticOper ators_032	Arithmetic operators can handle special float values	Clause 7.1.1	m	y
40	Sem_070101_A rithmeticOper ators_033	Arithmetic operators can handle special float values	Clause 7.1.1	m	y
41	Sem_070101_A rithmeticOper ators_034	Arithmetic operators can handle special float values	Clause 7.1.1	m	y
42	Sem_070101_A rithmeticOper ators_035	Arithmetic operators can handle special float values	Clause 7.1.1	m	y
43	Sem_070101_A rithmeticOper ators_036	Arithmetic operators can handle special float values	Clause 7.1.1	m	y
44	Sem_070101_A rithmeticOper ators_037	Arithmetic operators can handle special float values	Clause 7.1.1	m	y
45	Sem_070101_A rithmeticOper ators_038	Arithmetic operators can handle special float values	Clause 7.1.1	m	y
46	Sem_070101_A rithmeticOper ators_039	Arithmetic operators can handle special float values	Clause 7.1.1	m	y
47	Sem_070101_A rithmeticOper ators_040	Arithmetic operators can handle special float values	Clause 7.1.1	m	y
48	Sem_070101_A rithmeticOper ators_041	Arithmetic operators can handle special float values	Clause 7.1.1	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
49	Sem_070101_A rithmeticOper ators_042	Arithmetic operators can handle special float values	Clause 7.1.1	m	y
50	Sem_070101_A rithmeticOper ators_043	Arithmetic operators can handle special float values	Clause 7.1.1	m	y
51	Sem_070101_A rithmeticOper ators_044	Arithmetic operators can handle special float values	Clause 7.1.1	m	y
52	Sem_070101_A rithmeticOper ators_045	Arithmetic operators can handle special float values	Clause 7.1.1	m	y
53	Sem_070101_A rithmeticOper ators_046	Arithmetic operators can handle special float values	Clause 7.1.1	m	y
54	Sem_070101_A rithmeticOper ators_047	Arithmetic operators can handle special float values	Clause 7.1.1	m	y
55	Sem_070101_A rithmeticOper ators_048	Arithmetic operators can handle special float values	Clause 7.1.1	m	y
56	Sem_070101_A rithmeticOper ators_049	Arithmetic operators can handle special float values	Clause 7.1.1	m	y
57	Sem_070101_A rithmeticOper ators_050	Arithmetic operators can handle special float values	Clause 7.1.1	m	y
58	Sem_070101_A rithmeticOper ators_051	Arithmetic operators can handle special float values	Clause 7.1.1	m	y
59	Syn_070101_A rithmeticOper ators_001	The addition of two integers in a constant is accepted.	Clause 7.1.1	m	y
60	Syn_070101_A rithmeticOper ators_002	The subtraction of two integers in a constant is accepted.	Clause 7.1.1	m	y
61	Syn_070101_A rithmeticOper ators_003	The multiplication of two integers in a constant is accepted.	Clause 7.1.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
62	Syn_070101_ArithmeticOperators_004	The division of two integers in a constant is accepted.	Clause 7.1.1	m	y
63	Syn_070101_ArithmeticOperators_005	The modulo operator on two integers is accepted.	Clause 7.1.1	m	y
64	Syn_070101_ArithmeticOperators_006	The remainder operator on two integers is accepted.	Clause 7.1.1	m	y
65	Syn_070101_ArithmeticOperators_007	Operator combinations on integers is accepted.	Clause 7.1.1	m	y
66	Syn_070101_ArithmeticOperators_008	The addition operator on float constants is accepted.	Clause 7.1.1	m	y
67	Syn_070101_ArithmeticOperators_009	The subtraction operator on float constants is accepted.	Clause 7.1.1	m	y
68	Syn_070101_ArithmeticOperators_010	The multiplication operator on float constants is accepted.	Clause 7.1.1	m	y
69	Syn_070101_ArithmeticOperators_011	The division operator on float constants is accepted.	Clause 7.1.1	m	y
70	Syn_070101_ArithmeticOperators_012	A combination of operators on float constants is accepted.	Clause 7.1.1	m	y

## 5.50. List operator

Table 49. List operator

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_070102_ListOperator_001	The list operator on bitstrings is evaluated correctly.	Clause 7.1.2	m	y
2	Sem_070102_ListOperator_002	The list operator on charstrings is evaluated correctly.	Clause 7.1.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
3	Sem_070102_ListOperator_003	The list operator on record of is evaluated correctly.	Clause 7.1.2	m	y
4	Sem_070102_ListOperator_004	The list operator on set of is evaluated correctly.	Clause 7.1.2	m	y
5	Sem_070102_ListOperator_005	The list operator on arrays is evaluated correctly.	Clause 7.1.2	m	n
6	Sem_070102_ListOperator_006	The list operator on record of is evaluated correctly.	Clause 7.1.2	m	y

## 5.51. Relational operators

Table 50. Relational operators

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_070101_ArithmeticOperators_051	The equal to operator on address with value <code>null</code> is evaluated correctly	Clause 7.1.3	m	n
2	Sem_070101_ArithmeticOperators_052	The not equal to operator on address with value <code>null</code> is evaluated correctly	Clause 7.1.3	m	n
3	NegSem_070103_RelationalOperators_001	The equals operator on records is evaluated correctly.	Clause 7.1.3	m	n
4	NegSem_070103_RelationalOperators_002	The equals operator on records is evaluated correctly.	Clause 7.1.3	m	y
5	NegSem_070103_RelationalOperators_003	The equals operator on records is evaluated correctly.	Clause 7.1.3	m	y
6	NegSem_070103_RelationalOperators_004	The equals operator on records is evaluated correctly.	Clause 7.1.3	m	y
7	NegSem_070103_RelationalOperators_005	The not equal to operator on address can not be evaluated if value is uninitialized.	Clause 7.1.3	m	n

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
8	NegSyn_070103_RelationalOperators_001	The greater operator on address can not be evaluated.	Clause 7.1.3	m	n
9	NegSyn_070103_RelationalOperators_002	The less operator on address can not be evaluated.	Clause 7.1.3	m	n
10	NegSyn_070103_RelationalOperators_003	The less or equal to operator on address can not be evaluated.	Clause 7.1.3	m	n
11	NegSyn_070103_RelationalOperators_004	The greater or equal to operator on address can not be evaluated.	Clause 7.1.3	m	n
12	Sem_070103_RelationalOperators_001	The equals operator on integers is evaluated correctly.	Clause 7.1.3	m	y
13	Sem_070103_RelationalOperators_002	The equals operator on floats is evaluated correctly.	Clause 7.1.3	m	y
14	Sem_070103_RelationalOperators_003	The equals operator on enumerations is evaluated correctly.	Clause 7.1.3	m	y
15	Sem_070103_RelationalOperators_004	The less than operator on integers is evaluated correctly.	Clause 7.1.3	m	y
16	Sem_070103_RelationalOperators_005	The less than operator on floats is evaluated correctly.	Clause 7.1.3	m	y
17	Sem_070103_RelationalOperators_006	The less than operator on enumerations is evaluated correctly.	Clause 7.1.3	m	y
18	Sem_070103_RelationalOperators_007	The less than or equal to operator on integers is evaluated correctly with differing values.	Clause 7.1.3	m	y
19	Sem_070103_RelationalOperators_008	The less than or equal to operator on integers is evaluated correctly with equal values.	Clause 7.1.3	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
20	Sem_070103_RelationalOperators_009	The less than or equal to operator on floats is evaluated correctly with differing values.	Clause 7.1.3	m	y
21	Sem_070103_RelationalOperators_010	The less than or equal to operator on floats is evaluated correctly with equal values.	Clause 7.1.3	m	y
22	Sem_070103_RelationalOperators_011	The less than or equal to operator on enumerations is evaluated correctly with differing values.	Clause 7.1.3	m	y
23	Sem_070103_RelationalOperators_012	The less than or equal to operator on enumerations is evaluated correctly with equal values.	Clause 7.1.3	m	y
24	Sem_070103_RelationalOperators_013	The greater than operator on integers is evaluated correctly.	Clause 7.1.3	m	y
25	Sem_070103_RelationalOperators_014	The less than operator on floats is evaluated correctly.	Clause 7.1.3	m	y
26	Sem_070103_RelationalOperators_015	The less than operator on enumerations is evaluated correctly.	Clause 7.1.3	m	y
27	Sem_070103_RelationalOperators_016	The greater than or equal to operator on integers is evaluated correctly with differing values.	Clause 7.1.3	m	y
28	Sem_070103_RelationalOperators_017	The greater than or equal to operator on integers is evaluated correctly with equal values.	Clause 7.1.3	m	y
29	Sem_070103_RelationalOperators_018	The greater than or equal to operator on floats is evaluated correctly with differing values.	Clause 7.1.3	m	y
30	Sem_070103_RelationalOperators_019	The greater than or equal to operator on floats is evaluated correctly with equal values.	Clause 7.1.3	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
31	Sem_070103_RelationalOperators_020	The less than or equal to operator on enumerations is evaluated correctly with differing values.	Clause 7.1.3	m	y
32	Sem_070103_RelationalOperators_021	The greater than or equal to operator on enumerations is evaluated correctly with equal values.	Clause 7.1.3	m	y
33	Sem_070103_RelationalOperators_022	The not equals operator on integers is evaluated correctly.	Clause 7.1.3	m	y
34	Sem_070103_RelationalOperators_023	The not equals operator on floats is evaluated correctly.	Clause 7.1.3	m	y
35	Sem_070103_RelationalOperators_024	The not equals operator on enumerations is evaluated correctly.	Clause 7.1.3	m	y
36	Sem_070103_RelationalOperators_025	The equals operator on sets is evaluated correctly.	Clause 7.1.3	m	y
37	Sem_070103_RelationalOperators_026	The equals operator on records is evaluated correctly.	Clause 7.1.3	m	y
38	Sem_070103_RelationalOperators_030	The equals operator on records is evaluated correctly.	Clause 7.1.3	m	y
39	Sem_070103_RelationalOperators_031	The equals operator on records is evaluated correctly.	Clause 7.1.3	m	y
40	Sem_070103_RelationalOperators_032	The equals operator on records is evaluated correctly.	Clause 7.1.3	m	y
41	Sem_070103_RelationalOperators_033	The equals operator on records is evaluated correctly.	Clause 7.1.3	m	y
42	Sem_070103_RelationalOperators_034	The equals operator on records is evaluated correctly.	Clause 7.1.3	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
43	Sem_070103_RelationalOperators_035	The equal to operator on address is evaluated correctly with equal values.	Clause 7.1.3	m	n
44	Sem_070103_RelationalOperators_036	The equal to operator on address is evaluated correctly with equal values.	Clause 7.1.3	m	y
45	Sem_070103_RelationalOperators_037	The not equal to operator on record type address is evaluated correctly.	Clause 7.1.3	m	n
46	Sem_070103_RelationalOperators_038	Less than operator evaluates correctly infinity special float	Clause 7.1.3	m	y
47	Sem_070103_RelationalOperators_039	Less than or equal to operator evaluates correctly infinity special float	Clause 7.1.3	m	y
48	Sem_070103_RelationalOperators_040	Greater than operator evaluates correctly -infinity special float	Clause 7.1.3	m	y
49	Sem_070103_RelationalOperators_041	Greater than or equal to operator evaluates correctly -infinity special float	Clause 7.1.3	m	y
50	Sem_070103_RelationalOperators_042	Equal to operator evaluates correctly -infinity special float	Clause 7.1.3	m	y
51	Sem_070103_RelationalOperators_043	Equal to operator evaluates correctly infinity special float	Clause 7.1.3	m	y
52	Sem_070103_RelationalOperators_044	Not equal to operator evaluates correctly infinity special float	Clause 7.1.3	m	y
53	Sem_070103_RelationalOperators_045	NaN special float is evaluated correctly in a relation.	Clause 7.1.3	m	y
54	Sem_070103_RelationalOperators_046	NaN special float is evaluated correctly in a relation.	Clause 7.1.3	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
55	Sem_070103_RelationalOperators_047	Infinity special float is evaluated correctly in a relation.	Clause 7.1.3	m	y
56	Sem_070103_RelationalOperators_048	anytypes can be compared	Clause 7.1.3	m	y
57	Sem_070103_RelationalOperators_049	anytypes can be compared	Clause 7.1.3	m	y
58	Sem_070103_RelationalOperators_050	the less than or equal to operator on enumerations is evaluated correctly with differing values	Clause 7.1.3	m	n

## 5.52. Logical operators

Table 51. Logical operators

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_070104_LogicalOperators_001	The boolean operator supports negation.	Clause 7.1.4	m	y
2	Sem_070104_LogicalOperators_002	The the and operator with true and false as operands work on boolean variables.	Clause 7.1.4	m	y

## 5.53. Bitwise operators

Table 52. Bitwise operators

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_070105_BitwiseOperators_001	The bitwise negation operator works as expected.	Clause 7.1.5	m	y
2	Sem_070105_BitwiseOperators_002	The bitwise negation operator works as expected on hexstrings.	Clause 7.1.5	m	y

## 5.54. Shift operators

Table 53. Shift operators

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_070106_S hiftOperators_001	The shift left operator works as expected on bitstrings.	Clause 7.1.6	m	y
2	Sem_070106_S hiftOperators_002	The shift left operator works as expected on hexstrings.	Clause 7.1.6	m	y
3	Sem_070106_S hiftOperators_003	The shift right operator works as expected on bitstrings.	Clause 7.1.6	m	y
4	Sem_070106_S hiftOperators_004	The shift right operator works as expected on hexstrings.	Clause 7.1.6	m	y

## 5.55. Rotate operators

Table 54. Rotate operators

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_070107_R otateOperator s_001	The rotate left operator works as expected on bitstrings.	Clause 7.1.7	m	y
2	Sem_070107_R otateOperator s_002	The rotate left operator works as expected on hexstrings.	Clause 7.1.7	m	y
3	Sem_070107_R otateOperator s_003	The rotate right operator works as expected on bitstrings.	Clause 7.1.7	m	y
4	Sem_070107_R otateOperator s_004	The rotate right operator works as expected on hexstrings.	Clause 7.1.7	m	y

## 5.56. Field references and list elements

Table 55. Field references and list elements

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_0702_FieldReferencesAndListElements_001	The IUT correctly handles field referencing	Clause 7.2	m	y
2	Sem_0702_FieldReferencesAndListElements_002	The IUT correctly handles field referencing	Clause 7.2	m	y

## 5.57. Definition of a module

Table 56. Definition of a module

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSyn_0801_DefinitionOfAModule_001	A module definition with multiple language specifications is rejected.	Clause 8.1	m	n
2	Syn_0801_DefinitionOfAModule_001	A ``plain" module definition is accepted.	Clause 8.1	m	y
3	Syn_0801_DefinitionOfAModule_002	A module definition with language specification is accepted.	Clause 8.1	m	y
4	Syn_0801_DefinitionOfAModule_003	A module definition with language and package is accepted.	Clause 8.1	m	n
5	Syn_0801_DefinitionOfAModule_004	A module definition with package and without language is accepted.	Clause 8.1	m	y
6	Syn_0801_DefinitionOfAModule_005	A module definition with ed4.3.1 language and package is accepted.	Clause 8.1	m	y
7	Syn_0801_DefinitionOfAModule_006	A module definition with ed4.4.1 language and package is accepted.	Clause 8.1	m	y
8	Syn_0801_DefinitionOfAModule_007	A module definition with ed4.5.1 language and package is accepted.	Clause 8.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
9	Syn_0801_DefinitionOfAModule_008	A module definition with ed4.6.1 language and package is accepted.	Clause 8.1	m	y
10	Syn_0801_DefinitionOfAModule_009	A module definition with ed4.7.1 language and package is accepted.	Clause 8.1	m	y
11	Syn_0801_DefinitionOfAModule_010	A module definition with ed4.8.1 language and package is accepted	Clause 8.1	m	y

## 5.58. Module definitions part

Table 57. Module definitions part

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Syn_0802_ModuleDefinitionsPart_001	A TypeDef module definition with public visibility is accepted.	Clause 8.2	m	y
2	Syn_0802_ModuleDefinitionsPart_002	A TypeDef module definition with private visibility is accepted.	Clause 8.2	m	y

## 5.59. Module parameters

Table 58. Module parameters

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_080201_ModuleParameters_001	A port, default or component types cannot be module parameters	Clause 8.2.1	m	y
2	NegSem_080201_ModuleParameters_002	A port, default or component types cannot be module parameters	Clause 8.2.1	m	n
3	NegSem_080201_ModuleParameters_003	A port, default or component types cannot be module parameters	Clause 8.2.1	m	n
4	NegSem_080201_ModuleParameters_004	Ensure that module parameters remain constant	Clause 8.2.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
5	NegSem_080201_ModuleParameters_005	A reference to plain module parameter with a default value delivers the default value unless it is overwritten	Clause 8.2.1	m	y
6	NegSem_080201_ModuleParameters_006	A reference to plain module parameter with a default value delivers the default value unless it is overwritten	Clause 8.2.1	m	y
7	NegSyn_080201_ModuleParameters_001	Module parameter can be declared within the module definition part only	Clause 8.2.1	m	y
8	NegSyn_080201_ModuleParameters_002	Module parameter can be declared within the module definition part only	Clause 8.2.1	m	y
9	Sem_080201_ModuleParameters_001	A reference to plain module parameter with a default value delivers the default value unless it is overwritten.	Clause 8.2.1	m	y
10	Syn_080201_ModuleParameters_001	Plain module parameters are accepted.	Clause 8.2.1	m	y
11	Syn_080201_ModuleParameters_002	Plain module parameters with default values are accepted.	Clause 8.2.1	m	y
12	Syn_080201_ModuleParameters_003	Plain module parameters with default values and visibility modifiers are accepted.	Clause 8.2.1	m	y

## 5.60. Groups of definitions

Table 59. Groups of definitions

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Syn_080202_GroupOfDefinitions_001	A definition within a group is accepted.	Clause 8.2.2	m	y
2	Syn_080202_GroupOfDefinitions_002	A definition within a nested group is accepted.	Clause 8.2.2	m	y
3	Syn_080202_GroupOfDefinitions_003	A definition within a group with public visibility modifier is accepted.	Clause 8.2.2	m	y
4	Syn_080202_GroupOfDefinitions_004	A definition within a group with public visibility modifier and attributes is accepted.	Clause 8.2.2	m	y

## 5.61. General format of import

Table 60. General format of import

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_08020301_GeneralFormatOfImport_001	Name handling of imported enumerations is properly handled	Clause 8.2.3.1	m	n
2	NegSem_08020301_GeneralFormatOfImport_002	Name handling of imported enumerations is properly handled	Clause 8.2.3.1	m	y
3	NegSem_08020301_GeneralFormatOfImport_005	Make sure that the identifier of the current module cannot be used for prefixing imported entities	Clause 8.2.3.1	m	y
4	NegSem_08020301_GeneralFormatOfImport_006	The only top-level visible definitions of a module may be imported.	Clause 8.2.3.1	m	y
5	NegSem_08020301_GeneralFormatOfImport_007	Verify that information about message types is imported together with port type	Clause 8.2.3.1	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
6	NegSem_08020301_GeneralFormatOfImport_008	Verify that identifiers of module parameter types are not imported together with module parameters	Clause 8.2.3.1	m	n
7	NegSem_08020301_GeneralFormatOfImport_009	Verify that identifiers of constant types are not imported together with constants	Clause 8.2.3.1	m	n
8	NegSem_08020301_GeneralFormatOfImport_010	Verify that identifiers of field types are not imported together with structured types	Clause 8.2.3.1	m	n
9	NegSem_08020301_GeneralFormatOfImport_011	Verify that identifiers of message types are not imported together with port types	Clause 8.2.3.1	m	n
10	NegSem_08020301_GeneralFormatOfImport_012	Verify that identifiers of signatures are not imported together with port types	Clause 8.2.3.1	m	n
11	NegSem_08020301_GeneralFormatOfImport_013	Verify that identifiers of constant types are not imported together with component types	Clause 8.2.3.1	m	n
12	NegSem_08020301_GeneralFormatOfImport_014	Verify that identifiers of variable types are not imported together with component types	Clause 8.2.3.1	m	n
13	NegSem_08020301_GeneralFormatOfImport_015	Verify that identifiers of port types are not imported together with component types	Clause 8.2.3.1	m	n
14	NegSem_08020301_GeneralFormatOfImport_016	Verify that identifiers of parameter types are not imported together with signatures	Clause 8.2.3.1	m	n
15	NegSem_08020301_GeneralFormatOfImport_017	Verify that identifiers of return types are not imported together with signatures	Clause 8.2.3.1	m	n

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
16	NegSem_08020301_GeneralFormatOfImport_018	Verify that identifiers of exception types are not imported together with signatures	Clause 8.2.3.1	m	n
17	NegSem_08020301_GeneralFormatOfImport_019	Verify that identifiers of template types are not imported together with data templates	Clause 8.2.3.1	m	n
18	NegSem_08020301_GeneralFormatOfImport_020	Verify that identifiers of parameter types are not imported together with data templates	Clause 8.2.3.1	m	n
19	NegSem_08020301_GeneralFormatOfImport_021	Verify that identifiers of constants are not imported together with data templates	Clause 8.2.3.1	m	n
20	NegSem_08020301_GeneralFormatOfImport_022	Verify that identifiers of module parameters are not imported together with data templates	Clause 8.2.3.1	m	n
21	NegSem_08020301_GeneralFormatOfImport_023	Verify that identifiers of functions are not imported together with data templates	Clause 8.2.3.1	m	n
22	NegSem_08020301_GeneralFormatOfImport_024	Verify that identifiers of signatures are not imported together with signature templates	Clause 8.2.3.1	m	n
23	NegSem_08020301_GeneralFormatOfImport_025	Verify that identifiers of constants are not imported together with signature templates	Clause 8.2.3.1	m	n
24	NegSem_08020301_GeneralFormatOfImport_026	Verify that identifiers of module parameters are not imported together with signature templates	Clause 8.2.3.1	m	n
25	NegSem_08020301_GeneralFormatOfImport_027	Verify that identifiers of functions are not imported together with signature templates	Clause 8.2.3.1	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
26	NegSem_0802 0301_General FormatOfImport_028	Verify that identifiers of parameter types are not imported together with functions	Clause 8.2.3.1	m	n
27	NegSem_0802 0301_General FormatOfImport_029	Verify that identifiers of return type are not imported together with functions	Clause 8.2.3.1	m	n
28	NegSem_0802 0301_General FormatOfImport_030	Verify that identifiers of component types are not imported together with functions	Clause 8.2.3.1	m	n
29	NegSem_0802 0301_General FormatOfImport_031	Verify that identifiers of parameter types are not imported together with external functions	Clause 8.2.3.1	m	n
30	NegSem_0802 0301_General FormatOfImport_032	Verify that identifiers of return type are not imported together with external functions	Clause 8.2.3.1	m	n
31	NegSem_0802 0301_General FormatOfImport_033	Verify that identifiers of parameter types are not imported together with altsteps	Clause 8.2.3.1	m	n
32	NegSem_0802 0301_General FormatOfImport_034	Verify that identifiers of component types are not imported together with altsteps	Clause 8.2.3.1	m	n
33	NegSem_0802 0301_General FormatOfImport_035	Verify that identifiers of parameter types are not imported together with test cases	Clause 8.2.3.1	m	n
34	NegSem_0802 0301_General FormatOfImport_036	Verify that identifiers of component types ( <b>runs on</b> ) are not imported together with test cases	Clause 8.2.3.1	m	n
35	NegSem_0802 0301_General FormatOfImport_037	Verify that identifiers of component types ( <b>system</b> ) are not imported together with test cases	Clause 8.2.3.1	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
36	NegSem_08020301_GeneralFormatOfImport_038	Verify that definition from inside an imported function cannot be referenced	Clause 8.2.3.1	m	y
37	NegSem_08020301_GeneralFormatOfImport_039	Verify that <code>import</code> clause cannot override language tag of imported module	Clause 8.2.3.1	m	n
38	NegSem_08020301_GeneralFormatOfImport_040	Verify that unsupported language concepts cannot be used when language is set by <code>import</code> clause	Clause 8.2.3.1	m	n
39	NegSyn_08020301_GeneralFormatOfImport_001	<code>import</code> statement cannot be used in test case blocks	Clause 8.2.3.1	m	y
40	NegSyn_08020301_GeneralFormatOfImport_002	<code>import</code> statement cannot be used in module control part	Clause 8.2.3.1	m	y
41	Sem_08020301_GeneralFormatOfImport_003	Make sure that local definition takes precedence over imported one when their identifiers are equal	Clause 8.2.3.1	m	y
42	Sem_08020301_GeneralFormatOfImport_004	Make sure that imported enumeration values take precedence over local definition	Clause 8.2.3.1	m	y
43	Sem_08020301_GeneralFormatOfImport_005	Make sure that it is possible to use module prefix for local definitions	Clause 8.2.3.1	m	y
44	Sem_08020301_GeneralFormatOfImport_006	Make sure that it is possible to use module prefix for local definitions	Clause 8.2.3.1	m	n
45	Sem_08020301_GeneralFormatOfImport_007	Make sure that it is possible to use module prefix for imported definitions	Clause 8.2.3.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
46	Sem_08020301_GeneralForm atOfImport_008	Verify that structured type is imported together with its field names and nested type definitions	Clause 8.2.3.1	m	y
47	Sem_08020301_GeneralForm atOfImport_009	Verify that component type is imported together with constant, variable, timer and port names	Clause 8.2.3.1	m	y
48	Sem_08020301_GeneralForm atOfImport_010	Verify that signature is imported together with parameter names	Clause 8.2.3.1	m	y
49	Sem_08020301_GeneralForm atOfImport_011	Verify that parameterized template is imported together with parameter names	Clause 8.2.3.1	m	y
50	Sem_08020301_GeneralForm atOfImport_012	Verify that function is imported together with parameter names	Clause 8.2.3.1	m	y
51	Sem_08020301_GeneralForm atOfImport_013	Verify that altstep is imported together with parameter names	Clause 8.2.3.1	m	y
52	Sem_08020301_GeneralForm atOfImport_014	Verify that test case is imported together with parameter names	Clause 8.2.3.1	m	y
53	Sem_08020301_GeneralForm atOfImport_015	Verify that information about module parameter type is imported together with module parameter	Clause 8.2.3.1	m	y
54	Sem_08020301_GeneralForm atOfImport_016	Verify that information about type of constant is imported together with constant	Clause 8.2.3.1	m	y
55	Sem_08020301_GeneralForm atOfImport_017	Verify using of <b>import</b> clause with language tag for importing module having identical language tag	Clause 8.2.3.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
56	Sem_08020301_GeneralForm atOfImport_018	Verify using of <b>import</b> clause with language tag for importing module with no language tag	Clause 8.2.3.1	m	y
57	Sem_08020301_GeneralForm atOfImport_019	Verify that type of port is imported from a module as expected	Clause 8.2.3.1	m	y
58	Sem_08020301_GeneralForm atOfImport_020	Verify that prefixed type is evaluated as expected	Clause 8.2.3.1	m	y
59	Syn_08020301_GeneralForm atOfImport_001	Import all is accepted.	Clause 8.2.3.1	m	y
60	Syn_08020301_GeneralForm atOfImport_002	Import of specific types is accepted.	Clause 8.2.3.1	m	n

## 5.62. Importing single definitions

Table 61. Importing single definitions

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_08020302_ImportingSingleDefinitions_001	The value of an explicitly imported constant can be read and carries the same value.	Clause 8.2.3.2	m	n
2	Sem_08020302_ImportingSingleDefinitions_002	The value of an explicitly imported template can be read and carries the same value.	Clause 8.2.3.2	m	n

## 5.63. Importing groups

Table 62. Importing groups

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_08020303_ImportingGroups_001	Constants listed as exceptions in imported groups are not accessible.	Clause 8.2.3.3	m	n
2	Sem_08020303_ImportingGroups_001	A const defined in a group can be accessed if the group is imported.	Clause 8.2.3.3	m	n
3	Sem_08020303_ImportingGroups_002	The IUT properly handles <b>except</b> clause in group import definitions	Clause 8.2.3.3	m	n
4	Sem_08020303_ImportingGroups_003	but that it is in fact a shortcut notation for explicit imports.	Clause 8.2.3.3	m	n

## 5.64. Importing definitions of the same kind

Table 63. Importing definitions of the same kind

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_08020301_GeneralFormatOfImport_003	Transitive import rules are properly handled	Clause 8.2.3.4	m	y
2	NegSem_08020301_GeneralFormatOfImport_004	Transitive import rules are properly handled	Clause 8.2.3.4	m	y
3	Sem_08020301_GeneralFormatOfImport_001	Transitive imports are properly handled	Clause 8.2.3.4	m	y
4	Sem_08020301_GeneralFormatOfImport_002	Enumerated type definitions are automatically imported when needed	Clause 8.2.3.4	m	y
5	Sem_08020304_ImportingDefinitionsOfTheSameKind_001	An import of all constants allows access to a sample constant.	Clause 8.2.3.4	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
6	Sem_08020304_ImportingDefinitionsOfTheSameKind_002	A previously valid <code>const import</code> is not removed by an <code>import</code> covering the same definition with an <code>except</code> .	Clause 8.2.3.4	m	n
7	Sem_08020304_ImportingDefinitionsOfTheSameKind_003	A previously valid <code>const import</code> is not removed by a second <code>import</code> statement excluding the same definition.	Clause 8.2.3.4	m	n

## 5.65. Importing all definitions of a module

Table 64. Importing all definitions of a module

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_08020305_ImportingAllDefinitionsOfAModule_001	The constant is not visible after <code>import</code> with <code>except</code> .	Clause 8.2.3.5	m	n
2	NegSem_08020305_ImportingAllDefinitionsOfAModule_002	The constant is not visible after <code>import</code> with <code>except</code> .	Clause 8.2.3.5	m	n
3	Sem_08020305_ImportingAllDefinitionsOfAModule_001	The constant is be visible after multiple imports.	Clause 8.2.3.5	m	y
4	Sem_08020305_ImportingAllDefinitionsOfAModule_002	The constant is be visible after multiple imports.	Clause 8.2.3.5	m	n

## 5.66. Import definitions from other TTCN-3 editions and from non-TTCN-3 modules

Table 65. Import definitions from other TTCN-3 editions and from non-TTCN-3 modules

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_08020306_ImportingDefinitionsFromOtherT3EditionsAndFromNonT3Modules_001	It is possible to import from previous language versions.	Clause 8.2.3.6	m	y
2	Syn_08020306_ImportingDefinitionsFromOtherT3EditionsAndFromNonT3Modules_001	Imports work with language references when importing definitions of the same kinds (in this case constants) is accepted.	Clause 8.2.3.6	m	y
3	Syn_08020306_ImportingDefinitionsFromOtherT3EditionsAndFromNonT3Modules_002	Imports work with language references when importing all definitions of another module is accepted.	Clause 8.2.3.6	m	y

## 5.67. Importing of **import** statements from TTCN-3 modules

Table 66. Importing of **import** statements from TTCN-3 modules

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_08020307_ImportingOfImportStatementsFromT3Modules_001	The import of <b>import</b> statements works for import all.	Clause 8.2.3.7	m	y
2	NegSem_08020307_ImportingOfImportStatementsFromT3Modules_002	The import of <b>import</b> statements works for import all.	Clause 8.2.3.7	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
3	Sem_08020307_ImportingOfImportStatementsFromT3Modules_001	The import of <b>import</b> statements works for import all.	Clause 8.2.3.7	m	y

## 5.68. Compatibility of language specifications of imports

Table 67. Compatibility of language specifications of imports

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_08020308_CompatibilityOfLanguageSpecificationsInImports_001	Imports referring to future TTCN-3 versions are rejected.	Clause 8.2.3.8	m	n
2	NegSem_08020308_CompatibilityOfLanguageSpecificationsInImports_002	Verify that modules with explicit language tag cannot import from newer TTCN-3 versions	Clause 8.2.3.8	m	n
3	NegSem_08020308_CompatibilityOfLanguageSpecificationsInImports_003	Verify that modules with explicit language tag cannot import from newer TTCN-3 versions	Clause 8.2.3.8	m	n
4	Sem_08020308_CompatibilityOfLanguageSpecificationsInImports_001	Verify that modules with explicit language tag can import from older TTCN-3 versions	Clause 8.2.3.8	m	y
5	Sem_08020308_CompatibilityOfLanguageSpecificationsInImports_002	Verify that modules with explicit language tag can import from older TTCN-3 versions	Clause 8.2.3.8	m	y

## 5.69. Definition of friend modules

Table 68. Definition of friend modules

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_080204_DefinitionOfFriendModules_001	Friend visibility works for a sample constant.	Clause 8.2.4	m	y
2	NegSem_080204_DefinitionOfFriendModules_002	Private definitions are not made visible by friend declarations (for a constant sample definition).	Clause 8.2.4	m	y
3	Sem_080204_DefinitionOfFriendModules_001	Friend visibility works for a sample constant.	Clause 8.2.4	m	y

## 5.70. Visibility of definitions

Table 69. Visibility of definitions

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_080205_VisibilityOfDefinitions_001	Private definition (in this case a sample constant) is not visible using a normal import.	Clause 8.2.5	m	y
2	NegSem_080205_VisibilityOfDefinitions_002	Private definition (in this case a sample constant) is not visible using an import of a friend module.	Clause 8.2.5	m	y
3	NegSem_080205_VisibilityOfDefinitions_003	Friend definition (in this case a sample constant) is not visible using a group import of a non-friend module.	Clause 8.2.5	m	y
4	NegSem_080205_VisibilityOfDefinitions_004	Private definition (in this case a sample constant) is not visible using a group import of a non-friend module.	Clause 8.2.5	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
5	NegSem_080205_VisibilityOfDefinitions_005	Private definition (in this case a sample constant) is not visible using a group import of a friend module.	Clause 8.2.5	m	y
6	Sem_080205_VisibilityOfDefinitions_001	Explicitly defined public definitions (in this case a sample constant) are visible when imported.	Clause 8.2.5	m	y
7	Sem_080205_VisibilityOfDefinitions_002	Explicitly defined public definitions (in this case a sample constant) are visible when imported by a friend module.	Clause 8.2.5	m	y
8	Sem_080205_VisibilityOfDefinitions_003	Explicitly defined public definitions (in this case a sample constant) are visible when imported through a group.	Clause 8.2.5	m	y
9	Sem_080205_VisibilityOfDefinitions_004	Explicitly defined public definitions (in this case a sample constant) are visible when imported through a group of a friend module.	Clause 8.2.5	m	y
10	Sem_080205_VisibilityOfDefinitions_005	Friend definitions (in this case a sample constant) are visible when imported through a group of a friend module.	Clause 8.2.5	m	y

## 5.71. Module control part

Table 70. Module control part

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSyn_0803_ModuleControlPart_001	There is not more than one control part.	Clause 8.3	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
2	Sem_0803_ModuleControlPart_001	The verdict returned from a test case to the control-part does not influence the execution of a second test case. The result of the last test case execution corresponds to the overall test verdict.	Clause 8.3	m	y
3	Syn_0803_ModuleControlPart_001	The module control is able to accept <b>execute</b> statements.	Clause 8.3	m	y
4	Syn_0803_ModuleControlPart_002	The module control part with a few commonly used stateents is accepted.	Clause 8.3	m	y
5	Syn_0803_ModuleControlPart_003	An empty control part is accepted.	Clause 8.3	m	y

## 5.72. Port types, component types and test configurations

Table 71. Port types, component types and test configurations

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_0901_Communication_ports_001	The IUT correctly handles loopback message	Clause 9	m	y
2	Sem_0901_Communication_ports_002	The the IUT receives the message sent by mycompA	Clause 9	m	y
3	Sem_0901_Communication_ports_003	The the IUT receives the message sent by mycompB and mycompC	Clause 9	m	y
4	Sem_0901_Communication_ports_004	The IUT correctly handles message exch. between ports	Clause 9	m	y
5	Sem_0901_Communication_ports_005	The the IUT receives the message sent by mycompA	Clause 9	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
6	NegSem_0902_Communication_ports_001	The IUT correctly handles the assoc. of two port to the same system interface	Clause 9	m	n
7	NegSem_0902_Communication_ports_002	The mycomp is connected to two system interface port.	Clause 9	m	n
8	NegSem_0902_Communication_ports_003	The two system interf. port cannot connect	Clause 9	m	y
9	NegSem_0902_Communication_ports_004	The a connected port cannot be mapped	Clause 9	m	n
10	Sem_0902_Communication_ports_001	The IUT port correctly mapped with a system interface	Clause 9	m	y
11	Sem_0902_Communication_ports_002	The IUTs two ports are mapped correctly to system interfaces	Clause 9	m	y
12	Syn_0902_Communication_ports_001	Two component can be mapped by one system interface	Clause 9	m	y

## 5.73. Communication ports

Table 72. Communication ports

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
1	NegSem_0901_Communication_ports_001	A port owned by a component cannot be connected with two other ports	Clause 9.1	m	n
2	NegSem_0901_Communication_ports_002	It is not possible to connect a mapped port	Clause 9.1	m	y
3	NegSem_0901_Communication_ports_003	It is not possible to connect a port with two other ports owned by the same component	Clause 9.1	m	n

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
4	NegSem_0901_Communication_ports_004	Verify that it is not possible to map a connected port	Clause 9.1	m	y
5	NegSem_0901_Communication_ports_005	Verify that it is not possible to connect a port with a port owned by the same component	Clause 9.1	m	n
6	NegSem_0901_Communication_ports_006	Verify that only 1:1 connection between component port and TSI are allowed	Clause 9.1	m	n
7	NegSem_0901_Communication_ports_007	Verify that a two TSI port cannot be connected	Clause 9.1	m	y
8	NegSem_0901_Communication_ports_008	Verify that mapping an already connected port is not allowed	Clause 9.1	m	n
9	NegSem_0901_Communication_ports_009	Verify that connections within the test system interface are not allowed	Clause 9.1	m	y
10	NegSyn_0901_Communication_ports_001	Verify that a two TSI port cannot be connected	Clause 9.1	m	y
11	Sem_0901_Communication_ports_006	Verify that a port can connect to itself	Clause 9.1	m	y
12	Sem_0901_Communication_ports_007	Verify that a port can connect to another port of the same component	Clause 9.1	m	y
13	Sem_0901_Communication_ports_008	Verify that more than one component port can mapped to a single system port	Clause 9.1	m	y
14	Sem_0901_Communication_ports_009	Verify that a component port can be connected to two other component ports	Clause 9.1	m	y
15	Sem_0901_Communication_ports_010	Verify that a component port can be mapped to TSI port	Clause 9.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
16	Sem_0901_Communication_ports_011	Verify that a component ports can be mapped to TSI ports	Clause 9.1	m	y

## 5.74. Declaring constants

Table 73. Declaring constants

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_10_Constants_001	Assign rnd to constant used in type, not allowed since constant expressions used in types have to be known at compile-time.	Clause 10	m	y
2	NegSem_10_Constants_002	A value is assigned only once to a constant	Clause 10	m	y
3	NegSem_10_Constants_003	Constant shall not be of port type	Clause 10	m	y
4	NegSem_10_Constants_004	Dot notation of a field in a record, which actual value is <b>null</b> shall cause an error	Clause 10	m	n
5	NegSem_10_Constants_005	Index notation of a field in a set of type, which actual value is <b>null</b> shall cause an error	Clause 10	m	n
6	Sem_10_Constants_001	Assign and read constants	Clause 10	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
7	Sem_10_Constants_002	Assign and read constants values	Clause 10	m	y
8	Sem_10_Constants_003	Single expression and constant values	Clause 10	m	y
9	Sem_10_Constants_004	Constant used within invoke function with return	Clause 10	m	y
10	Sem_10_Constants_005	Constant used within predefined function	Clause 10	m	y
11	Sem_10_Constants_006	Record type used as a constant	Clause 10	m	y
12	Sem_10_Constants_007	Record type used as a constant with optional fields	Clause 10	m	y
13	Sem_10_Constants_008	Set type used as a constant	Clause 10	m	y
14	Sem_10_Constants_009	Set type used as a constant with optional fields	Clause 10	m	y
15	Syn_10_Constants_001	Create constants	Clause 10	m	y
16	Syn_10_Constants_002	Assign default constants values	Clause 10	m	y
17	Syn_10_Constants_003	Assign component constants values	Clause 10	m	y
18	Syn_10_Constants_004	Define constants in different scopes	Clause 10	m	y

## 5.75. Value variables

Table 74. Value variables

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_1101_ValueVars_001	Variables should be assigned only by values	Clause 11.1	m	y
2	NegSem_1101_ValueVars_002	Partially initialized variables are evaluated correctly.	Clause 11.1	m	n
3	NegSem_1101_ValueVars_003	Dot notation referencing to a field, which actual value is <code>null</code> shall cause an error.	Clause 11.1	m	n
4	NegSem_1101_ValueVars_004	Index notation referencing to a "set of", which actual value is <code>null</code> shall cause an error.	Clause 11.1	m	n
5	NegSem_1101_ValueVars_005	Variables should be assigned only by values	Clause 11.1	m	y
6	NegSyn_1101_ValueVars_001	Define variables in module scope	Clause 11.1	m	y
7	Sem_1101_ValueVars_001	Define variables in different scopes	Clause 11.1	m	y
8	Sem_1101_ValueVars_002	Define variables in different scopes	Clause 11.1	m	y
9	Sem_1101_ValueVars_003	Read and write variables	Clause 11.1	m	y
10	Sem_1101_ValueVars_004	Partially initialized variables are evaluated correctly.	Clause 11.1	m	y
11	Sem_1101_ValueVars_005	Partially initialized variables are evaluated correctly.	Clause 11.1	m	y
12	Syn_1101_ValueVars_001	Define variables in different scopes	Clause 11.1	m	y

## 5.76. Template variables

Table 75. Template variables

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_1102_TemplateVars_001	Template variables should be assigned with uninitialized variables	Clause 11.2	m	y
2	NegSem_1102_TemplateVars_002	Partially initialized templates are evaluated correctly.	Clause 11.2	m	n
3	NegSem_1102_TemplateVars_003	Dot notation referencing to a field, which actual value is <code>null</code> shall cause an error.	Clause 11.2	m	n
4	NegSem_1102_TemplateVars_004	Index notation referencing to a set of, which actual value is <code>null</code> shall cause an error.	Clause 11.2	m	n
5	NegSyn_1102_TemplateVars_001	Define template variables in module scope	Clause 11.2	m	y
6	NegSyn_1102_TemplateVars_002	Template variables should be assigned with uninitialized variables	Clause 11.2	m	y
7	Sem_1102_TemplateVars_001	Define variables in different scopes	Clause 11.2	m	y
8	Sem_1102_TemplateVars_002	Partially initialized templates are evaluated correctly.	Clause 11.2	m	y
9	Sem_1102_TemplateVars_003	Partially initialized templates are evaluated correctly.	Clause 11.2	m	y
10	Syn_1102_TemplateVars_001	Define template variables in different scopes	Clause 11.2	m	y

## 5.77. Declaring timers

Table 76. Declaring timers

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_12_to_plevel_timer_001	Ensure timer can not be initialized with negative duration	Clause 12	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
2	NegSem_12_to_plevel_timer_002	Ensure timer in array can not be initialized with negative duration	Clause 12	m	y
3	NegSem_12_to_plevel_timer_003	Ensure uninitialized timer can't be started	Clause 12	m	y
4	NegSem_12_to_plevel_timer_004	Ensure uninitialized timer in array can't be started	Clause 12	m	y
5	NegSem_12_to_plevel_timer_005	Ensure uninitialized timer in array can't be started	Clause 12	m	y
6	NegSem_12_to_plevel_timer_006	Ensure <b>timer declaration syntax</b> - reject single timer instance initialized with array	Clause 12	m	y
7	NegSem_12_to_plevel_timer_007	Ensure <b>timer declaration syntax</b> – reject array initialization with wrong number of initializers	Clause 12	m	y
8	NegSem_12_to_plevel_timer_008	Ensure <b>timer declaration syntax</b> – reject array of timers initialized with a single float value	Clause 12	m	y
9	NegSyn_12_to_plevel_timer_001	Ensure timer can't be used in module control parts when declared in components	Clause 12	m	y
	10	NegSyn_12_toplevel_timer_002	Ensure <b>timer declaration syntax</b>	Clause 12	m
y		11	NegSyn_12_to_plevel_timer_003	Ensure <b>timer declaration syntax</b>	Clause 12
m	y		12	NegSyn_12_toplevel_timer_004	Ensure <b>timer declaration syntax</b>

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
Clause 12	m	y		13	NegSyn_12_toplevel_timer_005
Ensure timer declaration syntax	Clause 12	m	y		14
NegSyn_12_toplevel_timer_006	Ensure timer array declaration syntax	Clause 12	m	y	
15	NegSyn_12_toplevel_timer_007	Ensure timer array declaration syntax	Clause 12	m	y
	16	Sem_12_toplevel_timer_001	Ensure timer can be declared in components	Clause 12	m
y		17	Sem_12_toplevel_timer_002	Ensure timer can be declared in module control parts	Clause 12
m	y		18	Sem_12_toplevel_timer_003	Ensure timer can be declared in altsteps
Clause 12	m	y		19	Sem_12_toplevel_timer_004
Ensure timer can be declared in functions	Clause 12	m	y		20

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
Sem_12_toplevel_timer_005	Ensure timer can be declared in test cases	Clause 12	m	y	
21	Sem_12_toplevel_timer_006	Ensure timer`s elapsed time is plausible	Clause 12	m	y
22	Sem_12_toplevel_timer_007	Ensure timer can be declared in components but used in test cases	Clause 12	m	y
23	Sem_12_toplevel_timer_008	Ensure timer can be declared in components but used in functions	Clause 12	m	y
24	Sem_12_toplevel_timer_009	Ensure timer can be declared in components but used in altsteps	Clause 12	m	y
25	Syn_12_toplevel_timer_001	Ensure non-initialized <b>timer declaration</b> syntax	Clause 12	m	y
26	Syn_12_toplevel_timer_002	Ensure <b>timer array declaration</b> syntax	Clause 12	m	y
27	Syn_12_toplevel_timer_003	Ensure definition of a list of timers is allowed as a single declaration	Clause 12	m	y
28	Syn_12_toplevel_timer_004	Ensure <b>timer array initialization</b> syntax	Clause 12	m	y
29	Syn_12_toplevel_timer_005	Ensure timer declaration with expression	Clause 12	m	y
30	Syn_12_toplevel_timer_006	Ensure timer declaration with expression	Clause 12	m	y

## 5.78. Declaring messages

Table 77. Declaring messages

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_13_declaring_msg_001	Ensure received messages can be a combination of value and matching mechanism	Clause 13	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
2	Sem_13_declaring_msg_002	Ensure received messages can `t be matched with wrong template	Clause 13	m	y
3	Sem_13_declaring_msg_003	Ensure instances of messages can be declared by in-line templates	Clause 13	m	y
4	Sem_13_declaring_msg_004	Ensure instances of messages can be declared by global templates	Clause 13	m	y
5	Sem_13_declaring_msg_005	Ensure instances of messages can be declared and passed via template variables	Clause 13	m	y
6	Sem_13_declaring_msg_006	Ensure instances of messages can be declared and passed via inline template	Clause 13	m	y
7	Sem_13_declaring_msg_007	Ensure instances of messages can be declared and passed via parameter	Clause 13	m	y
8	Sem_13_declaring_msg_008	Ensure instances of messages can be declared and passed via template parameter	Clause 13	m	y
9	Sem_13_declaring_msg_009	Ensure instances of messages can be declared and passed via template parameter	Clause 13	m	y
10	Sem_13_toplevel_declaring_msg_various_types_001	Port with type anytype can send and receive messages of any basic or structured type: `record' type.	Clause 13	m	y
11	Sem_13_toplevel_declaring_msg_various_types_002	Port with type anytype can send and receive messages of any basic or structured type: `record of' type.	Clause 13	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
12	Sem_13_toplevel_declaring_msg_various_types_003	Port with type anytype can send and receive messages of any basic or structured type: `enum` type.	Clause 13	m	y
13	Sem_13_toplevel_declaring_msg_various_types_004	Port with type anytype can send and receive messages of any basic or structured type: `set` type.	Clause 13	m	y
14	Sem_13_toplevel_declaring_msg_various_types_005	Port with type anytype can send and receive messages of any basic or structured type: `union` type.	Clause 13	m	y
15	Sem_13_toplevel_declaring_msg_various_types_006	Port with type anytype can send and receive messages of any basic or structured type: `bitstring` type.	Clause 13	m	y
16	Sem_13_toplevel_declaring_msg_various_types_007	Port with type anytype can send and receive messages of any basic or structured type: `boolean` type.	Clause 13	m	y
17	Sem_13_toplevel_declaring_msg_various_types_008	Port with type anytype can send and receive messages of any basic or structured type: `charstring` type.	Clause 13	m	y
18	Sem_13_toplevel_declaring_msg_various_types_009	Port with type anytype can send and receive messages of any basic or structured type: `float` type.	Clause 13	m	y
19	Sem_13_toplevel_declaring_msg_various_types_010	Port with type anytype can send and receive messages of any basic or structured type: `hexstring` type.	Clause 13	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
20	Sem_13_toplevel_declaring_msg_various_types_011	Port with type anytype can send and receive messages of any basic or structured type: `integer` type.	Clause 13	m	y
21	Sem_13_toplevel_declaring_msg_various_types_012	Port with type anytype can send and receive messages of any basic or structured type: `octetstring` type.	Clause 13	m	y
22	Sem_13_toplevel_declaring_msg_various_types_013	Port with type anytype can send and receive messages of any basic or structured type: `universal charstring` type.	Clause 13	m	n
23	Sem_13_toplevel_declaring_msg_various_types_014	Port with type anytype can send and receive messages of any basic or structured type: `verdicttype` type.	Clause 13	m	y

## 5.79. Declaring procedure signatures

Table 78. Declaring procedure signatures

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_1400_procedure_signatures_001	Nonblocking signature contains <b>in</b> parameter	Clause 14	m	y
1	NegSem_1400_procedure_signatures_002	Blocking calls needs response or exception handling	Clause 14	m	y
2	Sem_1400_procedure_signatures_001	The IUT calls signature exception	Clause 14	m	y
3	Sem_1400_procedure_signatures_002	With noblock signature the IUT can raise exception	Clause 14	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
4	Sem_1400_procedure_signatures_003	Non blocking signatures can raise exception	Clause 14	m	y
5	Sem_1400_procedure_signatures_004	Multiple calls can be send without ack using non-blocking signature	Clause 14	m	y

## 5.80. Declaring templates

Table 79. Declaring templates

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_15_TopLevel_001	A template formed from a union is rejected when the union somehow contains a default type field.	Clause 15	m	n
2	NegSem_15_TopLevel_002	A template formed from a union is rejected when the union somehow contains a port type field.	Clause 15	m	n
3	NegSem_15_TopLevel_003	A template shall not be of default type.	Clause 15	m	n
4	NegSem_15_TopLevel_004	A template shall not be of port type.	Clause 15	m	n
5	NegSyn_15_TopLevel_001	The expression or template body initializing a template shall evaluate to a value or template, which is type compatible with the template being declared	Clause 15	m	y
6	Syn_15_TopLevel_001	A simple template with a single charstring field is accepted.	Clause 15	m	y

## 5.81. Declaring message templates

Table 80. Declaring message templates

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Syn_1501_DeclaringMessageTemplates_001	A simple record-based message template can be defined.	Clause 15.1	m	y
2	Syn_1501_DeclaringMessageTemplates_002	A simple record-based message template with a wildcard ? is accepted.	Clause 15.1	m	y
3	Syn_1501_DeclaringMessageTemplates_003	A simple record-based message template can be defined with a pattern in a charstring field.	Clause 15.1	m	y
4	Syn_1501_DeclaringMessageTemplates_004	A primitive type template can be defined with a ? wildcard.	Clause 15.1	m	y
5	Syn_1501_DeclaringMessageTemplates_005	A primitive type template can be defined with a one-of notation.	Clause 15.1	m	y
6	Syn_1501_DeclaringMessageTemplates_006	All port operations are accepted.	Clause 15.1	m	y

## 5.82. Declaring signature templates

Table 81. Declaring signature templates

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_1502_DeclaringSignatureTemplates_001	Test in-line templates for accepting procedure replies.	Clause 15.2	m	y
2	Sem_1502_DeclaringSignatureTemplates_002	Test in-line templates for accepting procedure replies.	Clause 15.2	m	y
3	Sem_1502_DeclaringSignatureTemplates_003	Test in-line templates for accepting procedure replies.	Clause 15.2	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
4	Syn_1502_DeclaringSignatureTemplates_001	Signature templates with explicit values are accepted.	Clause 15.2	m	y
5	Syn_1502_DeclaringSignatureTemplates_002	Signature templates with wildcards are accepted.	Clause 15.2	m	y
6	Syn_1502_DeclaringSignatureTemplates_003	The basic operations <code>call</code> and <code>getreply</code> are accepted.	Clause 15.2	m	y
7	Syn_1502_DeclaringSignatureTemplates_004	The <code>raise</code> and <code>catch</code> operations are accepted.	Clause 15.2	m	y

## 5.83. Global and local templates

Table 82. Global and local templates

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_1503_GlobalAndLocalTemplates_001	There's an error for re-assignment of a global non-parameterized template	Clause 15.3	m	y
2	NegSem_1503_GlobalAndLocalTemplates_002	There's an error for re-assignment of a global non-parameterized template	Clause 15.3	m	y
3	NegSem_1503_GlobalAndLocalTemplates_003	There's an error for re-assignment of a global parameterized template	Clause 15.3	m	y
4	NegSem_1503_GlobalAndLocalTemplates_004	There's an error for re-assignment of a local parameterized template	Clause 15.3	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
5	NegSyn_1503_GlobalAndLocalTemplates_001	There's an error if no value is assigned in a global non-parameterized template declaration	Clause 15.3	m	y
6	NegSyn_1503_GlobalAndLocalTemplates_002	There's an error if no value is assigned in a local non-parameterized template declaration	Clause 15.3	m	y
7	NegSyn_1503_GlobalAndLocalTemplates_003	There's an error if no value is assigned in a global parameterized template declaration	Clause 15.3	m	y
8	NegSyn_1503_GlobalAndLocalTemplates_004	There's an error if no value is assigned in a local parameterized template declaration	Clause 15.3	m	y
9	Sem_1503_GlobalAndLocalTemplates_001	A template values can be accessed with the dot notation as expected.	Clause 15.3	m	y
10	Sem_1503_GlobalAndLocalTemplates_002	A template actual parameter is passed through correctly.	Clause 15.3	m	y
11	Sem_1503_GlobalAndLocalTemplates_003	A <b>send</b> operation with actual parameters of a global parameterized template is accepted.	Clause 15.3	m	y
12	Sem_1503_GlobalAndLocalTemplates_004	A parameterized local template in a test case is accepted.	Clause 15.3	m	n
13	Sem_1503_GlobalAndLocalTemplates_005	A <b>send</b> operation with actual parameters of a global parameterized template is accepted with the actual parameter being a template parameter.	Clause 15.3	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
14	Sem_1503_GlobalAndLocalTemplates_006	A <b>send</b> operation with actual parameters of a global parameterized template is accepted with the actual parameter being an inline template.	Clause 15.3	m	y
15	Syn_1503_GlobalAndLocalTemplates_001	A global parameterized template is accepted.	Clause 15.3	m	y
16	Syn_1503_GlobalAndLocalTemplates_004	A parameterized local template in the control part is accepted.	Clause 15.3	m	n
17	Syn_1503_GlobalAndLocalTemplates_005	A parameterized local template in a function is accepted.	Clause 15.3	m	n
18	Syn_1503_GlobalAndLocalTemplates_006	A parameterized local template in an altstep is accepted.	Clause 15.3	m	n

## 5.84. In-line templates

Table 83. In-line templates

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Syn_1504_InlineTemplates_001	Inline templates are accepted.	Clause 15.4	m	y
2	Syn_1504_InlineTemplates_002	Modified parameterized inline templates are accepted.	Clause 15.4	m	y
3	Syn_1504_InlineTemplates_003	Modified plain inline templates are accepted.	Clause 15.4	m	y

## 5.85. Modified templates

Table 84. Modified templates

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
1	NegSem_1505_ModifiedTemplates_001	A modified template does not refer to itself.	Clause 15.5	m	y
2	NegSem_1505_ModifiedTemplates_002	A modified template does not omit possible parameters of the base template.	Clause 15.5	m	y
3	NegSem_1505_ModifiedTemplates_003	A modified template does not omit possible parameters introduced in any modification step.	Clause 15.5	m	y
4	NegSem_1505_ModifiedTemplates_004	Parameter names in modified templates are the same.	Clause 15.5	m	y
5	NegSem_1505_ModifiedTemplates_005	The dash in default parameter values of a modified templates is only accepted when the base template actually has a default value.	Clause 15.5	m	y
6	NegSem_1505_ModifiedTemplates_006	The same parameter name is used when modifying the base template.	Clause 15.5	m	y
7	NegSem_1505_ModifiedTemplates_007	The same parameter type is used when modifying the base template.	Clause 15.5	m	y
8	NegSyn_1505_ModifiedTemplates_001	The base template and modified template cannot be the same	Clause 15.5	m	y
9	Sem_1505_ModifiedTemplates_001	The values of plain modified template definitions are as expected.	Clause 15.5	m	y
10	Sem_1505_ModifiedTemplates_002	A modified template of a record of type using index notation access works as expected.	Clause 15.5	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
11	Sem_1505_ModifiedTemplates_003	Default values in formal parameters of modified templates are working as expected.	Clause 15.5	m	y
12	Sem_1505_ModifiedTemplates_004	Default values in formal parameters of modified templates are working as expected when the modified template uses the dash for the default value.	Clause 15.5	m	y
13	Sem_1505_ModifiedTemplates_005	Default values in formal parameters of modified templates are working as expected	Clause 15.5	m	y
14	Sem_1505_ModifiedTemplates_006	Default values in formal parameters of modified templates are working as expected	Clause 15.5	m	y
15	Sem_1505_ModifiedTemplates_007	Default values in formal parameters of modified templates are working as expected.	Clause 15.5	m	y
16	Sem_1505_ModifiedTemplates_008	The values of plain modified template definitions are as expected.	Clause 15.5	m	y
17	Sem_1505_ModifiedTemplates_009	Default values in formal parameters of modified templates are working as expected.	Clause 15.5	m	y
18	Sem_1505_ModifiedTemplates_010	Default values in formal parameters of modified templates are working as expected.	Clause 15.5	m	y
19	Syn_1505_ModifiedTemplates_001	Plain modified template definitions are accepted.	Clause 15.5	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
20	Syn_1505_ModifiedTemplates_002	A modified template does not omit possible parameters introduced in any modification step.	Clause 15.5	m	y
21	Syn_1505_ModifiedTemplates_003	The default values in formal parameters of modified templates are accepted.	Clause 15.5	m	y
22	Syn_1505_ModifiedTemplates_004	Dash as default parameter values are accepted.	Clause 15.5	m	y

## 5.86. Referencing individual string elements

Table 85. Referencing individual string elements

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_150601_ReferencingIndividualStringElements_001	The referencing of individual string elements inside templates or template fields is forbidden.	Clause 15.6.1	m	y

## 5.87. Referencing record and set fields

Table 86. Referencing record and set fields

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_150602_ReferencingRecordAndSetFields_001	Fields with omit values on the right-hand side of an assignment are rejected.	Clause 15.6.2	m	y
2	NegSem_150602_ReferencingRecordAndSetFields_002	Fields with * values on the right-hand side of an assignment are rejected	Clause 15.6.2	m	n
3	NegSem_150602_ReferencingRecordAndSetFields_003	Value lists on the right-hand side of an assignment are not accepted.	Clause 15.6.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
4	NegSem_150602_ReferencingRecordAndSetFields_004	Complement lists on the right-hand side of an assignment are not accepted.	Clause 15.6.2	m	y
5	NegSem_150602_ReferencingRecordAndSetFields_005	Referencing a template field with the <b>ifpresent</b> attribute causes a rejection.	Clause 15.6.2	m	y
6	NegSem_150602_ReferencingRecordAndSetFields_006	Referencing a field of an address type, which actual value is <b>null</b> shall cause rejection.	Clause 15.6.2	m	n
7	Sem_150602_ReferencingRecordAndSetFields_001	? shall be returned for mandatory subfields and * shall be returned for optional subfields.	Clause 15.6.2	m	y
8	Sem_150602_ReferencingRecordAndSetFields_002	The recursive anyvalue expansion is performed correctly when new values are assigned.	Clause 15.6.2	m	y
9	Sem_150602_ReferencingRecordAndSetFields_003	? shall be returned for mandatory subfields and * shall be returned for optional subfields.	Clause 15.6.2	m	n
10	Sem_150602_ReferencingRecordAndSetFields_004	? shall be returned for mandatory subfields and * shall be returned for optional subfields.	Clause 15.6.2	m	n

## 5.88. Referencing record of and set of elements

Table 87. Referencing record of and set of elements

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_150603_ReferencingRecordOfAndSetElements_001	Referencing an element within a value list causes an error in the context of record of.	Clause 15.6.3	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
2	NegSem_150603_ReferencingRecordOfAndSetElements_002	Access to uninitialized fields in the context of record of is rejected.	Clause 15.6.3	m	y
3	NegSem_150603_ReferencingRecordOfAndSetElements_003	Anyvalueornone fields in the context of record of is rejected.	Clause 15.6.3	m	y
4	NegSem_150603_ReferencingRecordOfAndSetElements_004	Complement value lists in the context of record of are rejected.	Clause 15.6.3	m	y
5	NegSem_150603_ReferencingRecordOfAndSetElements_005	Subset in the context of record of are rejected.	Clause 15.6.3	m	y
6	NegSem_150603_ReferencingRecordOfAndSetElements_006	Superset in the context of record of are rejected.	Clause 15.6.3	m	y
7	NegSem_150603_ReferencingRecordOfAndSetElements_007	Access into permutation in record of templates is forbidden.	Clause 15.6.3	m	n
8	NegSem_150603_ReferencingRecordOfAndSetElements_008	Access to record of indexes is forbidden when a previous index entry is a permutation with a *.	Clause 15.6.3	m	y
9	NegSem_150603_ReferencingRecordOfAndSetElements_009	Access to ifpresent fields is not allowed.	Clause 15.6.3	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
10	NegSem_150603_ReferencingRecordOfAndSetElements_010	Referencing AnyValueOrNone fields is not allowed.	Clause 15.6.3	m	y
11	NegSem_150603_ReferencingRecordOfAndSetElements_011	Referencing uninitialized fields is not allowed.	Clause 15.6.3	m	y
12	NegSem_150603_ReferencingRecordOfAndSetElements_012	Referencing uninitialized fields is not allowed.	Clause 15.6.3	m	y
13	NegSem_150603_ReferencingRecordOfAndSetElements_013	Referencing uninitialized fields is not allowed.	Clause 15.6.3	m	y
14	NegSem_150603_ReferencingRecordOfAndSetElements_014	Referencing an element within a value list causes an error in the context of set of.	Clause 15.6.3	m	y
15	NegSem_150603_ReferencingRecordOfAndSetElements_015	Referencing an element of an address type, which actual value is <code>null</code> shall cause an error.	Clause 15.6.3	m	n
16	Sem_150603_ReferencingRecordOfAndSetElements_001	Assignment of an anyvalue on the right hand side yields an anyvalue in the context of record of.	Clause 15.6.3	m	y
17	Sem_150603_ReferencingRecordOfAndSetElements_002	Assignment to a anyvalue in the context of record of is handled correctly.	Clause 15.6.3	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
18	Sem_150603_ReferencingRecordOfAndSetElements_003	Assignment to a anyvalue in the context of record of is handled correctly in two subsequent assignments.	Clause 15.6.3	m	n
19	Sem_150603_ReferencingRecordOfAndSetElements_004	Assignment to a anyvalue in the context of record of is handled correctly when the first element is changed.	Clause 15.6.3	m	y
20	Sem_150603_ReferencingRecordOfAndSetElements_005	Access outside permutation fields is allowed and works as expected.	Clause 15.6.3	m	y
21	Sem_150603_ReferencingRecordOfAndSetElements_006	Referencing an element within a record of, set of or array field to which omit is assigned works as expected	Clause 15.6.3	m	y
22	Sem_150603_ReferencingRecordOfAndSetElements_007	Referencing an element within a record of, set of or array field to which omit is assigned works as expected	Clause 15.6.3	m	n

## 5.89. Referencing signature parameters

Table 88. Referencing signature parameters

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
1	NegSem_150604_ReferencingSignatureParameters_001	Test modification of signature parameters.	Clause 15.6.4	m	n
2	Sem_150604_ReferencingSignatureParameters_001	Test modification of signature parameters.	Clause 15.6.4	m	y

## 5.90. Referencing union alternatives

Table 89. Referencing union alternatives

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_150605_Referencing_union_alternatives_001	Template variables does not allow referencing alternatives inside an union with omit	Clause 15.6.5	m	y
2	NegSem_150605_Referencing_union_alternatives_002	Template variables does not allow referencing alternatives inside an union with AnyValueOrNone	Clause 15.6.5	m	y
3	NegSem_150605_Referencing_union_alternatives_003	Template variables does not allow referencing alternatives inside an union with list	Clause 15.6.5	m	n
4	NegSem_150605_Referencing_union_alternatives_004	Template variables does not allow referencing alternatives inside an union with complemented list	Clause 15.6.5	m	n
5	NegSem_150605_Referencing_union_alternatives_005	Referencing an alternative of a union template field to which the <b>ifpresent</b> attribute is attached, shall cause an error	Clause 15.6.5	m	n
6	NegSem_150605_Referencing_union_alternatives_006	Referencing an alternative of an address type, which actual value is <b>null</b> shall cause	Clause 15.6.5	m	n
7	Sem_150605_Referencing_union_alternatives_001	Template variables allow referencing alternatives inside a union template definition	Clause 15.6.5	m	y
8	Sem_150605_Referencing_union_alternatives_002	Template variables allow referencing with an Anyvalue union template	Clause 15.6.5	m	n

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
9	Sem_150605_Referencing_union_alternatives_003	Template variables allow referencing with an Anyvalue union template	Clause 15.6.5	m	y
10	Sem_150605_Referencing_union_alternatives_004	Template variables allow referencing with an Anyvalue union template	Clause 15.6.5	m	y

## 5.91. Template restrictions

Table 90. Template restrictions

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
1	NegSem_1508_TemplateRestrictions_001	Template(omit) is rejected with anyvalue(?).	Clause 15.8	m	y
2	NegSem_1508_TemplateRestrictions_002	Template(omit) is rejected with setof template.	Clause 15.8	m	y
3	NegSem_1508_TemplateRestrictions_003	Template(omit) is rejected with anyvalueornone(*)	Clause 15.8	m	y
4	NegSem_1508_TemplateRestrictions_004	Template(omit) is rejected with value ranges.	Clause 15.8	m	y
5	NegSem_1508_TemplateRestrictions_005	Template(omit) is rejected with supersets.	Clause 15.8	m	y
6	NegSem_1508_TemplateRestrictions_006	Template(omit) is rejected with subsets.	Clause 15.8	m	y
7	NegSem_1508_TemplateRestrictions_007	Template(omit) is rejected with patterns.	Clause 15.8	m	y
8	NegSem_1508_TemplateRestrictions_008	Template(omit) is rejected with anyelement inside values.	Clause 15.8	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
9	NegSem_1508_TemplateRestrictions_009	Template(omit) is rejected with anyelementnone inside values.	Clause 15.8	m	y
10	NegSem_1508_TemplateRestrictions_010	Template(omit) is rejected with permutation inside values.	Clause 15.8	m	y
11	NegSem_1508_TemplateRestrictions_011	Template(omit) is rejected with length restrictions.	Clause 15.8	m	y
12	NegSem_1508_TemplateRestrictions_012	Template(omit) is rejected with length restrictions.	Clause 15.8	m	y
13	NegSem_1508_TemplateRestrictions_013	Template(omit) is rejected with length restrictions.	Clause 15.8	m	y
14	NegSem_1508_TemplateRestrictions_014	Template(value) is rejected with anyvalue(?).	Clause 15.8	m	y
15	NegSem_1508_TemplateRestrictions_015	Template(value) is rejected with valuelist.	Clause 15.8	m	y
16	NegSem_1508_TemplateRestrictions_016	Template(value) is rejected with anyvalueornone(*).	Clause 15.8	m	y
17	NegSem_1508_TemplateRestrictions_017	Template(value) is rejected with value ranges.	Clause 15.8	m	y
18	NegSem_1508_TemplateRestrictions_018	Template(value) is rejected with supersets.	Clause 15.8	m	y
19	NegSem_1508_TemplateRestrictions_019	Template(value) is rejected with supersets.	Clause 15.8	m	y
20	NegSem_1508_TemplateRestrictions_020	Template(value) is rejected with patterns.	Clause 15.8	m	y
21	NegSem_1508_TemplateRestrictions_021	Template(value) is rejected with anyelement inside values.	Clause 15.8	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
22	NegSem_1508_TemplateRestrictions_022	Template(value) is rejected with permutation inside values.	Clause 15.8	m	y
23	NegSem_1508_TemplateRestrictions_023	Template(value) is rejected with length restrictions.	Clause 15.8	m	y
24	NegSem_1508_TemplateRestrictions_024	Template(value) is rejected with length restrictions.	Clause 15.8	m	y
25	NegSem_1508_TemplateRestrictions_025	Template(present) refuses omit value as a whole.	Clause 15.8	m	y
26	NegSem_1508_TemplateRestrictions_026	Template(value) refuses omit as a whole.	Clause 15.8	m	y
27	NegSem_1508_TemplateRestrictions_027	ensure that symbols created during template expansion are checked against omit template restriction	Clause 15.8	m	n
28	NegSem_1508_TemplateRestrictions_028	ensure that symbols created during template expansion are checked against value template restriction	Clause 15.8	m	n
29	NegSem_1508_TemplateRestrictions_029	The template(present) with anyvalue(?) can't be assigned to an omit restricted variable template	Clause 15.8	m	y
30	NegSem_1508_TemplateRestrictions_030	Unrestricted template with anyvalue(?) can't be assigned to an omit restricted variable template	Clause 15.8	m	y
31	NegSem_1508_TemplateRestrictions_031	Template(omit) can't be assigned to a variable template(value) if omit	Clause 15.8	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
32	NegSem_1508_TemplateRestrictions_032	Template(present) can't be assigned to a template(value) variable if contains anyvalueornone(*)	Clause 15.8	m	y
33	NegSem_1508_TemplateRestrictions_033	An unrestricted template can't be assigned to a template(value) variable if contains anyvalueornone(*)	Clause 15.8	m	y
34	NegSem_1508_TemplateRestrictions_034	A template with omit restriction can't be assigned to a template(present)variable if omit	Clause 15.8	m	y
35	NegSem_1508_TemplateRestrictions_035	An unrestricted template can't be assigned to a template(present)variable if omit	Clause 15.8	m	y
36	NegSem_1508_TemplateRestrictions_036	Template(present) can't be parameter to a template(omit) if contains anyvalueornone(*)	Clause 15.8	m	y
37	NegSem_1508_TemplateRestrictions_037	Template(present) can't be parameter to template(omit) if contains anyvalue(?)	Clause 15.8	m	y
38	NegSem_1508_TemplateRestrictions_038	Template(present) can't be parameter to template(value) if it contains anyvalueornone(*)	Clause 15.8	m	y
39	NegSem_1508_TemplateRestrictions_039	Unrestricted template can't be parameter to template(value) if it contains anyvalueornone(*)	Clause 15.8	m	y
40	NegSem_1508_TemplateRestrictions_040	Template(present) can't be parameter to a template(omit)	Clause 15.8	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
41	NegSem_1508_TemplateRestrictions_041	Unrestricted template cannot be parameter to template(value)	Clause 15.8	m	y
42	NegSem_1508_TemplateRestrictions_042	Template(present) cannot be parameter to template(value)	Clause 15.8	m	y
43	NegSem_1508_TemplateRestrictions_043	Template(present) cannot be parameter to template(omit)	Clause 15.8	m	y
44	NegSem_1508_TemplateRestrictions_044	The restrictiveness of parameters template(value) → template(present) is handled correctly.	Clause 15.8	m	y
45	NegSem_1508_TemplateRestrictions_045	The restrictiveness of parameters template(value) → template(omit) is handled correctly.	Clause 15.8	m	y
46	NegSem_1508_TemplateRestrictions_046	The restrictiveness of parameters template(value) → template is handled correctly.	Clause 15.8	m	y
47	NegSem_1508_TemplateRestrictions_047	The restrictiveness of parameters template(omit) → template(present) is handled correctly.	Clause 15.8	m	y
48	NegSem_1508_TemplateRestrictions_048	The restrictiveness of parameters template(omit) → template(present) is handled correctly.	Clause 15.8	m	y
49	NegSem_1508_TemplateRestrictions_049	The restrictiveness of parameters template(omit) → template(present) is handled correctly.	Clause 15.8	m	y
50	NegSem_1508_TemplateRestrictions_050	Decoded content match is not allowed for omit template restriction	Clause 15.8	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
51	NegSem_1508_TemplateRestrictions_051	Decoded content match is not allowed for omit template restriction	Clause 15.8	m	y
52	Sem_1508_TemplateRestrictions_001	A value can be assigned to a template(omit) variable.	Clause 15.8	m	y
53	Sem_1508_TemplateRestrictions_002	A template(omit) can be assigned to a template(omit) variable.	Clause 15.8	m	y
54	Sem_1508_TemplateRestrictions_003	A template(value) can be assigned to a template(omit) variable.	Clause 15.8	m	y
55	Sem_1508_TemplateRestrictions_004	A value can be assigned to a template(value) variable.	Clause 15.8	m	y
56	Sem_1508_TemplateRestrictions_005	A template(value) can be assigned to a template(value) variable.	Clause 15.8	m	y
57	Sem_1508_TemplateRestrictions_006	A value can be assigned to a template(present) variable.	Clause 15.8	m	y
58	Sem_1508_TemplateRestrictions_007	A template(omit) can be assigned to a template(present) variable.	Clause 15.8	m	y
59	Sem_1508_TemplateRestrictions_008	A template(value) can be assigned to a template(present) variable.	Clause 15.8	m	y
60	Sem_1508_TemplateRestrictions_009	A template(present) can be assigned to a template(present) variable.	Clause 15.8	m	y
61	Sem_1508_TemplateRestrictions_010	A value can be assigned to a template variable.	Clause 15.8	m	y
62	Sem_1508_TemplateRestrictions_011	A template(omit) can be assigned to a template variable.	Clause 15.8	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
63	Sem_1508_TemplateRestrictions_012	A template(value) can be assigned to a template variable.	Clause 15.8	m	y
64	Sem_1508_TemplateRestrictions_013	A template(present) can be assigned to a template variable.	Clause 15.8	m	y
65	Sem_1508_TemplateRestrictions_014	A template can be assigned to a template variable.	Clause 15.8	m	y
66	Sem_1508_TemplateRestrictions_015	A base template can be modified without restrictions.	Clause 15.8	m	y
67	Sem_1508_TemplateRestrictions_016	A base template can be modified with template(present) restriction.	Clause 15.8	m	y
68	Sem_1508_TemplateRestrictions_017	A base template can be modified with template(omit) restriction.	Clause 15.8	m	y
69	Sem_1508_TemplateRestrictions_018	A base template can be modified with template(value) restriction.	Clause 15.8	m	y
70	Sem_1508_TemplateRestrictions_019	A template(present) base template can be modified with template(present) restriction.	Clause 15.8	m	y
71	Sem_1508_TemplateRestrictions_020	A template(present) base template can be modified with template(value) restriction.	Clause 15.8	m	y
72	Sem_1508_TemplateRestrictions_021	A template(omit) base template can be modified with template(omit) restriction.	Clause 15.8	m	y
73	Sem_1508_TemplateRestrictions_022	A template(omit) base template can be modified with template(value) restriction.	Clause 15.8	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
74	Sem_1508_TemplateRestrictions_023	A template(value) base template can be modified with template(value) restriction.	Clause 15.8	m	y
75	Sem_1508_TemplateRestrictions_024	Template(present) base templates are allowed to be modified to template(omit).	Clause 15.8	m	y
76	Sem_1508_TemplateRestrictions_025	Template(omit) base templates are allowed to be modified to template(present).	Clause 15.8	m	y
77	Sem_1508_TemplateRestrictions_026	Template(value) base templates are allowed to be modified to template(present).	Clause 15.8	m	y
78	Sem_1508_TemplateRestrictions_027	Template(value) base templates are allowed to be modified to template(omit).	Clause 15.8	m	y
79	Sem_1508_TemplateRestrictions_028	Template(value) base templates are allowed to be modified to template.	Clause 15.8	m	y
80	Sem_1508_TemplateRestrictions_029	Template(omit) base templates are allowed to be modified to template.	Clause 15.8	m	y
81	Sem_1508_TemplateRestrictions_030	Template(present) base templates are allowed to be modified to template.	Clause 15.8	m	y
82	Sem_1508_TemplateRestrictions_031	Template (omit) can be parameter to template(present) if it contains omit	Clause 15.8	m	y
83	Sem_1508_TemplateRestrictions_032	An unrestricted template can't be parameter to template(present) if it contains omit	Clause 15.8	m	y
84	Sem_1508_TemplateRestrictions_033	An unrestricted template can be parameter to template(present)	Clause 15.8	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
85	Sem_1508_TemplateRestrictions_034	Template (omit) can be parameter to template(present)	Clause 15.8	m	y
86	Sem_1508_TemplateRestrictions_035	Template(omit) can be parameter to template(value) if it is omit	Clause 15.8	m	y
87	Sem_1508_TemplateRestrictions_036	Template(omit) can be parameter to template(value)	Clause 15.8	m	y
88	Sem_1508_TemplateRestrictions_037	Decoded content match is allowed for present template restriction	Clause 15.8	m	y
89	Syn_1508_TemplateRestrictions_001	Template(omit) is accepted with value omit value.	Clause 15.8	m	y
90	Syn_1508_TemplateRestrictions_002	Template(omit) is accepted with a concrete value.	Clause 15.8	m	y
91	Syn_1508_TemplateRestrictions_003	Template(value) is accepted with a concrete value.	Clause 15.8	m	y
92	Syn_1508_TemplateRestrictions_004	Template(present) is accepted with a concrete value.	Clause 15.8	m	y

## 5.92. Match operation

Table 91. Match operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_1509_MatchOperation_001	The <b>match</b> operation refuses two templates as actual parameters.	Clause 15.9	m	y
2	NegSem_1509_MatchOperation_002	The <b>match</b> operation refuses not initialized operands	Clause 15.9	m	n
3	NegSem_1509_MatchOperation_003	The <b>match</b> operation works correctly with enums	Clause 15.9	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
4	Sem_1509_MatchOperation_001	The <b>match</b> operation works as expected on a template with range restriction when the tested value is inside the range.	Clause 15.9	m	y
5	Sem_1509_MatchOperation_002	The <b>match</b> operation works as expected on a template with range restriction when the tested value is outside the range.	Clause 15.9	m	y
6	Sem_1509_MatchOperation_003	The <b>match</b> operation works correctly on records in the positive case.	Clause 15.9	m	y
7	Sem_1509_MatchOperation_004	The <b>match</b> operation works correctly on records in the negative case.	Clause 15.9	m	y
8	Sem_1509_MatchOperation_005	The <b>match</b> operation works correctly if the types are incompatible.	Clause 15.9	m	n
9	Sem_1509_MatchOperation_006	The <b>match</b> operation works correctly on records with optional fields in the positive case.	Clause 15.9	m	y
10	Sem_1509_MatchOperation_007	The <b>match</b> operation works correctly on sets in the positive case.	Clause 15.9	m	y
11	Sem_1509_MatchOperation_008	The <b>match</b> operation works correctly on sets in the negative case.	Clause 15.9	m	y
12	Sem_1509_MatchOperation_009	The <b>match</b> operation works correctly if the set types are incompatible.	Clause 15.9	m	n
13	Sem_1509_MatchOperation_010	The <b>match</b> operation works correctly on sets with optional fields in the positive case.	Clause 15.9	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
14	Sem_1509_MatchOperation_011	Matching a value expression against a template instance which evaluates to the omit matching mechanism shall return false	Clause 15.9	m	y
15	Sem_1509_MatchOperation_012	If the <b>expression</b> -parameter evaluates to a literal value without explicit or implicit identification of its type, the type of the template <b>instance</b> -parameter shall be used as the type governor for the <b>expression</b> -parameter.	Clause 15.9	m	y
16	Sem_1509_MatchOperation_013	If the <b>expression</b> -parameter evaluates to a literal value without explicit or implicit identification of its type, the type of the template instance-parameter shall be used as the type governor for the <b>expression</b> -parameter	Clause 15.9	m	y
17	Sem_1509_MatchOperation_014	The <b>match</b> operation works correctly with enums	Clause 15.9	m	n
18	Sem_1509_MatchOperation_015	The <b>match</b> operation works correctly with enums	Clause 15.9	m	y
19	Sem_1509_MatchOperation_016	The <b>match</b> operation works correctly with enums	Clause 15.9	m	y

## 5.93. Valueof operation

Table 92. Valueof operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_1510_ValueOfOperation_001	The <code>valueof</code> function works correctly on omit.	Clause 15.10	m	y
2	NegSem_1510_ValueOfOperation_002	The <code>valueof</code> function works correctly on templates with wildcards.	Clause 15.10	m	y
3	NegSem_1510_ValueOfOperation_003	The <code>valueof</code> function works correctly on regular value templates.	Clause 15.10	m	y
4	NegSem_1510_ValueOfOperation_004	The <code>valueof</code> function works correctly on range templates.	Clause 15.10	m	y
5	NegSem_1510_ValueOfOperation_005	check that runtime error occurs if <code>valueof</code> is applied to uninitialized template	Clause 15.10	m	y
6	NegSem_1510_ValueOfOperation_006	check that runtime error occurs if <code>valueof</code> is applied to partially initialized template	Clause 15.10	m	y
7	Sem_1510_ValueOfOperation_001	The <code>valueof</code> operation works as expected for fully initialized templates.	Clause 15.10	m	y

## 5.94. Concatenating templates of string and list types

Table 93. Concatenating templates of string and list types

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_1511_ConcatenatingTemplatesOfStringAndListTypes_001	Concatenation of octetstring types yields an even number of digits.	Clause 15.11	m	y
2	NegSem_1511_ConcatenatingTemplatesOfStringAndListTypes_002	Concatenation of strings types yields an error if specified ranges are not fixed length.	Clause 15.11	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
3	NegSem_1511_ConcatenatingTemplatesOfStringAndListTypes_003	A simple concatenation of non-wildcard octetstring must not yield in a non-even number of hexadecimals.	Clause 15.11	m	y
4	NegSem_1511_ConcatenatingTemplatesOfStringAndListTypes_004	The inline template definitions are correctly concatenated.	Clause 15.11	m	y
5	NegSem_1511_ConcatenatingTemplatesOfStringAndListTypes_005	The inline template definitions are correctly concatenated.	Clause 15.11	m	y
6	NegSem_1511_ConcatenatingTemplatesOfStringAndListTypes_006	Concatenation of octetstring types and ? patterns works as expected.	Clause 15.11	m	n
7	Sem_1511_ConcatenatingTemplatesOfStringAndListTypes_001	Concatenation of charstring types works as expected (variant 1).	Clause 15.11	m	y
8	Sem_1511_ConcatenatingTemplatesOfStringAndListTypes_002	Concatenation of octetstring types works as expected (variant 2).	Clause 15.11	m	y
9	Sem_1511_ConcatenatingTemplatesOfStringAndListTypes_003	Concatenation of bitstring types works as expected.	Clause 15.11	m	n
10	Sem_1511_ConcatenatingTemplatesOfStringAndListTypes_004	Concatenation of octetstring types works as expected (variant 1).	Clause 15.11	m	n

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
11	Sem_1511_ConcatenatingTemplatesOfStringAndListTypes_005	Concatenation of octetstring types works as expected (variant 2).	Clause 15.11	m	n
12	Sem_1511_ConcatenatingTemplatesOfStringAndListTypes_006	A concatenation of charstrings with a fixed length AnyValueOrNone be matched.	Clause 15.11	m	y
13	Sem_1511_ConcatenatingTemplatesOfStringAndListTypes_007	Concatenations of record of charstrings are accepted.	Clause 15.11	m	n
14	Sem_1511_ConcatenatingTemplatesOfStringAndListTypes_008	Concatenations of record of charstrings work when parameterized.	Clause 15.11	m	n
15	Sem_1511_ConcatenatingTemplatesOfStringAndListTypes_009	Concatenations of set of integers are accepted.	Clause 15.11	m	n
16	Sem_1511_ConcatenatingTemplatesOfStringAndListTypes_010	The inline template definitions are correctly concatenated.	Clause 15.11	m	y
17	Sem_1511_ConcatenatingTemplatesOfStringAndListTypes_011	Concatenation of octetstring types works as expected (matching patterns in quotation).	Clause 15.11	m	n
18	Sem_1511_ConcatenatingTemplatesOfStringAndListTypes_012	Concatenation of octetstring types and ? patterns works as expected.	Clause 15.11	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
19	Sem_1511_ConcatenatingTemplatesOfStringAndListTypes_013	Concatenation of octetstring types and ? patterns works as expected.	Clause 15.11	m	y
20	Sem_1511_ConcatenatingTemplatesOfStringAndListTypes_014	Concatenation of charstring and universal charstring types are concatenated as expected.	Clause 15.11	m	y
21	Sem_1511_ConcatenatingTemplatesOfStringAndListTypes_015	Concatenations of record of charstrings work when parameterized	Clause 15.11	m	n

## 5.95. Functions

Table 94. Functions

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_1601_toplevel_001	The IUT correctly handles function definitions	Clause 16.1	m	y
2	NegSem_1601_toplevel_002	The IUT correctly handles function definitions	Clause 16.1	m	y
3	NegSem_1601_toplevel_003	The IUT correctly handles function definitions	Clause 16.1	m	y
4	NegSem_1601_toplevel_004	The IUT correctly handles function definitions	Clause 16.1	m	y
5	NegSem_1601_toplevel_005	The IUT correctly handles function definitions	Clause 16.1	m	y
6	NegSem_1601_toplevel_006	The IUT correctly handles function definitions	Clause 16.1	m	y
7	Sem_1601_toplevel_001	The IUT correctly handles function definitions	Clause 16.1	m	y
8	Sem_1601_toplevel_002	The IUT correctly handles function definitions	Clause 16.1	m	y
9	Sem_1601_toplevel_003	The IUT correctly handles function definitions	Clause 16.1	m	y

## 5.96. Invoking functions

Table 95. Invoking functions

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_160101_invoking_functions_001	The IUT correctly handles function invocations	Clause 16.1.1	m	y

## 5.97. Predefined functions

Table 96. Predefined functions

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_160102_predefined_functions_001	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
2	NegSem_160102_predefined_functions_002	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
3	NegSem_160102_predefined_functions_003	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
4	NegSem_160102_predefined_functions_004	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
5	NegSem_160102_predefined_functions_005	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
6	NegSem_160102_predefined_functions_006	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
7	NegSem_160102_predefined_functions_007	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
8	NegSem_160102_predefined_functions_008	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
9	NegSem_160102_predefined_functions_009	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	n
10	NegSem_160102_predefined_functions_010	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
11	NegSem_160102_predefined_functions_017	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
12	NegSem_160102_predefined_functions_018	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
13	NegSem_160102_predefined_functions_019	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
14	NegSem_160102_predefined_functions_021	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
15	NegSem_160102_predefined_functions_022	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
16	NegSem_160102_predefined_functions_023	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
17	NegSem_160102_predefined_functions_024	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
18	NegSem_1601_02_predefined_functions_02_5	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
19	NegSem_1601_02_predefined_functions_02_6	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
20	NegSem_1601_02_predefined_functions_02_7	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
21	NegSem_1601_02_predefined_functions_02_8	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	n
22	NegSem_1601_02_predefined_functions_02_9	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
23	NegSem_1601_02_predefined_functions_03_0	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
24	NegSem_1601_02_predefined_functions_03_1	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
25	NegSem_1601_02_predefined_functions_03_2	An error is generated when the parameter of the <b>encvalue</b> function contains a matching symbol	Clause 16.1.2	m	y
26	NegSem_1601_02_predefined_functions_03_3	An error is detected when the parameter of the <b>encvalue</b> function contains an uninitialized value	Clause 16.1.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
27	NegSem_160102_predefined_functions_034	An error is detected when the parameter of the <b>encvalue</b> function contains a partially initialized value	Clause 16.1.2	m	y
28	NegSem_160102_predefined_functions_035	An error is detected when the first parameter of the <b>decvalue</b> function contains an uninitialized value	Clause 16.1.2	m	y
29	NegSem_160102_predefined_functions_036	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
30	NegSem_160102_predefined_functions_037	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
31	NegSem_160102_predefined_functions_038	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	n
32	NegSem_160102_predefined_functions_039	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	n
33	NegSem_160102_predefined_functions_040	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	n
34	Sem_160102_predefined_functions_001	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
35	Sem_160102_predefined_functions_002	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	n
36	Sem_160102_predefined_functions_003	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
37	Sem_160102_p redefined_functions_004	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
38	Sem_160102_p redefined_functions_005	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	n
39	Sem_160102_p redefined_functions_006	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
40	Sem_160102_p redefined_functions_007	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	n
41	Sem_160102_p redefined_functions_008	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
42	Sem_160102_p redefined_functions_009	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
43	Sem_160102_p redefined_functions_010	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
44	Sem_160102_p redefined_functions_011	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
45	Sem_160102_p redefined_functions_012	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
46	Sem_160102_p redefined_functions_013	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
47	Sem_160102_p redefined_functions_014	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
48	Sem_160102_p redefined_functions_015	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
49	Sem_160102_p redefined_functions_016	Predefined <b>encvalue</b> function works correctly (as specified in Annex C.5.1)	Clause 16.1.2	m	y
50	Sem_160102_p redefined_functions_017	Predefined <b>decvalue</b> function performs full decoding correctly	Clause 16.1.2	m	y
51	Sem_160102_p redefined_functions_018	Predefined <b>decvalue</b> function performs decoding if there are more bits than needed	Clause 16.1.2	m	y
52	Sem_160102_p redefined_functions_019	Predefined <b>decvalue</b> function works properly in case of decoding failure	Clause 16.1.2	m	n
53	Sem_160102_p redefined_functions_020	Predefined <b>decvalue</b> function works properly in case of not enough bits	Clause 16.1.2	m	n
54	Sem_160102_p redefined_functions_021	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
55	Sem_160102_p redefined_functions_022	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	n
56	Sem_160102_p redefined_functions_023	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	n
57	Sem_160102_p redefined_functions_024	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	n

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
58	Sem_160102_p redefined_functions_025	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C.33)	Clause 16.1.2	m	y
59	Sem_160102_p redefined_functions_026	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
60	Sem_160102_p redefined_functions_027	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
61	Sem_160102_p redefined_functions_028	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
62	Sem_160102_p redefined_functions_029	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
63	Sem_160102_p redefined_functions_030	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
64	Sem_160102_p redefined_functions_031	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
65	Sem_160102_p redefined_functions_032	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
66	Sem_160102_p redefined_functions_033	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
67	Sem_160102_p redefined_functions_034	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
68	Sem_160102_p redefined_functions_035	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
69	Sem_160102_p redefined_functions_036	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
70	Sem_160102_p redefined_functions_037	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
71	Sem_160102_p redefined_functions_038	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
72	Sem_160102_p redefined_functions_039	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
73	Sem_160102_p redefined_functions_040	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
74	Sem_160102_p redefined_functions_041	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
75	Sem_160102_p redefined_functions_042	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
76	Sem_160102_p redefined_functions_043	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
77	Sem_160102_p redefined_functions_044	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
78	Sem_160102_p redefined_functions_045	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
79	Sem_160102_p redefined_functions_046	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
80	Sem_160102_p redefined_functions_047	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C.3.5)	Clause 16.1.2	m	y
81	Sem_160102_p redefined_functions_048	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C.3.5)	Clause 16.1.2	m	y
82	Sem_160102_p redefined_functions_049	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C.3.5)	Clause 16.1.2	m	y
83	Sem_160102_p redefined_functions_050	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C.3.5)	Clause 16.1.2	m	y
84	Sem_160102_p redefined_functions_051	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C.3.5)	Clause 16.1.2	m	y
85	Sem_160102_p redefined_functions_052	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C.3.5)	Clause 16.1.2	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
86	Sem_160102_p redefined_functions_053	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C.3.5)	Clause 16.1.2	m	y
87	Sem_160102_p redefined_functions_054	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C.3.5)	Clause 16.1.2	m	y
88	Sem_160102_p redefined_functions_055	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C.3.5)	Clause 16.1.2	m	y
89	Sem_160102_p redefined_functions_056	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C.3.5)	Clause 16.1.2	m	n
90	Sem_160102_p redefined_functions_057	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C.3.5)	Clause 16.1.2	m	y
91	Sem_160102_p redefined_functions_058	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C.3.5)	Clause 16.1.2	m	y
92	Sem_160102_p redefined_functions_059	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C.3.5)	Clause 16.1.2	m	y
93	Sem_160102_p redefined_functions_060	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C.3.5)	Clause 16.1.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
94	Sem_160102_p redefined_functions_061	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C.3.5)	Clause 16.1.2	m	y
95	Sem_160102_p redefined_functions_062	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C.3.5)	Clause 16.1.2	m	y
96	Sem_160102_p redefined_functions_063	Predefined <b>encvalue_unichar</b> function works properly in case of encoding universal charstring	Clause 16.1.2	m	y
97	Sem_160102_p redefined_functions_064	Predefined <b>encvalue_unichar</b> function works properly in case of encoding universal charstring	Clause 16.1.2	m	y
98	Sem_160102_p redefined_functions_065	Predefined <b>decvalue</b> function works properly in case of encoding universal charstring	Clause 16.1.2	m	y
99	Sem_160102_p redefined_functions_066	Predefined <b>encvalue_unichar</b> function works properly in case of encoding universal charstring	Clause 16.1.2	m	y
100	Sem_160102_p redefined_functions_067	Predefined <b>encvalue_unichar</b> function works properly in case of encoding universal charstring	Clause 16.1.2	m	y
101	Sem_160102_p redefined_functions_068	Predefined <b>encvalue_unichar</b> function works properly in case of encoding universal charstring	Clause 16.1.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
102	Sem_160102_p redefined_functions_069	Predefined <code>encvalue_unichar</code> function works properly in case of encoding universal charstring	Clause 16.1.2	m	y
103	Sem_160102_p redefined_functions_070	Predefined <code>decvalue_unichar</code> function works properly	Clause 16.1.2	m	y
104	Sem_160102_p redefined_functions_071	Predefined <code>decvalue_unichar</code> function works properly	Clause 16.1.2	m	y
105	Sem_160102_p redefined_functions_072	Predefined <code>decvalue_unichar</code> function works properly	Clause 16.1.2	m	y
106	Sem_160102_p redefined_functions_073	Predefined <code>decvalue_unichar</code> function works properly	Clause 16.1.2	m	y
107	Sem_160102_p redefined_functions_074	Predefined <code>decvalue_unichar</code> function works properly	Clause 16.1.2	m	y
108	Sem_160102_p redefined_functions_075	Predefined <code>decvalue_unichar</code> function works properly	Clause 16.1.2	m	y
109	Sem_160102_p redefined_functions_076	Predefined <code>decvalue_unichar</code> function works properly	Clause 16.1.2	m	y
110	Sem_160102_p redefined_functions_077	Predefined <code>decvalue_unichar</code> function works properly	Clause 16.1.2	m	y
111	Sem_160102_p redefined_functions_078	Predefined <code>decvalue_unichar</code> function works properly	Clause 16.1.2	m	y
112	Sem_160102_p redefined_functions_079	Predefined <code>decvalue_unichar</code> function works properly	Clause 16.1.2	m	y
113	Sem_160102_p redefined_functions_080	Predefined <code>decvalue</code> and <code>decvalue_unichar</code> function works properly in case of uninitialized encode value is given	Clause 16.1.2	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
114	Sem_160102_p redefined_functions_081	Predefined function <code>get_stringencoding</code> works properly	Clause 16.1.2	m	y
115	Sem_160102_p redefined_functions_082	Predefined function for removing Byte order mark works properly	Clause 16.1.2	m	y
116	Sem_160102_p redefined_functions_083	Predefined function <code>isvalue()</code> works properly	Clause 16.1.2	m	y
117	Sem_160102_p redefined_functions_084	Predefined function <code>isvalue()</code> works properly	Clause 16.1.2	m	y
118	Sem_160102_p redefined_functions_085	Predefined function <code>isvalue()</code> works properly	Clause 16.1.2	m	n
119	Sem_160102_p redefined_functions_086	Predefined function <code>isvalue()</code> works properly	Clause 16.1.2	m	y
120	Sem_160102_p redefined_functions_087	Predefined function <code>isvalue()</code> works properly	Clause 16.1.2	m	y
121	Sem_160102_p redefined_functions_088	Predefined function <code>isvalue()</code> works properly	Clause 16.1.2	m	y
122	Sem_160102_p redefined_functions_089	Predefined function <code>isvalue()</code> works properly	Clause 16.1.2	m	y
123	Sem_160102_p redefined_functions_090	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C.4.1)	Clause 16.1.2	m	y
124	Sem_160102_p redefined_functions_091	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
125	Sem_160102_p redefined_functions_092	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
126	Sem_160102_p redefined_functions_093	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	n
127	Sem_160102_p redefined_functions_094	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	n
128	Sem_160102_p redefined_functions_095	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
129	Sem_160102_p redefined_functions_096	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
130	Sem_160102_p redefined_functions_097	The IUT recognizes predefined functions and correctly evaluates them (as specified by Annex C)	Clause 16.1.2	m	y
131	Sem_160102_p redefined_functions_098	That predefined <code>encvalue_unichar</code> function works properly in case of encoding universal charstring	Clause 16.1.2	m	y
132	Sem_160102_p redefined_functions_099	That predefined <code>encvalue_unichar</code> function works properly in case of encoding universal charstring	Clause 16.1.2	m	y

## 5.98. External functions

Table 97. External functions

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_160103_external_functions_001	The IUT recognizes external functions	Clause 16.1.3	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
2	Sem_160103_external_functions_001	The IUT recognizes external functions	Clause 16.1.3	m	y
3	Sem_160103_external_functions_002	The IUT recognizes external functions	Clause 16.1.3	m	y

## 5.99. Invoking function from specific places

Table 98. Invoking function from specific places

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_160104_invoking_functions_from_specific_places_001	The IUT recognizes restrictions described in section 16.1.4. STF409 assumes that the list given in section 16.1.4 describes mandatory restrictions	Clause 16.1.4	m	n
2	NegSem_160104_invoking_functions_from_specific_places_002	The IUT recognizes restrictions described in section 16.1.4. STF409 assumes that the list given in section 16.1.4 describes mandatory restrictions	Clause 16.1.4	m	y
3	NegSem_160104_invoking_functions_from_specific_places_003	The IUT recognizes restrictions described in section 16.1.4. STF409 assumes that the list given in section 16.1.4 describes mandatory restrictions	Clause 16.1.4	m	y
4	NegSem_160104_invoking_functions_from_specific_places_004	The IUT recognizes restrictions described in section 16.1.4. STF409 assumes that the list given in section 16.1.4 describes mandatory restrictions	Clause 16.1.4	m	y
5	NegSem_160104_invoking_functions_from_specific_places_005	verify that the <b>create</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
6	NegSem_160104_invoking_functions_from_specific_places_006	verify that the <b>component.start</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
7	NegSem_160104_invoking_functions_from_specific_places_007	verify that the <b>component.stop</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
8	NegSem_160104_invoking_functions_from_specific_places_008	verify that the <b>kill</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
9	NegSem_160104_invoking_functions_from_specific_places_009	verify that the <b>component.running</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
10	NegSem_160104_invoking_functions_from_specific_places_010	verify that the <b>alive</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
11	NegSem_160104_invoking_functions_from_specific_places_011	verify that the <b>done</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
12	NegSem_160104_invoking_functions_from_specific_places_012	verify that the <b>killed</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
13	NegSem_160104_invoking_functions_from_specific_places_013	verify that the <b>port.start</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
14	NegSem_160104_invoking_functions_from_specific_places_014	verify that the <b>port.stop</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
15	NegSem_160104_invoking_functions_from_specific_places_015	verify that the <b>halt</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
16	NegSem_160104_invoking_functions_from_specific_places_016	verify that the <b>clear</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
17	NegSem_160104_invoking_functions_from_specific_places_017	verify that the <b>checkstate</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
18	NegSem_160104_invoking_functions_from_specific_places_018	verify that the <b>send</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
19	NegSem_160104_invoking_functions_from_specific_places_019	verify that the <b>receive</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
20	NegSem_160104_invoking_functions_from_specific_places_020	verify that the <b>trigger</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
21	NegSem_160104_invoking_functions_from_specific_places_021	verify that the <b>call</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
22	NegSem_160104_invoking_functions_from_specific_places_022	verify that the <b>getcall</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
23	NegSem_160104_invoking_functions_from_specific_places_023	verify that the <b>reply</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
24	NegSem_160104_invoking_functions_from_specific_places_024	verify that the <b>getreply</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
25	NegSem_160104_invoking_functions_from_specific_places_025	verify that the <b>raise</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
26	NegSem_160104_invoking_functions_from_specific_places_026	verify that the <b>catch</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
27	NegSem_160104_invoking_functions_from_specific_places_027	verify that the <b>check</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
28	NegSem_160104_invoking_functions_from_specific_places_028	verify that the <b>connect</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
29	NegSem_160104_invoking_functions_from_specific_places_029	verify that the <b>disconnect</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
30	NegSem_160104_invoking_functions_from_specific_places_030	verify that the <b>map</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
31	NegSem_160104_invoking_functions_from_specific_places_031	verify that the <b>unmap</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
32	NegSem_160104_invoking_functions_from_specific_places_032	verify that the <b>action</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
33	NegSem_160104_invoking_functions_from_specific_places_033	verify that the <b>timer.start</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
34	NegSem_160104_invoking_functions_from_specific_places_034	verify that the <b>timer.stop</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
35	NegSem_160104_invoking_functions_from_specific_places_035	verify that the <b>timer.running</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
36	NegSem_160104_invoking_functions_from_specific_places_036	verify that the <b>read</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
37	NegSem_160104_invoking_functions_from_specific_places_037	verify that the <b>timeout</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
38	NegSem_160104_invoking_functions_from_specific_places_038	verify that a non-deterministic external function call cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
39	NegSem_160104_invoking_functions_from_specific_places_039	verify that the predefined <b>rnd</b> function cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
40	NegSem_160104_invoking_functions_from_specific_places_040	verify a function called during receiving operation cannot contain an assignment of a component variable (in templates)	Clause 16.1.4	m	n
41	NegSem_160104_invoking_functions_from_specific_places_041	verify a function called during receiving operation cannot contain a component variable used as an actual <b>out</b> parameter (in templates)	Clause 16.1.4	m	n
42	NegSem_160104_invoking_functions_from_specific_places_042	verify a function called during receiving operation cannot contain a component variable used as an actual <b>inout</b> parameter (in templates)	Clause 16.1.4	m	n
43	NegSem_160104_invoking_functions_from_specific_places_043	verify that the <b>setverdict</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
44	NegSem_160104_invoking_functions_from_specific_places_044	verify that the <b>activate</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
45	NegSem_160104_invoking_functions_from_specific_places_045	verify that the <b>deactivate</b> operation cannot be used in a function called during receiving operation (in templates)	Clause 16.1.4	m	n
46	NegSem_160104_invoking_functions_from_specific_places_046	verify that the <b>create</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
47	NegSem_160104_invoking_functions_from_specific_places_047	verify that the <b>component.start</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
48	NegSem_160104_invoking_functions_from_specific_places_048	verify that the <b>component.stop</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
49	NegSem_160104_invoking_functions_from_specific_places_049	verify that the <b>kill</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
50	NegSem_160104_invoking_functions_from_specific_places_050	verify that the <b>component.running</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
51	NegSem_160104_invoking_functions_from_specific_places_051	verify that the <b>alive</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
52	NegSem_160104_invoking_functions_from_specific_places_052	verify that the <b>done</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
53	NegSem_160104_invoking_functions_from_specific_places_053	verify that the <b>killed</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
54	NegSem_160104_invoking_functions_from_specific_places_054	verify that the <b>port.start</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
55	NegSem_160104_invoking_functions_from_specific_places_055	verify that the <b>port.stop</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
56	NegSem_160104_invoking_functions_from_specific_places_056	verify that the <b>halt</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
57	NegSem_160104_invoking_functions_from_specific_places_057	verify that the <b>clear</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
58	NegSem_160104_invoking_functions_from_specific_places_058	verify that the <b>checkstate</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
59	NegSem_160104_invoking_functions_from_specific_places_059	verify that the <b>send</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
60	NegSem_160104_invoking_functions_from_specific_places_060	verify that the <b>receive</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
61	NegSem_160104_invoking_functions_from_specific_places_061	verify that the <b>trigger</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
62	NegSem_160104_invoking_functions_from_specific_places_062	verify that the <b>call</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
63	NegSem_160104_invoking_functions_from_specific_places_063	verify that the <b>getcall</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
64	NegSem_160104_invoking_functions_from_specific_places_064	verify that the <b>reply</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
65	NegSem_160104_invoking_functions_from_specific_places_065	verify that the <b>getreply</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
66	NegSem_160104_invoking_functions_from_specific_places_066	verify that the <b>raise</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
67	NegSem_160104_invoking_functions_from_specific_places_067	verify that the <b>catch</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
68	NegSem_160104_invoking_functions_from_specific_places_068	verify that the <b>check</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
69	NegSem_160104_invoking_functions_from_specific_places_069	verify that the <b>connect</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
70	NegSem_160104_invoking_functions_from_specific_places_070	verify that the <b>disconnect</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
71	NegSem_160104_invoking_functions_from_specific_places_071	verify that the <b>map</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
72	NegSem_160104_invoking_functions_from_specific_places_072	verify that the <b>unmap</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
73	NegSem_160104_invoking_functions_from_specific_places_073	verify that the <b>action</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
74	NegSem_160104_invoking_functions_from_specific_places_074	verify that the <b>timer.start</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
75	NegSem_160104_invoking_functions_from_specific_places_075	verify that the <b>timer.stop</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
76	NegSem_160104_invoking_functions_from_specific_places_076	verify that the <b>timer.running</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
77	NegSem_160104_invoking_functions_from_specific_places_077	verify that the <b>read</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
78	NegSem_160104_invoking_functions_from_specific_places_078	verify that the <b>timeout</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
79	NegSem_160104_invoking_functions_from_specific_places_079	verify that a non-deterministic external function call cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
80	NegSem_160104_invoking_functions_from_specific_places_080	verify that the predefined <b>rnd</b> function cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
81	NegSem_160104_invoking_functions_from_specific_places_081	verify a function called during receiving operation cannot contain an assignment of a component variable (in template fields)	Clause 16.1.4	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
82	NegSem_160104_invoking_functions_from_specific_places_082	verify a function called during receiving operation cannot contain a component variable used as an actual <b>out</b> parameter (in template fields)	Clause 16.1.4	m	n
83	NegSem_160104_invoking_functions_from_specific_places_083	verify a function called during receiving operation cannot contain a component variable used as an actual <b>inout</b> parameter (in template fields)	Clause 16.1.4	m	n
84	NegSem_160104_invoking_functions_from_specific_places_084	verify that the <b>setverdict</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
85	NegSem_160104_invoking_functions_from_specific_places_085	verify that the <b>activate</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
86	NegSem_160104_invoking_functions_from_specific_places_086	verify that the <b>deactivate</b> operation cannot be used in a function called during receiving operation (in template fields)	Clause 16.1.4	m	n
87	NegSem_160104_invoking_functions_from_specific_places_087	verify that the <b>create</b> operation cannot be used in a function called during receiving operation (in in-line templates)	Clause 16.1.4	m	y
88	NegSem_160104_invoking_functions_from_specific_places_088	verify that the <b>component.start</b> operation cannot be used in a function called during receiving operation (in in-line templates)	Clause 16.1.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
89	NegSem_160104_invoking_functions_from_specific_places_089	verify that the <b>component.stop</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
90	NegSem_160104_invoking_functions_from_specific_places_090	verify that the <b>kill</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
91	NegSem_160104_invoking_functions_from_specific_places_091	verify that the <b>component.running</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
92	NegSem_160104_invoking_functions_from_specific_places_092	verify that the <b>alive</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
93	NegSem_160104_invoking_functions_from_specific_places_093	verify that the <b>done</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
94	NegSem_160104_invoking_functions_from_specific_places_094	verify that the <b>killed</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
95	NegSem_160104_invoking_functions_from_specific_places_095	verify that the <b>port.start</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
96	NegSem_160104_invoking_functions_from_specific_places_096	verify that the <b>port.stop</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
97	NegSem_160104_invoking_functions_from_specific_places_097	verify that the <b>halt</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
98	NegSem_160104_invoking_functions_from_specific_places_098	verify that the <b>clear</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
99	NegSem_160104_invoking_functions_from_specific_places_099	verify that the <b>checkstate</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
100	NegSem_160104_invoking_functions_from_specific_places_100	verify that the <b>send</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
101	NegSem_160104_invoking_functions_from_specific_places_101	verify that the <b>receive</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
102	NegSem_160104_invoking_functions_from_specific_places_102	verify that the <b>trigger</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
103	NegSem_160104_invoking_functions_from_specific_places_103	verify that the <b>call</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
104	NegSem_160104_invoking_functions_from_specific_places_104	verify that the <b>getcall</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
105	NegSem_160104_invoking_functions_from_specific_places_105	verify that the <b>reply</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
106	NegSem_160104_invoking_functions_from_specific_places_106	verify that the <b>getreply</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
107	NegSem_160104_invoking_functions_from_specific_places_107	verify that the <b>raise</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
108	NegSem_160104_invoking_functions_from_specific_places_108	verify that the <b>catch</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
109	NegSem_160104_invoking_functions_from_specific_places_109	verify that the <b>check</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
110	NegSem_160104_invoking_functions_from_specific_places_110	verify that the <b>connect</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
111	NegSem_160104_invoking_functions_from_specific_places_111	verify that the <b>disconnect</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
112	NegSem_160104_invoking_functions_from_specific_places_112	verify that the <b>map</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
113	NegSem_160104_invoking_functions_from_specific_places_113	verify that the <b>unmap</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
114	NegSem_160104_invoking_functions_from_specific_places_114	verify that the <b>action</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
115	NegSem_160104_invoking_functions_from_specific_places_115	verify that the <b>timer.start</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
116	NegSem_160104_invoking_functions_from_specific_places_116	verify that the <b>timer.stop</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
117	NegSem_160104_invoking_functions_from_specific_places_117	verify that the <b>timer.running</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
118	NegSem_160104_invoking_functions_from_specific_places_118	verify that the <b>read</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
119	NegSem_160104_invoking_functions_from_specific_places_119	verify that the <b>timeout</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
120	NegSem_160104_invoking_functions_from_specific_places_120	verify that a non-deterministic external function call cannot be used in a function called during receiving operation (in in-line templates)	Clause 16.1.4	m	y
121	NegSem_160104_invoking_functions_from_specific_places_121	verify that the predefined <b>rnd</b> function cannot be used in a function called during receiving operation (in in-line templates)	Clause 16.1.4	m	y
122	NegSem_160104_invoking_functions_from_specific_places_122	verify a function called during receiving operation cannot contain an assignment of a component variable (in in-line templates)	Clause 16.1.4	m	y
123	NegSem_160104_invoking_functions_from_specific_places_123	verify a function called during receiving operation cannot contain a component variable used as an actual <b>out</b> parameter (in in-line templates)	Clause 16.1.4	m	y
124	NegSem_160104_invoking_functions_from_specific_places_124	verify a function called during receiving operation cannot contain a component variable used as an actual <b>inout</b> parameter (in in-line templates)	Clause 16.1.4	m	y
125	NegSem_160104_invoking_functions_from_specific_places_125	verify that the <b>setverdict</b> operation cannot be used in a function called during receiving operation (in in-line templates)	Clause 16.1.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
126	NegSem_160104_invoking_functions_from_specific_places_126	verify that the <b>activate</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
127	NegSem_160104_invoking_functions_from_specific_places_127	verify that the <b>deactivate</b> operation cannot be used in a function called during receiving operation (in inline templates)	Clause 16.1.4	m	y
128	NegSem_160104_invoking_functions_from_specific_places_128	verify a function called during receiving operation cannot contain an <b>out</b> parameter (in inline templates)	Clause 16.1.4	m	y
129	NegSem_160104_invoking_functions_from_specific_places_129	verify a function called during receiving operation cannot contain an <b>inout</b> parameter (in inline templates)	Clause 16.1.4	m	y
130	NegSem_160104_invoking_functions_from_specific_places_130	verify that the <b>create</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
131	NegSem_160104_invoking_functions_from_specific_places_131	verify that the <b>component.start</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
132	NegSem_160104_invoking_functions_from_specific_places_132	verify that the <b>component.stop</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
133	NegSem_160104_invoking_functions_from_specific_places_133	verify that the <b>kill</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
134	NegSem_160104_invoking_functions_from_specific_places_134	verify that the <b>component.running</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
135	NegSem_160104_invoking_functions_from_specific_places_135	verify that the <b>alive</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
136	NegSem_160104_invoking_functions_from_specific_places_136	verify that the <b>done</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
137	NegSem_160104_invoking_functions_from_specific_places_137	verify that the <b>killed</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
138	NegSem_160104_invoking_functions_from_specific_places_138	verify that the <b>port.start</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
139	NegSem_160104_invoking_functions_from_specific_places_139	verify that the <b>port.stop</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
140	NegSem_160104_invoking_functions_from_specific_places_140	verify that the <b>halt</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
141	NegSem_160104_invoking_functions_from_specific_places_141	verify that the <b>clear</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
142	NegSem_160104_invoking_functions_from_specific_places_142	verify that the <b>checkstate</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
143	NegSem_160104_invoking_functions_from_specific_places_143	verify that the <b>send</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
144	NegSem_160104_invoking_functions_from_specific_places_144	verify that the <b>receive</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
145	NegSem_160104_invoking_functions_from_specific_places_145	verify that the <b>trigger</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
146	NegSem_160104_invoking_functions_from_specific_places_146	verify that the <b>call</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
147	NegSem_160104_invoking_functions_from_specific_places_147	verify that the <b>getcall</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
148	NegSem_160104_invoking_functions_from_specific_places_148	verify that the <b>reply</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
149	NegSem_160104_invoking_functions_from_specific_places_149	verify that the <b>getreply</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
150	NegSem_160104_invoking_functions_from_specific_places_150	verify that the <b>raise</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
151	NegSem_160104_invoking_functions_from_specific_places_151	verify that the <b>catch</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
152	NegSem_160104_invoking_functions_from_specific_places_152	verify that the <b>check</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
153	NegSem_160104_invoking_functions_from_specific_places_153	verify that the <b>connect</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
154	NegSem_160104_invoking_functions_from_specific_places_154	verify that the <b>disconnect</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
155	NegSem_160104_invoking_functions_from_specific_places_155	verify that the <b>map</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
156	NegSem_160104_invoking_functions_from_specific_places_156	verify that the <b>unmap</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
157	NegSem_160104_invoking_functions_from_specific_places_157	verify that the <b>action</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
158	NegSem_160104_invoking_functions_from_specific_places_158	verify that the <code>timer.start</code> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
159	NegSem_160104_invoking_functions_from_specific_places_159	verify that the <code>timer.stop</code> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
160	NegSem_160104_invoking_functions_from_specific_places_160	verify that the <code>timer.running</code> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
161	NegSem_160104_invoking_functions_from_specific_places_161	verify that the <code>read</code> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
162	NegSem_160104_invoking_functions_from_specific_places_162	verify that the <code>timeout</code> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
163	NegSem_160104_invoking_functions_from_specific_places_163	verify that a non-deterministic external function call cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
164	NegSem_160104_invoking_functions_from_specific_places_164	verify that the predefined <code>rnd</code> function cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
165	NegSem_160104_invoking_functions_from_specific_places_165	verify a function called during receiving operation cannot contain an assignment of a component variable (as actual parameters)	Clause 16.1.4	m	y
166	NegSem_160104_invoking_functions_from_specific_places_166	verify a function called during receiving operation cannot contain a component variable used as an actual out parameter (as actual parameters)	Clause 16.1.4	m	y
167	NegSem_160104_invoking_functions_from_specific_places_167	verify a function called during receiving operation cannot contain a component variable used as an actual <b>inout</b> parameter (as actual parameters)	Clause 16.1.4	m	y
168	NegSem_160104_invoking_functions_from_specific_places_168	verify that the <b>setverdict</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
169	NegSem_160104_invoking_functions_from_specific_places_169	verify that the <b>activate</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
170	NegSem_160104_invoking_functions_from_specific_places_170	verify that the <b>deactivate</b> operation cannot be used in a function called during receiving operation (as actual parameters)	Clause 16.1.4	m	y
171	NegSem_160104_invoking_functions_from_specific_places_171	verify a function called during receiving operation cannot contain an out parameter (as actual parameters)	Clause 16.1.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
172	NegSem_160104_invoking_functions_from_specific_places_172	verify a function called during receiving operation cannot contain an <b>inout</b> parameter (as actual parameters)	Clause 16.1.4	m	y
173	NegSem_160104_invoking_functions_from_specific_places_173	verify that the <b>create</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
174	NegSem_160104_invoking_functions_from_specific_places_174	verify that the <b>component.start</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
175	NegSem_160104_invoking_functions_from_specific_places_175	verify that the <b>component.stop</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
176	NegSem_160104_invoking_functions_from_specific_places_176	verify that the <b>kill</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
177	NegSem_160104_invoking_functions_from_specific_places_177	verify that the <b>component.running</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
178	NegSem_160104_invoking_functions_from_specific_places_178	verify that the <b>alive</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
179	NegSem_160104_invoking_functions_from_specific_places_179	verify that the <b>done</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
180	NegSem_160104_invoking_functions_from_specific_places_180	verify that the <b>killed</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
181	NegSem_160104_invoking_functions_from_specific_places_181	verify that the <b>port.start</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
182	NegSem_160104_invoking_functions_from_specific_places_182	verify that the <b>port.stop</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
183	NegSem_160104_invoking_functions_from_specific_places_183	verify that the <b>halt</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
184	NegSem_160104_invoking_functions_from_specific_places_184	verify that the <b>clear</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
185	NegSem_160104_invoking_functions_from_specific_places_185	verify that the <b>checkstate</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
186	NegSem_160104_invoking_functions_from_specific_places_186	verify that the <b>send</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
187	NegSem_160104_invoking_functions_from_specific_places_187	verify that the <b>receive</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
188	NegSem_160104_invoking_functions_from_specific_places_188	verify that the <b>trigger</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
189	NegSem_160104_invoking_functions_from_specific_places_189	verify that the <b>call</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
190	NegSem_160104_invoking_functions_from_specific_places_190	verify that the <b>getcall</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
191	NegSem_160104_invoking_functions_from_specific_places_191	verify that the <b>reply</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
192	NegSem_160104_invoking_functions_from_specific_places_192	verify that the <b>getreply</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
193	NegSem_160104_invoking_functions_from_specific_places_193	verify that the <b>raise</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
194	NegSem_160104_invoking_functions_from_specific_places_194	verify that the <b>catch</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
195	NegSem_160104_invoking_functions_from_specific_places_195	verify that the <b>check</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
196	NegSem_160104_invoking_functions_from_specific_places_196	verify that the <b>connect</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
197	NegSem_160104_invoking_functions_from_specific_places_197	verify that the <b>disconnect</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
198	NegSem_160104_invoking_functions_from_specific_places_198	verify that the <b>map</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
199	NegSem_160104_invoking_functions_from_specific_places_199	verify that the <b>unmap</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
200	NegSem_160104_invoking_functions_from_specific_places_200	verify that the <b>action</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
201	NegSem_160104_invoking_functions_from_specific_places_201	verify that the <b>timer.start</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
202	NegSem_160104_invoking_functions_from_specific_places_202	verify that the <b>timer.stop</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
203	NegSem_160104_invoking_functions_from_specific_places_203	verify that the <b>timer.running</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
204	NegSem_160104_invoking_functions_from_specific_places_204	verify that the <b>read</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
205	NegSem_160104_invoking_functions_from_specific_places_205	verify that the <b>timeout</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
206	NegSem_160104_invoking_functions_from_specific_places_206	verify a function called in a guard of an <b>alt</b> statement cannot contain an assignment of a component variable	Clause 16.1.4	m	y
207	NegSem_160104_invoking_functions_from_specific_places_207	verify a function called in a guard of an <b>alt</b> statement cannot contain a component variable used as an actual <b>out</b> parameter	Clause 16.1.4	m	y
208	NegSem_160104_invoking_functions_from_specific_places_208	verify a function called in a guard of an <b>alt</b> statement cannot contain a component variable used as an actual <b>inout</b> parameter	Clause 16.1.4	m	y
209	NegSem_160104_invoking_functions_from_specific_places_209	verify that the <b>activate</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
210	NegSem_160104_invoking_functions_from_specific_places_210	verify that the <b>deactivate</b> operation cannot be used in guards of <b>alt</b> statements	Clause 16.1.4	m	y
211	NegSem_160104_invoking_functions_from_specific_places_211	verify that a function called from a <b>guard</b> statement of an <b>alt</b> operation cannot contain <b>out</b> parameters	Clause 16.1.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
212	NegSem_160104_invoking_functions_from_specific_places_212	verify that the <b>create</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
213	NegSem_160104_invoking_functions_from_specific_places_213	verify that the <b>component.start</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
214	NegSem_160104_invoking_functions_from_specific_places_214	verify that the <b>component.stop</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
215	NegSem_160104_invoking_functions_from_specific_places_215	verify that the <b>kill</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
216	NegSem_160104_invoking_functions_from_specific_places_216	verify that the <b>component.running</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
217	NegSem_160104_invoking_functions_from_specific_places_217	verify that the <b>alive</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
218	NegSem_160104_invoking_functions_from_specific_places_218	verify that the <b>done</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
219	NegSem_160104_invoking_functions_from_specific_places_219	verify that the <b>killed</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
220	NegSem_160104_invoking_functions_from_specific_places_220	verify that the <b>port.start</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
221	NegSem_160104_invoking_functions_from_specific_places_221	verify that the <b>port.stop</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
222	NegSem_160104_invoking_functions_from_specific_places_222	verify that the <b>halt</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
223	NegSem_160104_invoking_functions_from_specific_places_223	verify that the <b>clear</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
224	NegSem_160104_invoking_functions_from_specific_places_224	verify that the <b>checkstate</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
225	NegSem_160104_invoking_functions_from_specific_places_225	verify that the <b>send</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
226	NegSem_160104_invoking_functions_from_specific_places_226	verify that the <b>receive</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
227	NegSem_160104_invoking_functions_from_specific_places_227	verify that the <b>trigger</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
228	NegSem_160104_invoking_functions_from_specific_places_228	verify that the <b>call</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
229	NegSem_160104_invoking_functions_from_specific_places_229	verify that the <b>getcall</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
230	NegSem_160104_invoking_functions_from_specific_places_230	verify that the <b>reply</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
231	NegSem_160104_invoking_functions_from_specific_places_231	verify that the <b>getreply</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
232	NegSem_160104_invoking_functions_from_specific_places_232	verify that the <b>raise</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
233	NegSem_160104_invoking_functions_from_specific_places_233	verify that the <b>catch</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
234	NegSem_160104_invoking_functions_from_specific_places_234	verify that the <b>check</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
235	NegSem_160104_invoking_functions_from_specific_places_235	verify that the <b>connect</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
236	NegSem_160104_invoking_functions_from_specific_places_236	verify that the <b>disconnect</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
237	NegSem_160104_invoking_functions_from_specific_places_237	verify that the <b>map</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
238	NegSem_160104_invoking_functions_from_specific_places_238	verify that the <b>unmap</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
239	NegSem_160104_invoking_functions_from_specific_places_239	verify that the <b>action</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
240	NegSem_160104_invoking_functions_from_specific_places_240	verify that the <b>timer.start</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
241	NegSem_160104_invoking_functions_from_specific_places_241	verify that the <b>timer.stop</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
242	NegSem_160104_invoking_functions_from_specific_places_242	verify that the <b>timer.running</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
243	NegSem_160104_invoking_functions_from_specific_places_243	verify that the <b>read</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
244	NegSem_160104_invoking_functions_from_specific_places_244	verify that the <b>timeout</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
245	NegSem_160104_invoking_functions_from_specific_places_245	verify that a non-deterministic external function call cannot be used in guards of altsteps	Clause 16.1.4	m	y
246	NegSem_160104_invoking_functions_from_specific_places_246	verify that the predefined <b>rnd</b> function cannot be used in guards of altsteps	Clause 16.1.4	m	y
247	NegSem_160104_invoking_functions_from_specific_places_247	verify a function called in a guard of an <b>altstep</b> cannot contain an assignment of a component variable	Clause 16.1.4	m	y
248	NegSem_160104_invoking_functions_from_specific_places_248	verify a function called in a guard of an <b>altstep</b> cannot contain a component variable used as an actual <b>out</b> parameter	Clause 16.1.4	m	y
249	NegSem_160104_invoking_functions_from_specific_places_249	verify a function called in a guard of an <b>altstep</b> cannot contain a component variable used as an actual <b>inout</b> parameter	Clause 16.1.4	m	y
250	NegSem_160104_invoking_functions_from_specific_places_250	verify that the <b>setverdict</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
251	NegSem_160104_invoking_functions_from_specific_places_251	verify that the <b>activate</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
252	NegSem_160104_invoking_functions_from_specific_places_252	verify that the <b>deactivate</b> operation cannot be used in guards of altsteps	Clause 16.1.4	m	y
253	NegSem_160104_invoking_functions_from_specific_places_253	verify that a function called from a <b>guard</b> statement of an altstep cannot contain <b>out</b> parameters	Clause 16.1.4	m	y
254	NegSem_160104_invoking_functions_from_specific_places_254	verify that a function called from a <b>guard</b> statement of an altstep cannot contain <b>inout</b> parameters	Clause 16.1.4	m	y
255	NegSem_160104_invoking_functions_from_specific_places_255	verify that the <b>create</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
256	NegSem_160104_invoking_functions_from_specific_places_256	verify that the <b>component.start</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
257	NegSem_160104_invoking_functions_from_specific_places_257	verify that the <b>component.stop</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
258	NegSem_160104_invoking_functions_from_specific_places_258	verify that the <b>kill</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
259	NegSem_160104_invoking_functions_from_specific_places_259	verify that the <b>component.running</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
260	NegSem_160104_invoking_functions_from_specific_places_260	verify that the <b>alive</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
261	NegSem_160104_invoking_functions_from_specific_places_261	verify that the <b>done</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
262	NegSem_160104_invoking_functions_from_specific_places_262	verify that the <b>killed</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
263	NegSem_160104_invoking_functions_from_specific_places_263	verify that the <b>port.start</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
264	NegSem_160104_invoking_functions_from_specific_places_264	verify that the <b>port.stop</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
265	NegSem_160104_invoking_functions_from_specific_places_265	verify that the <b>halt</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
266	NegSem_160104_invoking_functions_from_specific_places_266	verify that the <b>clear</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
267	NegSem_160104_invoking_functions_from_specific_places_267	verify that the <b>checkstate</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
268	NegSem_160104_invoking_functions_from_specific_places_268	verify that the <b>send</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
269	NegSem_160104_invoking_functions_from_specific_places_269	verify that the <b>receive</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
270	NegSem_160104_invoking_functions_from_specific_places_270	verify that the <b>trigger</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
271	NegSem_160104_invoking_functions_from_specific_places_271	verify that the <b>call</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
272	NegSem_160104_invoking_functions_from_specific_places_272	verify that the <b>getcall</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
273	NegSem_160104_invoking_functions_from_specific_places_273	verify that the <b>reply</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
274	NegSem_160104_invoking_functions_from_specific_places_274	verify that the <b>getreply</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
275	NegSem_160104_invoking_functions_from_specific_places_275	verify that the <b>raise</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
276	NegSem_160104_invoking_functions_from_specific_places_276	verify that the <b>catch</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
277	NegSem_160104_invoking_functions_from_specific_places_277	verify that the <b>check</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
278	NegSem_160104_invoking_functions_from_specific_places_278	verify that the <b>connect</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
279	NegSem_160104_invoking_functions_from_specific_places_279	verify that the <b>disconnect</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
280	NegSem_160104_invoking_functions_from_specific_places_280	verify that the <b>map</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
281	NegSem_160104_invoking_functions_from_specific_places_281	verify that the <b>unmap</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
282	NegSem_160104_invoking_functions_from_specific_places_282	verify that the <b>action</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
283	NegSem_160104_invoking_functions_from_specific_places_283	verify that the <b>timer.start</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
284	NegSem_160104_invoking_functions_from_specific_places_284	verify that the <code>timer.stop</code> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
285	NegSem_160104_invoking_functions_from_specific_places_285	verify that the <code>timer.running</code> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
286	NegSem_160104_invoking_functions_from_specific_places_286	verify that the <code>read</code> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
287	NegSem_160104_invoking_functions_from_specific_places_287	verify that the <code>timeout</code> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
288	NegSem_160104_invoking_functions_from_specific_places_288	verify that a non-deterministic external function call cannot be used in altstep local definitions	Clause 16.1.4	m	n
289	NegSem_160104_invoking_functions_from_specific_places_289	verify that the predefined <code>rnd</code> function cannot be used in altstep local definitions	Clause 16.1.4	m	n
290	NegSem_160104_invoking_functions_from_specific_places_290	verify a function called in an altstep local definition cannot contain an assignment of a component variable	Clause 16.1.4	m	n
291	NegSem_160104_invoking_functions_from_specific_places_291	verify a function called in an altstep local definition cannot contain a component variable used as an actual <code>out</code> parameter	Clause 16.1.4	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
292	NegSem_160104_invoking_functions_from_specific_places_292	verify a function called in an altstep local definition cannot contain a component variable used as an actual <b>inout</b> parameter	Clause 16.1.4	m	n
293	NegSem_160104_invoking_functions_from_specific_places_293	verify that the <b>setverdict</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
294	NegSem_160104_invoking_functions_from_specific_places_294	verify that the <b>activate</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
295	NegSem_160104_invoking_functions_from_specific_places_295	verify that the <b>deactivate</b> operation cannot be used in altstep local definitions	Clause 16.1.4	m	n
296	NegSem_160104_invoking_functions_from_specific_places_296	verify that a function called in altstep <b>altstep</b> local definitions cannot contain <b>out</b> parameters	Clause 16.1.4	m	n
297	NegSem_160104_invoking_functions_from_specific_places_297	verify that a function called in altstep <b>altstep</b> local definitions cannot contain <b>inout</b> parameters	Clause 16.1.4	m	n

## 5.100. Altsteps

Table 99. Altsteps

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_1602_toplevel_001	The IUT recognizes altstep definitions and correctly evaluates them	Clause 16.2	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
2	NegSem_1602_toplevel_002	The IUT recognizes altstep definitions and correctly evaluates them	Clause 16.2	m	n
3	NegSem_1602_toplevel_003	The IUT recognizes altstep definitions and correctly evaluates them	Clause 16.2	m	n
4	NegSem_1602_toplevel_004	The IUT recognizes altstep definitions and correctly evaluates them	Clause 16.2	m	n
5	NegSem_1602_toplevel_005	The IUT recognizes altstep definitions and correctly evaluates them	Clause 16.2	m	y
6	NegSem_1602_toplevel_006	The IUT recognizes altstep definitions and correctly evaluates them	Clause 16.2	m	y
7	NegSem_1602_toplevel_007	Verify that altstep without a <b>runs on</b> clause cannot be started as component behaviour	Clause 16.2	m	n
8	NegSyn_1602_toplevel_001	The IUT recognizes altstep definitions and correctly evaluates them	Clause 16.2	m	y
9	Sem_1602_toplevel_001	The IUT recognizes altstep definitions and correctly evaluates them	Clause 16.2	m	y
10	Sem_1602_toplevel_002	Verify that altstep with a <b>runs on</b> clause can be started as component behaviour	Clause 16.2	m	n
11	Sem_1602_toplevel_003	Verify that altstep with a <b>runs on</b> clause can be started as component behaviour from a context without a <b>runs on</b> clause	Clause 16.2	m	n

## 5.101. Invoking altsteps

Table 100. Invoking altsteps

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_160201_invoking_altsteps_001	The IUT recognizes altstep definitions and correctly evaluates them	Clause 16.2.1	m	y
2	Sem_160201_invoking_altsteps_001	The IUT recognizes altstep definitions and correctly evaluates them	Clause 16.2.1	m	y
3	Sem_160201_invoking_altsteps_002	The IUT recognizes altstep definitions and correctly evaluates them	Clause 16.2.1	m	y
4	Sem_160201_invoking_altsteps_003	Altsteps are correctly handled for dynamically mapped ports	Clause 16.2.1	m	y
5	Sem_160201_invoking_altsteps_004	Altsteps are correctly handled for dynamically mapped ports	Clause 16.2.1	m	y

## 5.102. Test cases

Table 101. Test cases

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_1603_testcases_001	The IUT properly evaluates invocation of testcases	Clause 16.3	m	y
2	NegSem_1603_testcases_002	The IUT properly evaluates invocation of testcases	Clause 16.3	m	y
3	Syn_1603_testcases_001	The IUT properly evaluates invocation of testcases with <b>system</b> clause	Clause 16.3	m	y

## 5.103. Assignments

Table 102. Assignments

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_1901_assignments_001	The IUT properly evaluates <b>assignment</b> statements	Clause 19.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
2	NegSem_1901_assignments_002	The IUT properly evaluates <b>assignment</b> statements	Clause 19.1	m	y
3	NegSem_1901_assignments_003	The IUT properly evaluates <b>assignment</b> statements	Clause 19.1	m	y
4	NegSem_1901_assignments_004	Omit assignment to a record non-optional value is not allowed	Clause 19.1	m	y
5	NegSem_1901_assignments_005	Omit assignment to set of non-optional value is not allowed	Clause 19.1	m	y
6	NegSem_1901_assignments_006	Omit assignment to an array is not allowed	Clause 19.1	m	y
7	NegSyn_1901_assignments_001	The IUT properly evaluates <b>assignment</b> statements	Clause 19.1	m	y
8	Sem_1901_assignments_001	The IUT properly evaluates <b>assignment</b> statements	Clause 19.1	m	y
9	Sem_1901_assignments_002	Uninitialized at the right-hand side of the assignment shall also become uninitialized at the left-hand side	Clause 19.1	m	y
10	Sem_1901_assignments_003	The right-hand side of the assignment of a structured value is evaulted correctly	Clause 19.1	m	y
11	Sem_1901_assignments_004	Ensure that the right-hand side of the assignment of a structured value is evaulted correctly	Clause 19.1	m	n

## 5.104. The **if-else** statement

Table 103. The **if-else** statement

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSyn_1902_if_else_statement_001	If statement requires curly brackets for the body	Clause 19.2	m	y
2	Sem_1902_if_else_statement_001	The IUT properly evaluates <b>if-else</b> statements	Clause 19.2	m	y
3	Sem_1902_if_else_statement_002	The IUT properly evaluates <b>if-else</b> statements	Clause 19.2	m	y

## 5.105. The **Select** statements

Table 104. The **Select** statements

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_190301_select_case_statement_001	The IUT properly evaluates <b>select-case</b> statements	Clause 19.3	m	y
2	Sem_190301_select_case_statement_002	The IUT properly evaluates <b>select-case</b> statements	Clause 19.3	m	y
3	Sem_190301_select_case_statement_003	The IUT properly evaluates <b>select-case</b> statements	Clause 19.3	m	y
4	Sem_190301_select_case_statement_004	The IUT properly evaluates <b>select-case</b> statements	Clause 19.3	m	y
5	Sem_190301_select_case_statement_005	The IUT properly evaluates <b>select-case</b> statements	Clause 19.3	m	y
6	Sem_190301_select_case_statement_006	The IUT properly evaluates <b>select-case</b> statements	Clause 19.3	m	y

## 5.106. The **select union** statement

Table 105. The **select union** statement

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_190302_select_union_statement_001	verify that header part of <b>select-union</b> statements cannot contain anything else than union instances	Clause 19.3.2	m	y
2	NegSem_190302_select_union_statement_002	verify that uninitialized value cannot be used in select union header	Clause 19.3.2	m	y
3	NegSem_190302_select_union_statement_003	verify that unknown alternatives cannot be use in <b>case</b> statements	Clause 19.3.2	m	y
4	NegSem_190302_select_union_statement_004	verify that the same alternative cannot be used in two <b>case</b> statements (simple case)	Clause 19.3.2	m	y
5	NegSem_190302_select_union_statement_005	verify that the same alternative cannot be used in two <b>case</b> statements (list item)	Clause 19.3.2	m	y
6	NegSem_190302_select_union_statement_006	verify that it is possible to use a <b>select union</b> statement with several branches	Clause 19.3.2	m	y
7	Sem_190302_select_union_statement_001	verify that it is possible to use a <b>select union</b> statement with several branches	Clause 19.3.2	m	y
8	Sem_190302_select_union_statement_002	verify that it is possible to use comma separated list of alternatives in case branches	Clause 19.3.2	m	y
9	Sem_190302_select_union_statement_003	verify that it is possible to use an else branches	Clause 19.3.2	m	y
10	Sem_190302_select_union_statement_004	verify that else branch is executed if no case is defined for the selected alternative	Clause 19.3.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
11	Sem_190302_select_union_statement_005	verify that no branch is executed if there's no suitable case branch	Clause 19.3.2	m	y
12	Sem_190302_select_union_statement_006	verify that partially initialized value can be used in select union header	Clause 19.3.2	m	y
13	Sem_190302_select_union_statement_007	verify that it is possible to use a <b>select union</b> statement with several branches	Clause 19.3.2	m	y

## 5.107. The **for** statement

Table 106. The **for** statement

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_1904_for_statement_001	The IUT properly evaluates <b>for</b> statements	Clause 19.4	m	y
2	Sem_1904_for_statement_001	The IUT properly evaluates <b>for</b> statements	Clause 19.4	m	y
3	Sem_1904_for_statement_002	The IUT properly evaluates <b>for</b> statements	Clause 19.4	m	y
4	Sem_1904_for_statement_003	The IUT properly evaluates <b>for</b> statements	Clause 19.4	m	y

## 5.108. The **while** statement

Table 107. The **while** statement

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_1905_while_statement_001	The IUT properly evaluates <b>while</b> statements	Clause 19.5	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
2	Sem_1905_while_statement_001	The IUT properly evaluates <b>while</b> statements	Clause 19.5	m	y
3	Sem_1905_while_statement_002	The IUT properly evaluates <b>while</b> statements	Clause 19.5	m	y
4	Sem_1905_while_statement_003	The IUT properly evaluates <b>while</b> statements	Clause 19.5	m	y

## 5.109. The **do-while** statement

Table 108. The **do-while** statement

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_1906_do_while_statement_001	The IUT properly evaluates <b>do-while</b> statements	Clause 19.6	m	y
2	Sem_1906_do_while_statement_001	The IUT properly evaluates <b>do-while</b> statements	Clause 19.6	m	y
3	Sem_1906_do_while_statement_002	The IUT properly evaluates <b>do-while</b> statements	Clause 19.6	m	y
4	Sem_1906_do_while_statement_003	The IUT properly evaluates <b>do-while</b> statements	Clause 19.6	m	y

## 5.110. The **label** statement

Table 109. The **label** statement

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_1907_label_statement_001	The IUT correctly handles label naming uniqueness.	Clause 19.7	m	y
2	NegSyn_1907_label_statement_001	The IUT correctly handles label syntax.	Clause 19.7	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
3	NegSyn_1907_label_statement_002	The IUT correctly handles label syntax.	Clause 19.7	m	y
4	Syn_1907_label_statement_001	The IUT correctly handles label syntax.	Clause 19.7	m	y

## 5.111. The **goto** statement

Table 110. The **goto** statement

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_1908_goto_statement_001	The IUT correctly handles <b>goto</b> statements.	Clause 19.8	m	y
2	NegSem_1908_goto_statement_002	The IUT correctly handles <b>goto</b> statements.	Clause 19.8	m	y
3	NegSem_1908_goto_statement_003	The IUT correctly handles <b>goto</b> statements.	Clause 19.8	m	y
4	Sem_1908_goto_statement_001	The IUT correctly handles <b>goto</b> statements.	Clause 19.8	m	y
5	Sem_1908_goto_statement_002	The IUT correctly handles <b>goto</b> statements.	Clause 19.8	m	y
6	Sem_1908_goto_statement_003	The IUT correctly handles <b>goto</b> statements.	Clause 19.8	m	y

## 5.112. The **stop** execution statement

Table 111. The **stop** execution statement

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_1909_stop_statement_001	The IUT correctly handles <b>stop</b> statements.	Clause 19.9	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
2	Sem_1909_stop_statement_002	The IUT correctly handles <b>stop</b> statements.	Clause 19.9	m	y
3	Sem_1909_stop_statement_003	<b>stop</b> statement in a function called from a PTC	Clause 19.9	m	y
4	Sem_1909_stop_statement_004	<b>stop</b> statement in a function called from a PTC	Clause 19.9	m	y

## 5.113. The **return** statement

Table 112. The **return** statement

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_1910_return_statement_001	The IUT correctly handles <b>return</b> statements.	Clause 19.10	m	y
2	Sem_1910_return_statement_001	The IUT correctly handles <b>return</b> statements.	Clause 19.10	m	y
3	Sem_1910_return_statement_002	The IUT correctly handles <b>return</b> statements.	Clause 19.10	m	y

## 5.114. The **log** statement

Table 113. The **log** statement

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_1911_log_statement_001	The IUT properly evaluates <b>log</b> statements	Clause 19.11	m	y
2	Sem_1911_log_statement_001	The IUT properly evaluates <b>log</b> statements	Clause 19.11	m	y
3	Sem_1911_log_statement_002	The IUT properly evaluates <b>log</b> statements	Clause 19.11	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
4	Sem_1911_log_statement_003	The IUT properly evaluates <b>log</b> statements	Clause 19.11	m	y
5	Sem_1911_log_statement_004	The IUT properly evaluates <b>log</b> statements	Clause 19.11	m	y
6	Sem_1911_log_statement_005	The IUT properly evaluates <b>log</b> statements	Clause 19.11	m	y

## 5.115. The **continue** statement

Table 114. The **continue** statement

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_1913_continue_statement_001	The IUT properly evaluates <b>continue</b> statements	Clause 19.13	m	y

## 5.116. Statement and operations for alternative behaviours

Table 115. Statement and operations for alternative behaviours

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Syn_20_TopLevel_001	<b>Alt</b> -statements are accepted.	Clause 20	m	y
2	Syn_20_TopLevel_002	Repeat in an <b>alt</b> -statement is accepted.	Clause 20	m	y
3	Syn_20_TopLevel_003	The <b>interleave</b> -statement is accepted.	Clause 20	m	y
4	Syn_20_TopLevel_004	Defaults and the <b>activate</b> statement is accepted.	Clause 20	m	y
5	Syn_20_TopLevel_005	Defaults and the <b>activate</b> statement is accepted.	Clause 20	m	y

## 5.117. The **alt** statement

Table 116. The **alt** statement

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_2002_TheAltStatement_001	dynamic error if a test component is completely blocked	Clause 20.2	m	y
2	NegSem_2002_TheAltStatement_002	create in <b>guard</b> statements	Clause 20.2	m	n
3	NegSem_2002_TheAltStatement_003	running (timer) in <b>guard</b> statements	Clause 20.2	m	n
4	NegSem_2002_TheAltStatement_004	running (component) in <b>guard</b> statements	Clause 20.2	m	n
5	NegSem_2002_TheAltStatement_005	alive in <b>guard</b> statements	Clause 20.2	m	n
6	NegSem_2002_TheAltStatement_006	activate in <b>guard</b> statements	Clause 20.2	m	n
7	NegSem_2002_TheAltStatement_007	create in <b>alt</b> branch event	Clause 20.2	m	n
8	NegSem_2002_TheAltStatement_008	running (timer) in <b>alt</b> branch event	Clause 20.2	m	n
9	NegSem_2002_TheAltStatement_009	running (component) in <b>alt</b> branch event	Clause 20.2	m	n
10	NegSem_2002_TheAltStatement_010	alive in <b>alt</b> branch event	Clause 20.2	m	n
11	NegSem_2002_TheAltStatement_011	create in <b>alt</b> branch event	Clause 20.2	m	n
12	NegSem_2002_TheAltStatement_012	create in altstep branch	Clause 20.2	m	n
13	NegSem_2002_TheAltStatement_013	running (timer) in altstep branch	Clause 20.2	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
14	NegSem_2002_TheAltStatement_014	running (component) in altstep branch	Clause 20.2	m	n
15	NegSem_2002_TheAltStatement_015	alive in altstep branch	Clause 20.2	m	n
16	NegSem_2002_TheAltStatement_016	create in altstep branch	Clause 20.2	m	n
17	NegSem_2002_TheAltStatement_017	verify that the <b>create</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
18	NegSem_2002_TheAltStatement_018	verify that the <b>component.start</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
19	NegSem_2002_TheAltStatement_019	verify that the <b>component.stop</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
20	NegSem_2002_TheAltStatement_020	verify that the <b>kill</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
21	NegSem_2002_TheAltStatement_021	verify that the <b>component.running</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
22	NegSem_2002_TheAltStatement_022	verify that the <b>alive</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
23	NegSem_2002_TheAltStatement_023	verify that the <b>done</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
24	NegSem_2002_TheAltStatement_024	verify that the <b>killed</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
25	NegSem_2002_TheAltStatement_025	verify that the <b>port.start</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
26	NegSem_2002_TheAltStatement_026	verify that the <b>port.stop</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
27	NegSem_2002_TheAltStatement_027	verify that the <b>halt</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
28	NegSem_2002_TheAltStatement_028	verify that the <b>clear</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
29	NegSem_2002_TheAltStatement_029	verify that the <b>checkstate</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
30	NegSem_2002_TheAltStatement_030	verify that the <b>send</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
31	NegSem_2002_TheAltStatement_031	verify that the <b>receive</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
32	NegSem_2002_TheAltStatement_032	verify that the <b>trigger</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
33	NegSem_2002_TheAltStatement_033	verify that the <b>call</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
34	NegSem_2002_TheAltStatement_034	verify that the <b>getcall</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
35	NegSem_2002_TheAltStatement_035	verify that the <b>reply</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
36	NegSem_2002_TheAltStatement_036	verify that the <b>getreply</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
37	NegSem_2002_TheAltStatement_037	verify that the <b>raise</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
38	NegSem_2002_TheAltStatement_038	verify that the <b>catch</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
39	NegSem_2002_TheAltStatement_039	verify that the <b>check</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
40	NegSem_2002_TheAltStatement_040	verify that the <b>connect</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
41	NegSem_2002_TheAltStatement_041	verify that the <b>disconnect</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
42	NegSem_2002_TheAltStatement_042	verify that the <b>map</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
43	NegSem_2002_TheAltStatement_043	verify that the <b>unmap</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
44	NegSem_2002_TheAltStatement_044	verify that the <b>action</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
45	NegSem_2002_TheAltStatement_045	verify that the <b>timer.start</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n
46	NegSem_2002_TheAltStatement_046	verify that the <b>timer.stop</b> operation cannot be used in parameters of altsteps invoked from an <b>alt</b> branch	Clause 20.2	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
47	NegSem_2002_TheAltStatement_047	verify that the <code>timer.running</code> operation cannot be used in parameters of <code>altsteps</code> invoked from an <code>alt</code> branch	Clause 20.2	m	n
48	NegSem_2002_TheAltStatement_048	verify that the <code>read</code> operation cannot be used in parameters of <code>altsteps</code> invoked from an <code>alt</code> branch	Clause 20.2	m	n
49	NegSem_2002_TheAltStatement_049	verify that the <code>timeout</code> operation cannot be used in parameters of <code>altsteps</code> invoked from an <code>alt</code> branch	Clause 20.2	m	n
50	NegSem_2002_TheAltStatement_050	verify that a non-deterministic external function call cannot be used in parameters of <code>altsteps</code> invoked from an <code>alt</code> branch	Clause 20.2	m	n
51	NegSem_2002_TheAltStatement_051	verify that the predefined <code>rnd</code> function cannot be used in parameters of <code>altsteps</code> invoked from an <code>alt</code> branch	Clause 20.2	m	n
52	NegSem_2002_TheAltStatement_052	verify a function called in a guard of an <code>altstep</code> cannot contain an assignment of a component variable	Clause 20.2	m	n
53	NegSem_2002_TheAltStatement_053	verify a function called in a guard of an <code>altstep</code> cannot contain a component variable used as an actual <code>out</code> parameter	Clause 20.2	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
54	NegSem_2002_TheAltStatement_054	verify a function called in a guard of an <b>altstep</b> cannot contain a component variable used as an actual <b>inout</b> parameter	Clause 20.2	m	n
55	NegSem_2002_TheAltStatement_055	verify that the <b>setverdict</b> operation cannot be used in <b>guard</b> statements of <b>altstep</b>	Clause 20.2	m	n
56	NegSem_2002_TheAltStatement_056	verify that the <b>activate</b> operation cannot be used in parameters of <b>altsteps</b> invoked from an <b>alt</b> branch	Clause 20.2	m	n
57	NegSem_2002_TheAltStatement_057	verify that the <b>deactivate</b> operation cannot be used in parameters of <b>altsteps</b> invoked from an <b>alt</b> branch	Clause 20.2	m	n
58	NegSem_2002_TheAltStatement_058	verify that a function used in a parameter of an <b>altstep</b> invoked from an <b>alt</b> branch cannot contain out parameters	Clause 20.2	m	n
59	NegSem_2002_TheAltStatement_059	verify that a function used in a parameter of an <b>altstep</b> invoked from an <b>alt</b> branch cannot contain <b>inout</b> parameters	Clause 20.2	m	n
60	NegSem_2002_TheAltStatement_060	verify that the <b>read</b> operation cannot be used in <b>guard</b> statements	Clause 20.2	m	n
61	NegSem_2002_TheAltStatement_061	verify that the <b>checkstate</b> operation cannot be used in <b>guard</b> statements	Clause 20.2	m	n
62	NegSem_2002_TheAltStatement_062	verify that the <b>read</b> operation cannot be used in <b>alt</b> branch events (in inline templates)	Clause 20.2	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
63	NegSem_2002_TheAltState ment_063	verify that the <b>checkstate</b> operation cannot be used in <b>alt</b> branch events (in inline templates)	Clause 20.2	m	n
64	NegSem_2002_TheAltState ment_064	verify that the <b>read</b> operation cannot be used in parameters of <b>alt</b> branch events	Clause 20.2	m	n
65	NegSem_2002_TheAltState ment_065	verify that the <b>checkstate</b> operation cannot be used in parameters of <b>alt</b> branch events	Clause 20.2	m	n
66	NegSem_2002_TheAltState ment_066	verify that the <b>create</b> operation cannot be used in <b>alt</b> branch events (in inline template)	Clause 20.2	m	n
67	NegSem_2002_TheAltState ment_067	verify that the <b>component.running</b> operation cannot be used in <b>alt</b> branch events (in templates)	Clause 20.2	m	n
68	NegSem_2002_TheAltState ment_068	verify that the <b>alive</b> operation cannot be used in <b>alt</b> branch events (in templates)	Clause 20.2	m	n
69	NegSem_2002_TheAltState ment_069	verify that the <b>checkstate</b> operation cannot be used in <b>alt</b> branch events (in templates)	Clause 20.2	m	n
70	NegSem_2002_TheAltState ment_070	verify that the <b>timer.running</b> operation cannot be used in <b>alt</b> branch events (in templates)	Clause 20.2	m	n
71	NegSem_2002_TheAltState ment_071	verify that the <b>read</b> operation cannot be used in <b>alt</b> branch events (in templates)	Clause 20.2	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
72	NegSem_2002_TheAltStatement_072	verify that the <b>activate</b> operation cannot be used in <b>alt</b> branch events (in templates)	Clause 20.2	m	n
73	NegSem_2002_TheAltStatement_073	verify that the <b>create</b> operation cannot be used in <b>alt</b> branch events (in inline template)	Clause 20.2	m	n
74	NegSem_2002_TheAltStatement_074	verify that the <b>component.running</b> operation cannot be used in <b>alt</b> branch events (in template parameters)	Clause 20.2	m	n
75	NegSem_2002_TheAltStatement_075	verify that the <b>alive</b> operation cannot be used in <b>alt</b> branch events (in template parameters)	Clause 20.2	m	n
76	NegSem_2002_TheAltStatement_076	verify that the <b>checkstate</b> operation cannot be used in <b>alt</b> branch events (in template parameters)	Clause 20.2	m	n
77	NegSem_2002_TheAltStatement_077	verify that the <b>timer.running</b> operation cannot be used in <b>alt</b> branch events (in template parameters)	Clause 20.2	m	n
78	NegSem_2002_TheAltStatement_078	verify that the <b>read</b> operation cannot be used in <b>alt</b> branch events (in template parameters)	Clause 20.2	m	n
79	NegSem_2002_TheAltStatement_079	verify that the <b>activate</b> operation cannot be used in <b>alt</b> branch events (in template parameters)	Clause 20.2	m	n
80	NegSem_2002_TheAltStatement_080	verify that the <b>create</b> operation cannot be used in <b>alt</b> branch events (in inline template)	Clause 20.2	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
81	NegSem_2002_TheAltStatement_081	verify that the <b>component.running</b> operation cannot be used in altstep declarations	Clause 20.2	m	n
82	NegSem_2002_TheAltStatement_082	verify that the <b>alive</b> operation cannot be used in altstep declarations	Clause 20.2	m	n
83	NegSem_2002_TheAltStatement_083	verify that the <b>checkstate</b> operation cannot be used in altstep declarations	Clause 20.2	m	n
84	NegSem_2002_TheAltStatement_084	verify that the <b>timer.running</b> operation cannot be used in altstep declarations	Clause 20.2	m	n
85	NegSem_2002_TheAltStatement_085	verify that the <b>read</b> operation cannot be used in altstep declarations	Clause 20.2	m	n
86	NegSem_2002_TheAltStatement_086	verify that the <b>activate</b> operation cannot be used in altstep declarations	Clause 20.2	m	n
87	Sem_2002_TheAltStatement_001	The <b>alt</b> -statement works as expected (loopback case).	Clause 20.2	m	y
88	Sem_2002_TheAltStatement_002	The <b>alt</b> -statement with a guard works as expected (loopback case).	Clause 20.2	m	y
89	Sem_2002_TheAltStatement_003	The <b>alt</b> -statement processes the alternatives in order (loopback case).	Clause 20.2	m	y
90	Sem_2002_TheAltStatement_004	Activated defaults are processed in the reverse order (loopback case).	Clause 20.2	m	y
91	Sem_2002_TheAltStatement_005	The else branch is executed when nothing else matched (loopback case).	Clause 20.2	m	y
92	Sem_2002_TheAltStatement_006	An altstep invocation works as expected (loopback case).	Clause 20.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
93	Sem_2002_TheAltStatement_007	An altstep invocation works as expected and that the <b>optional</b> statement block is executed after the altstep staatement block (loopback case).	Clause 20.2	m	y
94	Sem_2002_TheAltStatement_008	The done-block in an <b>alt</b> -statement is triggered as expected (loopback case).	Clause 20.2	m	y
95	Sem_2002_TheAltStatement_009	The killed-block in an <b>alt</b> -statement is triggered as expected when the component is killed (loopback case).	Clause 20.2	m	y
96	Sem_2002_TheAltStatement_010	The timeout branch is taken as expected (loopback case).	Clause 20.2	m	y
97	Sem_2002_TheAltStatement_011	The behaviour continues after the <b>alt</b> -statement (loopback case).	Clause 20.2	m	y
98	Sem_2002_TheAltStatement_012	<b>alt</b> statements are correctly handled for dynamically mapped ports	Clause 20.2	m	y
99	Sem_2002_TheAltStatement_013	<b>alt</b> statements are correctly handled for dynamically mapped ports	Clause 20.2	m	y
100	Sem_2002_TheAltStatement_014	no default activation after else	Clause 20.2	m	y

## 5.118. The **repeat** statement

Table 117. The **repeat** statement

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_2003_the_repeat_statement_001	The IUT correctly processes <b>repeat</b> statements	Clause 20.3	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
2	Sem_2003_the_repeat_statement_001	The IUT correctly processes <b>repeat</b> statements	Clause 20.3	m	y
3	Sem_2003_the_repeat_statement_002	repeat in procedure call block	Clause 20.3	m	n
4	Sem_2003_the_repeat_statement_003	repeat in alstep branch of <b>alt</b> statements	Clause 20.3	m	y
5	Sem_2003_the_repeat_statement_004	repeat in executed default	Clause 20.3	m	y

## 5.119. The **interleave** statement

Table 118. The **interleave** statement

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_2004_InterleaveStatement_001	Validate that <b>interleave</b> statements are properly handled.	Clause 20.4	m	n
2	NegSem_2004_InterleaveStatement_002	while loop inside <b>interleave</b>	Clause 20.4	m	n
3	NegSem_2004_InterleaveStatement_003	do-while loop inside <b>interleave</b>	Clause 20.4	m	n
4	NegSem_2004_InterleaveStatement_004	goto inside <b>interleave</b>	Clause 20.4	m	y
5	NegSem_2004_InterleaveStatement_005	activate call inside <b>interleave</b>	Clause 20.4	m	n
6	NegSem_2004_InterleaveStatement_006	deactivate call inside <b>interleave</b>	Clause 20.4	m	n
7	NegSem_2004_InterleaveStatement_007	stop inside <b>interleave</b>	Clause 20.4	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
8	NegSem_2004_InterleaveStatement_008	repeat inside interleave	Clause 20.4	m	y
9	NegSem_2004_InterleaveStatement_009	return inside interleave	Clause 20.4	m	y
10	NegSem_2004_InterleaveStatement_010	explicit altstep call inside interleave	Clause 20.4	m	y
11	NegSem_2004_InterleaveStatement_011	direct function call containing <b>reception</b> statement inside interleave	Clause 20.4	m	n
12	NegSem_2004_InterleaveStatement_012	indirect function call containing <b>reception</b> statement inside interleave	Clause 20.4	m	n
13	NegSyn_2004_InterleaveStatement_001	Validate that <b>interleave</b> statements are properly handled.	Clause 20.4	m	y
14	NegSyn_2004_InterleaveStatement_002	Validate that <b>interleave</b> statements are properly handled.	Clause 20.4	m	y
15	Sem_2004_InterleaveStatement_001	Validate that <b>interleave</b> statements are properly handled.	Clause 20.4	m	y
16	Sem_2004_InterleaveStatement_002	Validate that <b>interleave</b> statements are properly handled.	Clause 20.4	m	y
17	Sem_2004_InterleaveStatement_003	while loop inside interleave	Clause 20.4	m	y
18	Syn_2004_InterleaveStatement_001	Validate that <b>interleave</b> statements are properly handled.	Clause 20.4	m	y

## 5.120. The default mechanism

Table 119. The default mechanism

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_200501_the_default_mechanism_001	verify unsuccessful default termination	Clause 20.5.1	m	y
2	Sem_200501_the_default_mechanism_001	verify that activated default is invoked	Clause 20.5.1	m	y
3	Sem_200501_the_default_mechanism_002	verify that default are processed in interleave	Clause 20.5.1	m	y
4	Sem_200501_the_default_mechanism_003	verify than default are processed in interleave	Clause 20.5.1	m	y
5	Sem_200501_the_default_mechanism_004	verify that default processing order is correct	Clause 20.5.1	m	y
6	Sem_200501_the_default_mechanism_005	verify that default processing order is correct	Clause 20.5.1	m	y
7	Sem_200501_the_default_mechanism_006	verify repeat command <b>behaviour</b> in invoked default	Clause 20.5.1	m	y
8	Sem_200501_the_default_mechanism_007	verify break command <b>behaviour</b> in invoked default	Clause 20.5.1	m	y
9	Sem_200501_the_default_mechanism_008	verify stop command <b>behaviour</b> in invoked default	Clause 20.5.1	m	y
10	NegSem_200503_the_deactivate_operation_001	verify that deactivate deactivated default causes error	Clause 20.5.3	m	n
11	NegSem_200503_the_deactivate_operation_002	verify that deactivate uninitialized default causes error	Clause 20.5.3	m	y
12	NegSem_200503_the_deactivate_operation_003	verify that error is generated when deactivated reference is on incorrect type	Clause 20.5.3	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
13	Sem_200503_the_deactivate_operation_001	verify that deactivate removes default from list of defaults	Clause 20.5.3	m	y
14	Sem_200503_the_deactivate_operation_002	verify that deactivate removes default from list of defaults	Clause 20.5.3	m	y
15	Sem_200503_the_deactivate_operation_003	verify that deactivate without parameter clear list of defaults	Clause 20.5.3	m	y
16	Sem_200503_the_deactivate_operation_004	verify that deactivate <b>null</b> works correctly	Clause 20.5.3	m	y

## 5.121. The **activate** operation

Table 120. The **activate** operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_200502_the_activate_operation_001	verify error is generated if activated altstep <b>runs on</b> incompatible component	Clause 20.5.2	m	y
2	NegSem_200502_the_activate_operation_002	verify error is generated when passing local timer	Clause 20.5.2	m	y
3	NegSem_200502_the_activate_operation_003	verify error is generated when activating altstep with <b>out</b> parameters	Clause 20.5.2	m	n
4	NegSem_200502_the_activate_operation_004	verify error is generated when activating altstep with <b>inout</b> parameters	Clause 20.5.2	m	n
5	NegSem_200502_the_activate_operation_005	verify error is generated when activating function	Clause 20.5.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
6	NegSem_200502_the_activate_operation_006	local timer as a parameter of activated altstep in module control	Clause 20.5.2	m	y
7	NegSem_200502_the_activate_operation_007	local timer (referenced through timer parameter) as a parameter of activated altstep in module control	Clause 20.5.2	m	y
8	Sem_200502_the_activate_operation_001	verify that <b>activate</b> operation can be used as standalone statement	Clause 20.5.2	m	y
9	Sem_200502_the_activate_operation_002	verify that parameters are passed at activation time	Clause 20.5.2	m	y
10	Sem_200502_the_activate_operation_003	verify that passing component timer to activated altstep	Clause 20.5.2	m	y
11	Sem_200502_the_activate_operation_004	verify passing port parameter to activated altstep	Clause 20.5.2	m	y
12	Sem_200502_the_activate_operation_005	control block timer as a parameter of activated altstep	Clause 20.5.2	m	n
13	Sem_200502_the_activate_operation_006	control block timer (referenced through timer parameter) as a parameter of activated altstep	Clause 20.5.2	m	n

## 5.122. Connection operations

Table 121. Connection operations

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_2101_TopLevel_001	Verify that <b>connect</b> operation cannot contain a system port	Clause 21.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
2	NegSem_2101_TopLevel_002	Verify that <b>map</b> operation fails if both operands are component ports	Clause 21.1	m	y

## 5.123. The **connect** and **map** operations

Table 122. The **connect** and **map** operations

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_2101_01_connect_and_map_operations_001	Verify that <b>connect</b> operation rejects ports with incompatible message type lists	Clause 21.1.1	m	y
2	NegSem_2101_01_connect_and_map_operations_002	Verify that <b>connect</b> operation rejects ports with only partially compatible message type lists	Clause 21.1.1	m	y
3	NegSem_2101_01_connect_and_map_operations_003	Verify that <b>map</b> operation rejects ports with incompatible message type lists	Clause 21.1.1	m	y
4	NegSem_2101_01_connect_and_map_operations_004	Verify that <b>connect</b> operation rejects ports with only partially compatible message type lists	Clause 21.1.1	m	y
5	NegSem_2101_01_connect_and_map_operations_005	Verify that <b>map</b> parameters cannot be used when not declared in the port type	Clause 21.1.1	m	n
6	NegSem_2101_01_connect_and_map_operations_006	Verify that type incompatibility in <b>map</b> parameters is detected	Clause 21.1.1	m	n
7	NegSem_2101_01_connect_and_map_operations_007	Verify that parameter count mismatch in <b>map</b> param clause is detected	Clause 21.1.1	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
8	NegSem_2101_01_connect_and_map_operations_008	violation of strong typing rules for local ports in <b>connect</b> operations	Clause 21.1.1	m	y
9	NegSem_2101_01_connect_and_map_operations_009	violation of strong typing rules for MTC ports in <b>connect</b> operations	Clause 21.1.1	m	n
10	NegSem_2101_01_connect_and_map_operations_010	violation of strong typing rules for PTC ports in <b>connect</b> operations	Clause 21.1.1	m	y
11	NegSem_2101_01_connect_and_map_operations_011	violation of strong typing rules for local ports in <b>map</b> operations	Clause 21.1.1	m	n
12	NegSem_2101_01_connect_and_map_operations_012	violation of strong typing rules for MTC ports in <b>map</b> operations	Clause 21.1.1	m	n
13	NegSem_2101_01_connect_and_map_operations_013	violation of strong typing rules for PTC ports in <b>map</b> operations	Clause 21.1.1	m	y
14	NegSem_2101_01_connect_and_map_operations_014	violation of strong typing rules for system ports in <b>map</b> operations	Clause 21.1.1	m	n
15	NegSem_2101_01_connect_operation_001	The the IUT does not allows two output port connection	Clause 21.1.1	m	y
16	NegSem_2101_01_connect_operation_002	The the IUT does not allow connecting incompatible ports	Clause 21.1.1	m	y
17	NegSem_2101_01_map_operation_001	IUT cannot map input port with output port	Clause 21.1.1	m	n
18	NegSem_2101_01_map_operation_002	IUT cannot map input port with output port	Clause 21.1.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
19	Sem_210101_connect_and_map_operations_001	<b>Connect</b> operation accepts ports with compatible message type list containing several types	Clause 21.1.1	m	y
20	Sem_210101_connect_and_map_operations_002	<b>Connect</b> operation accepts ports where <b>outlist</b> of the 1st port is a subset of <b>inlist</b> of the 2nd port	Clause 21.1.1	m	y
21	Sem_210101_connect_and_map_operations_003	<b>Connect</b> operation accepts ports where <b>outlist</b> of the 2nd port is a subset of <b>inlist</b> of the 1st port	Clause 21.1.1	m	y
22	Sem_210101_connect_and_map_operations_004	<b>Connect</b> operation accepts ports where <b>outlist</b> of both ports are subsets of <b>inlist</b> of the counterpart ports	Clause 21.1.1	m	y
23	Sem_210101_connect_and_map_operations_005	<b>Map</b> operation accepts ports with compatible message type list containing several types	Clause 21.1.1	m	y
24	Sem_210101_connect_and_map_operations_006	<b>Map</b> operation accepts ports with compatible message type list containing several types	Clause 21.1.1	m	y
25	Sem_210101_connect_and_map_operations_007	<b>Map</b> operation accepts ports with compatible message type list containing several types	Clause 21.1.1	m	y
26	Sem_210101_connect_and_map_operations_008	<b>Map</b> operation accepts ports with compatible message type list containing several types	Clause 21.1.1	m	y
27	Sem_210101_connect_and_map_operations_009	<b>Map</b> param statements are allowed in testcase block	Clause 21.1.1	m	n
28	Sem_210101_connect_and_map_operations_010	Verify that the param part can be skipped in <b>map</b> operations	Clause 21.1.1	m	n

## 5.124. The **disconnect** and **unmap** operations

Table 123. The **disconnect** and **unmap** operations

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_210102_disconnect_and_unmap_operations_001	Verify that <b>unmap</b> operation cannot contain a system port reference	Clause 21.1.2	m	y
2	NegSem_210102_disconnect_and_unmap_operations_002	Verify that disconnecting all ports of all components is not possible in PTC	Clause 21.1.2	m	n
3	NegSem_210102_disconnect_and_unmap_operations_003	Verify that unmapping all ports of all components is not possible in PTC	Clause 21.1.2	m	n
4	NegSem_210102_disconnect_and_unmap_operations_004	Verify that unmap parameters cannot be used when not declared in the port type	Clause 21.1.2	m	n
5	NegSem_210102_disconnect_and_unmap_operations_005	Verify that type incompatibility in <b>unmap</b> parameters is detected	Clause 21.1.2	m	n
6	NegSem_210102_disconnect_and_unmap_operations_006	Verify that parameter count mismatch in <b>unmap</b> param clause is detected	Clause 21.1.2	m	n
7	NegSem_210102_disconnect_and_unmap_operations_007	Verify that the param clause cannot be used when <b>unmap</b> contains no system port reference	Clause 21.1.2	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
8	NegSem_210102_disconnect_and_unmap_operations_008	violation of strong typing rules for local ports in <b>disconnect</b> operations	Clause 21.1.2	m	y
9	NegSem_210102_disconnect_and_unmap_operations_009	violation of strong typing rules for MTC ports in <b>disconnect</b> operations	Clause 21.1.2	m	n
10	NegSem_210102_disconnect_and_unmap_operations_010	violation of strong typing rules for PTC ports in <b>disconnect</b> operations	Clause 21.1.2	m	y
11	NegSem_210102_disconnect_and_unmap_operations_011	violation of strong typing rules for local ports in <b>unmap</b> operations	Clause 21.1.2	m	n
12	NegSem_210102_disconnect_and_unmap_operations_012	violation of strong typing rules for MTC ports in <b>unmap</b> operations	Clause 21.1.2	m	n
13	NegSem_210102_disconnect_and_unmap_operations_013	violation of strong typing rules for PTC ports in <b>unmap</b> operations	Clause 21.1.2	m	y
14	NegSem_210102_disconnect_and_unmap_operations_014	violation of strong typing rules for system ports in <b>unmap</b> operations	Clause 21.1.2	m	n
15	NegSem_210102_disconnect_operation_001	Mapped port cannot disconnect	Clause 21.1.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
16	Sem_210102_disconnect_and_unmap_operations_001	<b>Disconnect</b> operation with two parameters works correctly	Clause 21.1.2	m	y
17	Sem_210102_disconnect_and_unmap_operations_002	<b>Disconnect</b> operation with one parameter works correctly	Clause 21.1.2	m	n
18	Sem_210102_disconnect_and_unmap_operations_003	<b>Disconnect</b> operation with all ports of a component works correctly	Clause 21.1.2	m	n
19	Sem_210102_disconnect_and_unmap_operations_004	<b>Disconnect</b> operation with no argument works correctly	Clause 21.1.2	m	n
20	Sem_210102_disconnect_and_unmap_operations_005	<b>Unmap</b> operation with one system port as a parameter works correctly	Clause 21.1.2	m	n
21	Sem_210102_disconnect_and_unmap_operations_006	<b>Unmap</b> operation with one component port as a parameter works correctly	Clause 21.1.2	m	n
22	Sem_210102_disconnect_and_unmap_operations_007	<b>Unmap</b> operation with all ports of a component works correctly	Clause 21.1.2	m	n
23	Sem_210102_disconnect_and_unmap_operations_008	<b>Unmap</b> operation with no parameters works correctly	Clause 21.1.2	m	n
24	Sem_210102_disconnect_and_unmap_operations_009	All component notation works correctly in <b>unmap</b> operations	Clause 21.1.2	m	n
25	Sem_210102_disconnect_and_unmap_operations_010	Verify that no error is generated when unmapping ports that are not mapped	Clause 21.1.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
26	Sem_210102_disconnect_and_unmap_operations_011	<b>Unmap</b> param statements are allowed in testcase block	Clause 21.1.2	m	n
27	Sem_210102_disconnect_and_unmap_operations_012	Verify that the param part can be skipped in <b>unmap</b> operations	Clause 21.1.2	m	n
28	Sem_210102_disconnect_and_unmap_operations_013	Verify that the param clause can be used when <b>unmap</b> contains a single system port parameter	Clause 21.1.2	m	n
29	Sem_210102_disconnect_operation_001	All component notation work correctly in <b>disconnect</b> operation	Clause 21.1.2	m	n
30	Sem_210102_disconnect_operation_002	Disconnect has no effect on components that are not connected	Clause 21.1.2	m	y
31	Sem_210102_unmap_operation_001	<b>Unmap</b> operation of a system and component port works correctly	Clause 21.1.2	m	y
32	Sem_210102_unmap_operation_002	<b>Unmap</b> operation of a component and system port works correctly	Clause 21.1.2	m	y

## 5.125. Test case operations

Table 124. Test case operations

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_2102_testcase_stop_001	Stopping test case	Clause 21.2	m	y

## 5.126. The **create** operation

Table 125. The **create** operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_210301_CreateOperation_001	Named components on hosts are accepted	Clause 21.3.1	m	y
2	NegSem_210301_CreateOperation_002	Named components on hosts are accepted	Clause 21.3.1	m	y
3	NegSem_210301_CreateOperation_003	Named components on hosts are accepted	Clause 21.3.1	m	y
4	Sem_210301_CreateOperation_001	Unnamed components can be created	Clause 21.3.1	m	y
5	Sem_210301_CreateOperation_002	Named components can be created	Clause 21.3.1	m	y
6	Sem_210301_CreateOperation_003	Unnamed alive components on hosts can be created	Clause 21.3.1	m	y
7	Sem_210301_CreateOperation_004	Named alive components can be created	Clause 21.3.1	m	y
8	Syn_210301_CreateOperation_001	Named components on hosts are accepted	Clause 21.3.1	m	y

## 5.127. The **start test** component operation

Table 126. The **start test** component operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_210302_Start_test_component_001	Non-alive ptc cannot start again	Clause 21.3.2	m	y
2	NegSem_210302_Start_test_component_002	Only component type is allowed for ptc declaration	Clause 21.3.2	m	y
3	NegSem_210302_Start_test_component_003	altstep in test component <b>start</b> operation	Clause 21.3.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
4	NegSem_210302_Start_test_component_004	starting behaviour on already running non-alive component	Clause 21.3.2	m	y
5	NegSem_210302_Start_test_component_005	starting behaviour on already running non-alive component	Clause 21.3.2	m	y
6	NegSem_210302_Start_test_component_006	function invocation in the <b>start</b> operation doesn't return a component	Clause 21.3.2	m	y
7	NegSem_210302_Start_test_component_007	starting function with incompatible <b>runs on</b> clause	Clause 21.3.2	m	y
8	NegSem_210302_Start_test_component_008	passing port to started component function	Clause 21.3.2	m	y
9	NegSem_210302_Start_test_component_009	passing default to started component function	Clause 21.3.2	m	y
10	NegSem_210302_Start_test_component_010	passing timer to started component function	Clause 21.3.2	m	y
11	NegSem_210302_Start_test_component_011	passing structured value containing ports to started component function	Clause 21.3.2	m	y
12	NegSem_210302_Start_test_component_012	passing default to started component function	Clause 21.3.2	m	y
13	Sem_210302_Start_test_component_001	Alive test components are allowed to start another function	Clause 21.3.2	m	y
14	Sem_210302_Start_test_component_002	component variable reference in <b>start</b> operation	Clause 21.3.2	m	y
15	Sem_210302_Start_test_component_003	test component as a result of function invocation in <b>start</b> operation	Clause 21.3.2	m	y
16	Sem_210302_Start_test_component_004	component variable value reuse in alive component	Clause 21.3.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
17	Sem_210302_S tart_test_comp onent_005	timer reuse in alive component	Clause 21.3.2	m	y
18	Sem_210302_S tart_test_comp onent_006	port reuse in alive component	Clause 21.3.2	m	y
19	Sem_210302_S tart_test_comp onent_007	verdict value reuse in alive component	Clause 21.3.2	m	y
20	Sem_210302_S tart_test_comp onent_008	timer reuse in alive component	Clause 21.3.2	m	y
21	Sem_210302_S tart_test_comp onent_009	deactivation of defaults in alive components	Clause 21.3.2	m	n
22	Sem_210302_S tart_test_comp onent_010	starting function with compatible <b>runs on</b> clause	Clause 21.3.2	m	y
23	Sem_210302_S tart_test_comp onent_011	altstep in test component <b>start</b> operation	Clause 21.3.2	m	n
24	Sem_210302_S tart_test_comp onent_012	<b>start</b> operation works with parametered altsteps	Clause 21.3.2	m	n
25	Sem_210302_S tart_test_comp onent_013	<b>inout</b> parameters will be passed to the function by value, i.e. like <b>in</b> -parameters	Clause 21.3.2	m	y
26	Sem_210302_S tart_test_comp onent_014	<b>inout</b> parameters will be passed to the function by value, i.e. like <b>in</b> -parameters	Clause 21.3.2	m	y

## 5.128. The **stop** test behaviour operation

Table 127. The **stop** test behaviour operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_210303_Stop_test_component_001	restarting explicitly stopped non-alive component	Clause 21.3.3	m	y
2	NegSem_210303_Stop_test_component_002	stopping all PTCs from a PTC	Clause 21.3.3	m	y
3	NegSem_210303_Stop_test_component_003	applying <b>stop</b> operation to a variable of a different than component type	Clause 21.3.3	m	y
4	NegSem_210303_Stop_test_component_004	applying <b>stop</b> operation to a function call result of a different than component type	Clause 21.3.3	m	y
5	Sem_210303_Stop_test_component_001	<b>Component.stop</b> causes the stopping of the target component.	Clause 21.3.3	m	y
6	Sem_210303_Stop_test_component_002	<b>Self.stop</b> stops current component	Clause 21.3.3	m	y
7	Sem_210303_Stop_test_component_003	stopping MTC from PTC	Clause 21.3.3	m	y
8	Sem_210303_Stop_test_component_004	<b>stop.self</b> in MTC	Clause 21.3.3	m	y
9	Sem_210303_Stop_test_component_005	alive component restart after explicit stop	Clause 21.3.3	m	y
10	Sem_210303_Stop_test_component_006	component variable value reuse in alive component after explicit stop	Clause 21.3.3	m	y
11	Sem_210303_Stop_test_component_007	timer reuse in alive component after explicit stop	Clause 21.3.3	m	y
12	Sem_210303_Stop_test_component_008	port reuse in alive component after explicit stop	Clause 21.3.3	m	y
13	Sem_210303_Stop_test_component_009	verdict value reuse in alive component after explicit stop	Clause 21.3.3	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
14	Sem_210303_S top_test_comp onent_010	deactivation of defaults in alive components after explicit stop	Clause 21.3.3	m	n
15	Sem_210303_S top_test_comp onent_011	stopping all PTCs	Clause 21.3.3	m	y

## 5.129. The **kill** test component operation

Table 128. The **kill** test component operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_210304_kill_test_co mponent_001	restarting explicitly killed non-alive component	Clause 21.3.4	m	y
15	NegSem_210304_kill_test_co mponent_002	restarting explicitly killed alive component	Clause 21.3.4	m	y
2	NegSem_210304_kill_test_co mponent_003	killing all PTCs from a PTC	Clause 21.3.4	m	y
3	NegSem_210304_kill_test_co mponent_004	applying <b>kill</b> operation to a variable of a different than component type	Clause 21.3.4	m	y
4	NegSem_210304_kill_test_co mponent_005	applying <b>kill</b> operation to a function call result of a different than component type	Clause 21.3.4	m	y
5	Sem_210304_k ill_test_compo nent_001	Kill operator stops a non alive test components.	Clause 21.3.4	m	y
6	Sem_210304_k ill_test_compo nent_002	All component kill stop all ptc	Clause 21.3.4	m	y
7	Sem_210304_k ill_test_compo nent_003	Kill operator stops only non alive test components	Clause 21.3.4	m	y
8	Sem_210304_k ill_test_compo nent_004	Self kill called in a functions stops non alive test comp.	Clause 21.3.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
9	Sem_210304_kill_test_component_005	standalone kill in alive PTC	Clause 21.3.4	m	y
10	Sem_210304_kill_test_component_006	killing MTC from PTC	Clause 21.3.4	m	y

## 5.130. The **alive** operation

Table 129. The **alive** operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_210305_alive_operation_001	Verify that error occurs when any from alive is applied to single component	Clause 21.3.5	m	y
2	NegSem_210305_alive_operation_002	Verify that error occurs when any from alive is applied to 1D array and index target is array	Clause 21.3.5	m	y
3	NegSem_210305_alive_operation_003	Verify that error occurs when any from alive is applied to 1D array and index target has wrong type	Clause 21.3.5	m	y
4	NegSem_210305_alive_operation_004	Verify that any from alive index redirection for multi-D arrays requires arrays of correct size	Clause 21.3.5	m	y
5	NegSem_210305_alive_operation_005	Verify that any from alive index redirection for multi-D arrays requires arrays	Clause 21.3.5	m	y
6	NegSem_210305_alive_operation_006	partially initialized array in any from <b>ComponentArrayRef.alive</b>	Clause 21.3.5	m	n
7	NegSyn_210305_alive_operation_001	Verify that error occurs when using index redirection in <b>component.alive</b> operation	Clause 21.3.5	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
8	NegSyn_210305_alive_operation_002	Verify that error occurs when using index redirection in any <b>component.alive</b> operation	Clause 21.3.5	m	y
9	NegSyn_210305_alive_operation_003	Verify that error occurs when using index redirection in all <b>component.alive</b> operation	Clause 21.3.5	m	y
10	NegSyn_210305_alive_operation_004	Verify that error occurs when using index redirection in function <b>instance.alive</b> operation	Clause 21.3.5	m	y
11	Sem_210305_alive_operation_001	Testing alive operator with an alive test component	Clause 21.3.5	m	y
12	Sem_210305_alive_operation_002	Test all component alive operator with alive test components	Clause 21.3.5	m	y
13	Sem_210305_alive_operation_003	Alive operator gives a correct boolean result	Clause 21.3.5	m	y
14	Sem_210305_alive_operation_004	Test any component alive operator with multiple test components	Clause 21.3.5	m	y
15	Sem_210305_alive_operation_005	Verify that any from alive returns false if no component is alive	Clause 21.3.5	m	y
16	Sem_210305_alive_operation_006	Verify that any from alive returns true if at least one component is inactive	Clause 21.3.5	m	y
17	Sem_210305_alive_operation_007	Verify that any from alive returns true if at least one component is running	Clause 21.3.5	m	y
18	Sem_210305_alive_operation_008	Verify that any from alive doesn't assign index when no component is alive	Clause 21.3.5	m	y
19	Sem_210305_alive_operation_009	Verify that any from alive assigns index	Clause 21.3.5	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
20	Sem_210305_a live_operation_010	Verify that any from alive can be used inside expressions	Clause 21.3.5	m	y
21	Sem_210305_a live_operation_011	Verify that any from alive index redirection works for multidimensional arrays	Clause 21.3.5	m	y
22	Sem_210305_a live_operation_012	Verify that any from alive doesn't change index variable when no component is alive	Clause 21.3.5	m	y
23	Sem_210305_a live_operation_013	Verify any from alive index redirection to lazy variable	Clause 21.3.5	m	y
24	Sem_210305_a live_operation_014	Verify any from alive index redirection to fuzzy variable	Clause 21.3.5	m	y
25	Sem_210305_a live_operation_015	Alive applied on the <code>mtc</code> the operation returns true	Clause 21.3.5	m	n

## 5.131. The `running` operation

Table 130. The `running` operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_210306_running_operation_001	Verify that error occurs when any from running is applied to single component	Clause 21.3.6	m	y
2	NegSem_210306_running_operation_002	Verify that error occurs when any from running is applied to 1D array and index target is array	Clause 21.3.6	m	y
3	NegSem_210306_running_operation_003	Verify that error occurs when any from running is applied to 1D array and index target has wrong type	Clause 21.3.6	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
4	NegSem_210306_running_operation_004	Verify that any from running index redirection for multi-D arrays requires arrays of correct size	Clause 21.3.6	m	y
5	NegSem_210306_running_operation_005	Verify that any from running index redirection for multi-D arrays requires arrays	Clause 21.3.6	m	y
6	NegSem_210306_running_operation_006	partially initialized array in any from <b>ComponentArrayRef.running</b>	Clause 21.3.6	m	n
7	NegSyn_210306_running_operation_001	Verify that error occurs when using index redirection in <b>component.running</b> operation	Clause 21.3.6	m	y
8	NegSyn_210306_running_operation_002	Verify that error occurs when using index redirection in any <b>component.running</b> operation	Clause 21.3.6	m	y
9	NegSyn_210306_running_operation_003	Verify that error occurs when using index redirection in all <b>component.running</b> operation	Clause 21.3.6	m	y
10	NegSyn_210306_running_operation_004	Verify that error occurs when using index redirection in function <b>instance.running</b> operation	Clause 21.3.6	m	y
11	Sem_210306_running_operation_001	Check that running operator provides information about test components.	Clause 21.3.6	m	y
12	Sem_210306_running_operation_002	Any component with running can check the status of the test components	Clause 21.3.6	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
13	Sem_210306_running_operation_003	Verify that any from running returns false if no component is running	Clause 21.3.6	m	y
14	Sem_210306_running_operation_004	Verify that any from running returns true if at least one component is running	Clause 21.3.6	m	y
15	Sem_210306_running_operation_005	Verify that any from running doesn't assign index when no component is running	Clause 21.3.6	m	y
16	Sem_210306_running_operation_006	Verify that any from running doesn't change index variable when no component is running	Clause 21.3.6	m	y
17	Sem_210306_running_operation_007	Verify that any from running assigns index	Clause 21.3.6	m	y
18	Sem_210306_running_operation_008	Verify that any from running can be used inside expressions	Clause 21.3.6	m	y
19	Sem_210306_running_operation_009	Verify that any from running index redirection works for multidimensional arrays	Clause 21.3.6	m	y
20	Sem_210306_running_operation_010	Verify any from running index redirection to lazy variable	Clause 21.3.6	m	y
21	Sem_210306_running_operation_011	Verify any from running index redirection to fuzzy variable	Clause 21.3.6	m	y
22	Sem_210306_running_operation_012	Verify that all <code>component.running</code> produces true if some components haven't been started	Clause 21.3.6	m	y
23	Sem_210306_running_operation_013	Check that running operator provides information about <code>mtc</code>	Clause 21.3.6	m	n

## 5.132. The **done** operation

Table 131. The **done** operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_2103_07_done_operation_001	Done operator can be used only for ptc.	Clause 21.3.7	m	y
2	NegSem_2103_07_done_operation_002	Verify that error occurs when any from done is applied to single component	Clause 21.3.7	m	y
3	NegSem_2103_07_done_operation_003	Verify that error occurs when any from done is applied to 1D array and index target is array	Clause 21.3.7	m	y
4	NegSem_2103_07_done_operation_004	Verify that error occurs when any from done is applied to 1D array and index target has wrong type	Clause 21.3.7	m	y
5	NegSem_2103_07_done_operation_005	Verify that any from done index redirection for multi-D arrays requires arrays of correct size	Clause 21.3.7	m	y
6	NegSem_2103_07_done_operation_006	Verify that any from done index redirection for multi-D arrays requires arrays	Clause 21.3.7	m	y
7	NegSem_2103_07_done_operation_007	variable of incorrect type used for storing verdict in <b>done</b> operation	Clause 21.3.7	m	n
8	NegSem_2103_07_done_operation_008	storing verdict in any <b>component.done</b> operation	Clause 21.3.7	m	n
9	NegSem_2103_07_done_operation_009	storing verdict in all <b>component.done</b> operation	Clause 21.3.7	m	n
10	NegSem_2103_07_done_operation_010	partially initialized array in any from <b>ComponentArrayRef.done</b>	Clause 21.3.7	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
11	NegSyn_210307_done_operation_001	Verify that error occurs when using index redirection in <b>component.done</b> operation	Clause 21.3.7	m	y
12	NegSyn_210307_done_operation_002	Verify that error occurs when using index redirection in any <b>component.done</b> operation	Clause 21.3.7	m	y
13	NegSyn_210307_done_operation_003	Verify that error occurs when using index redirection in all <b>component.done</b> operation	Clause 21.3.7	m	y
14	NegSyn_210307_done_operation_004	Verify that error occurs when using index redirection in function <b>instance.done</b> operation	Clause 21.3.7	m	y
15	Sem_210307_done_operation_001	All component with done can check that at least one test component is not done	Clause 21.3.7	m	y
16	Sem_210307_done_operation_002	Verify that any from done is not triggered if no component has been started	Clause 21.3.7	m	y
17	Sem_210307_done_operation_003	Verify that any from done matches if at least one component is stopped or killed	Clause 21.3.7	m	y
18	Sem_210307_done_operation_004	Verify that any from done doesn't assign index when no component has been stopped or killed	Clause 21.3.7	m	y
19	Sem_210307_done_operation_005	Verify that any from done doesn't change index variable when no component has been stopped or killed	Clause 21.3.7	m	y
20	Sem_210307_done_operation_006	Verify that any from done assigns index	Clause 21.3.7	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
21	Sem_210307_done_operation_007	Verify that any from done is not triggered if all components are executing function	Clause 21.3.7	m	y
22	Sem_210307_done_operation_008	Verify that any from done index redirection works for multidimensional arrays	Clause 21.3.7	m	y
23	Sem_210307_done_operation_009	Verify any from done index redirection to lazy variable	Clause 21.3.7	m	y
24	Sem_210307_done_operation_010	Verify any from done index redirection to fuzzy variable	Clause 21.3.7	m	y
25	Sem_210307_done_operation_011	Verify that all <code>component.done</code> produces true if some components haven't been started	Clause 21.3.7	m	y
26	Sem_210307_done_operation_012	storing verdict in <code>done</code> operation	Clause 21.3.7	m	n

## 5.133. The `killed` operation

Table 132. The `killed` operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_210308_killed_operation_001	Killed operator is only valid for ptc's.	Clause 21.3.8	m	y
2	NegSem_210308_killed_operation_002	Verify that error occurs when any from killed is applied to single component	Clause 21.3.8	m	y
3	NegSem_210308_killed_operation_003	Verify that error occurs when any from killed is applied to 1D array and index target is array	Clause 21.3.8	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
4	NegSem_210308_killed_operation_004	Verify that error occurs when any from killed is applied to 1D array and index target has wrong type	Clause 21.3.8	m	y
5	NegSem_210308_killed_operation_005	Verify that any from killed index redirection for multi-D arrays requires arrays of correct size	Clause 21.3.8	m	y
6	NegSem_210308_killed_operation_006	Verify that any from killed index redirection for multi-D arrays requires arrays	Clause 21.3.8	m	y
7	NegSem_210308_killed_operation_007	variable of incorrect type used for storing verdict in <b>killed</b> operation	Clause 21.3.8	m	n
8	NegSem_210308_killed_operation_008	storing verdict in any <b>component.killed</b> operation	Clause 21.3.8	m	n
9	NegSem_210308_killed_operation_009	storing verdict in all <b>component.killed</b> operation	Clause 21.3.8	m	n
10	NegSem_210308_killed_operation_010	partially initialized array in any from <b>ComponentArrayRef.killed</b>	Clause 21.3.8	m	y
11	NegSyn_210308_killed_operation_001	Verify that error occurs when using index redirection in <b>component.killed</b> operation	Clause 21.3.8	m	y
12	NegSyn_210308_killed_operation_002	Verify that error occurs when using index redirection in any <b>component.killed</b> operation	Clause 21.3.8	m	y
13	NegSyn_210308_killed_operation_003	Verify that error occurs when using index redirection in all <b>component.killed</b> operation	Clause 21.3.8	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
14	NegSyn_210308_killed_operation_004	Verify that error occurs when using index redirection in function <code>instance.killed</code> operation	Clause 21.3.8	m	y
15	Sem_210308_killed_operation_001	All component kill can be checked with killed operator	Clause 21.3.8	m	y
16	Sem_210308_killed_operation_002	check that any component and killed operator can check that at least one test component is running or not	Clause 21.3.8	m	y
17	Sem_210308_killed_operation_003	The alive keyword is properly evaluated	Clause 21.3.8	m	y
18	Sem_210308_killed_operation_004	Verify that any from killed is not triggered if no component has been started	Clause 21.3.8	m	y
19	Sem_210308_killed_operation_005	Verify that any from killed matches if at least one component is stopped or killed	Clause 21.3.8	m	y
20	Sem_210308_killed_operation_006	Verify that any from killed doesn't assign index when no component has been killed	Clause 21.3.8	m	y
21	Sem_210308_killed_operation_007	Verify that any from killed doesn't change index variable when no component has been killed	Clause 21.3.8	m	y
22	Sem_210308_killed_operation_008	Verify that any from killed assigns index	Clause 21.3.8	m	y
23	Sem_210308_killed_operation_009	Verify that any from killed is not triggered if all components are executing function	Clause 21.3.8	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
24	Sem_210308_killed_operation_010	Verify that any from killed index redirection works for multidimensional arrays	Clause 21.3.8	m	y
25	Sem_210308_killed_operation_011	Verify any from killed index redirection to lazy variable	Clause 21.3.8	m	y
26	Sem_210308_killed_operation_012	Verify any from killed index redirection to fuzzy variable	Clause 21.3.8	m	y
27	Sem_210308_killed_operation_013	Verify that any from killed is not triggered if when alive component has stopped execution	Clause 21.3.8	m	y
28	Sem_210308_killed_operation_014	storing verdict in <b>killed</b> operation	Clause 21.3.8	m	n

## 5.134. The **send** operation

Table 133. The **send** operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_220201_SendOperation_001	The IUT correctly handles message sending operations	Clause 22.2.1	m	y
2	NegSem_220201_SendOperation_002	The IUT correctly handles message sending operations	Clause 22.2.1	m	y
3	NegSem_220201_SendOperation_003	The IUT correctly handles message sending operations	Clause 22.2.1	m	y
4	NegSem_220201_SendOperation_004	The IUT correctly handles message sending operations	Clause 22.2.1	m	y
5	NegSem_220201_SendOperation_005	missing to clause in case of one-to-many connections	Clause 22.2.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
6	NegSem_220201_SendOperation_006	partially initialized template	Clause 22.2.1	m	y
7	NegSem_220201_SendOperation_007	no type prefix in inline template	Clause 22.2.1	m	y
8	NegSem_220201_SendOperation_008	incompatible address value in <b>send</b> operation	Clause 22.2.1	m	n
9	NegSem_220201_SendOperation_009	<b>null</b> address in the to clause of <b>send</b> operation	Clause 22.2.1	m	n
10	NegSem_220201_SendOperation_010	<b>null</b> component in the to clause of <b>send</b> operation	Clause 22.2.1	m	y
11	NegSem_220201_SendOperation_011	<b>send</b> operation on disconnected and unmapped ports	Clause 22.2.1	m	y
12	Sem_220201_SendOperation_001	The IUT correctly handles message sending operations	Clause 22.2.1	m	y
13	Sem_220201_SendOperation_002	The IUT correctly handles message sending operations	Clause 22.2.1	m	y
14	Sem_220201_SendOperation_003	The IUT correctly handles message sending operations	Clause 22.2.1	m	y
15	Sem_220201_SendOperation_004	The IUT correctly handles message sending operations	Clause 22.2.1	m	y
16	Sem_220201_SendOperation_005	unicast <b>send</b> operation	Clause 22.2.1	m	y
17	Sem_220201_SendOperation_006	multicast <b>send</b> operation	Clause 22.2.1	m	n
18	Sem_220201_SendOperation_007	broadcast <b>send</b> operation	Clause 22.2.1	m	n

## 5.135. The **receive** operation

Table 134. The **receive** operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_220202_ReceiveOperation_001	The IUT correctly handles message receiving operations	Clause 22.2.2	m	y
2	NegSem_220202_ReceiveOperation_002	no type prefix in ambiguous inline template	Clause 22.2.2	m	y
3	NegSem_220202_ReceiveOperation_003	type mismatch in redirect value assignment	Clause 22.2.2	m	y
4	NegSem_220202_ReceiveOperation_004	type mismatch in redirect assignment of message fields	Clause 22.2.2	m	y
5	NegSem_220202_ReceiveOperation_005	applying <b>@decoded</b> to a forbidden field	Clause 22.2.2	m	y
6	NegSem_220202_ReceiveOperation_006	decoding error in <b>@decoded</b> redirect assignment	Clause 22.2.2	m	y
7	NegSem_220202_ReceiveOperation_007	invalid format value in <b>@decoded</b> redirect assignment	Clause 22.2.2	m	y
8	NegSem_220202_ReceiveOperation_008	value of wrong type in <b>@decoded</b> redirect assignment	Clause 22.2.2	m	y
9	NegSem_220202_ReceiveOperation_009	<b>encoding</b> parameter of <b>@decoded</b> redirect assignment applied to incorrect type	Clause 22.2.2	m	y
10	NegSem_220202_ReceiveOperation_010	attempting to store component name in redirect assignment	Clause 22.2.2	m	y
11	NegSem_220202_ReceiveOperation_011	attempting to receive a type missing from the port list	Clause 22.2.2	m	y
12	NegSem_220202_ReceiveOperation_012	value redirect assignment in receive any message statement	Clause 22.2.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
13	NegSem_220202_ReceiveOperation_013	trying to store address when receiving on connected port	Clause 22.2.2	m	n
14	NegSem_220202_ReceiveOperation_014	type mismatch in sender redirect assignment	Clause 22.2.2	m	y
15	NegSem_220202_ReceiveOperation_015	null component reference in from clause of receive operation	Clause 22.2.2	m	y
16	NegSem_220202_ReceiveOperation_016	null address reference in from clause of receive operation	Clause 22.2.2	m	n
17	NegSem_220202_ReceiveOperation_017	index redirection in standard port.receive	Clause 22.2.2	m	y
18	NegSem_220202_ReceiveOperation_018	index redirection in any port.receive	Clause 22.2.2	m	n
19	NegSem_220202_ReceiveOperation_019	insufficient value range of variable in index redirection	Clause 22.2.2	m	y
20	NegSem_220202_ReceiveOperation_020	insufficient array dimension of variable in index redirection	Clause 22.2.2	m	y
21	NegSem_220202_ReceiveOperation_021	insufficient element value range of variable in index redirection	Clause 22.2.2	m	y
22	NegSem_220202_ReceiveOperation_022	incompatible from and sender clause	Clause 22.2.2	m	y
23	NegSem_220202_ReceiveOperation_023	incompatible decmatch and @decoded value redirect	Clause 22.2.2	m	n
24	Sem_220202_ReceiveOperation_001	The IUT correctly handles message receiving operations	Clause 22.2.2	m	y
25	Sem_220202_ReceiveOperation_002	The IUT correctly handles message receiving operations	Clause 22.2.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
26	Sem_220202_ReceiveOperation_003	The IUT correctly handles message receiving operations	Clause 22.2.2	m	y
27	Sem_220202_ReceiveOperation_004	The IUT correctly handles message receiving operations	Clause 22.2.2	m	n
28	Sem_220202_ReceiveOperation_005	The IUT correctly handles message receiving operations	Clause 22.2.2	m	n
29	Sem_220202_ReceiveOperation_006	receive with a <b>from</b> clause (single item)	Clause 22.2.2	m	y
30	Sem_220202_ReceiveOperation_007	receive with a <b>from</b> clause (multiple items)	Clause 22.2.2	m	y
31	Sem_220202_ReceiveOperation_008	receive with a <b>from</b> clause (any component)	Clause 22.2.2	m	n
32	Sem_220202_ReceiveOperation_009	redirect assignment of message fields	Clause 22.2.2	m	y
33	Sem_220202_ReceiveOperation_010	redirect assignment of message fields	Clause 22.2.2	m	y
34	Sem_220202_ReceiveOperation_011	<b>@decoded</b> redirect assignment of a bitstring field	Clause 22.2.2	m	y
35	Sem_220202_ReceiveOperation_012	<b>@decoded</b> redirect assignment of a hexstring field	Clause 22.2.2	m	y
36	Sem_220202_ReceiveOperation_013	<b>@decoded</b> redirect assignment of an octetstring field	Clause 22.2.2	m	y
37	Sem_220202_ReceiveOperation_014	<b>@decoded</b> redirect assignment of a charstring field	Clause 22.2.2	m	y
38	Sem_220202_ReceiveOperation_015	<b>@decoded</b> redirect assignment of a universal charstring field	Clause 22.2.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
39	Sem_220202_ReceiveOperation_016	@decoded redirect assignment with encoding parameter	Clause 22.2.2	m	n
40	Sem_220202_ReceiveOperation_017	redirect assignment storing a component	Clause 22.2.2	m	y
41	Sem_220202_ReceiveOperation_018	redirect assignment storing an address	Clause 22.2.2	m	n
42	Sem_220202_ReceiveOperation_019	any from port.receive statement	Clause 22.2.2	m	y
43	Sem_220202_ReceiveOperation_020	single dimensional index redirect in any from port.receive statement	Clause 22.2.2	m	y
44	Sem_220202_ReceiveOperation_021	multidimensional index redirect in any from port.receive statement	Clause 22.2.2	m	y
45	Sem_220202_ReceiveOperation_022	standalone receive as a shorthand for alt statement	Clause 22.2.2	m	y
46	Sem_220202_ReceiveOperation_023	single dimensional index redirect in any from port.receive statement	Clause 22.2.2	m	n
47	Sem_220202_ReceiveOperation_024	lazy variable in value redirect	Clause 22.2.2	m	y
48	Sem_220202_ReceiveOperation_025	lazy variable in sender redirect	Clause 22.2.2	m	n
49	Sem_220202_ReceiveOperation_026	lazy variable in index redirect	Clause 22.2.2	m	y
50	Sem_220202_ReceiveOperation_027	fuzzy variable in value redirect	Clause 22.2.2	m	y
51	Sem_220202_ReceiveOperation_028	fuzzy variable in sender redirect	Clause 22.2.2	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
52	Sem_220202_ReceiveOperation_029	fuzzy variable in @index redirect	Clause 22.2.2	m	y
53	Sem_220202_ReceiveOperation_030	verify that a variable of a different but compatible type can be used in a redirect assignment	Clause 22.2.2	m	y

## 5.136. The trigger operation

Table 135. The trigger operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_220203_TriggerOperation_001	The IUT correctly handles message trigger operations	Clause 22.2.3	m	y
2	NegSem_220203_TriggerOperation_002	no type prefix in ambiguous inline template	Clause 22.2.3	m	y
3	NegSem_220203_TriggerOperation_003	type mismatch in redirect value assignment	Clause 22.2.3	m	y
4	NegSem_220203_TriggerOperation_004	type mismatch in redirect assignment of message fields	Clause 22.2.3	m	y
5	NegSem_220203_TriggerOperation_005	applying @decoded to a forbidden field	Clause 22.2.3	m	y
6	NegSem_220203_TriggerOperation_006	decoding error in @decoded redirect assignment	Clause 22.2.3	m	y
7	NegSem_220203_TriggerOperation_007	invalid format value in @decoded redirect assignment	Clause 22.2.3	m	y
8	NegSem_220203_TriggerOperation_008	value of wrong type in @decoded redirect assignment	Clause 22.2.3	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
9	NegSem_220203_TriggerOperation_009	encoding parameter of @decoded redirect assignment applied to incorrect type	Clause 22.2.3	m	y
10	NegSem_220203_TriggerOperation_010	attempting to store component name in redirect assignment	Clause 22.2.3	m	y
11	NegSem_220203_TriggerOperation_011	attempting to receive a type missing from the port list	Clause 22.2.3	m	y
12	NegSem_220203_TriggerOperation_012	value redirect assignment in receive any message statement	Clause 22.2.3	m	y
13	NegSem_220203_TriggerOperation_013	trying to store address with trigger operation on connected port	Clause 22.2.3	m	n
14	NegSem_220203_TriggerOperation_014	type mismatch in sender redirect assignment	Clause 22.2.3	m	y
15	NegSem_220203_TriggerOperation_015	null component reference in from clause of trigger operation	Clause 22.2.3	m	y
16	NegSem_220203_TriggerOperation_016	null address reference in from clause of receive operation	Clause 22.2.3	m	n
17	NegSem_220203_TriggerOperation_017	index redirection in standard port.trigger	Clause 22.2.3	m	y
18	NegSem_220203_TriggerOperation_018	index redirection in any port.receive	Clause 22.2.3	m	n
19	NegSem_220203_TriggerOperation_019	insufficient value range of variable in index redirection	Clause 22.2.3	m	y
20	NegSem_220203_TriggerOperation_020	insufficient array dimension of variable in index redirection	Clause 22.2.3	m	y
21	NegSem_220203_TriggerOperation_021	insufficient element value range of variable in index redirection	Clause 22.2.3	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
22	NegSem_220203_TriggerOperation_022	incompatible from and sender clause	Clause 22.2.3	m	y
23	NegSem_220203_TriggerOperation_023	incompatible <b>decmatch</b> and <b>@decoded</b> value redirect	Clause 22.2.3	m	n
24	Sem_220203_TriggerOperation_001	The IUT correctly handles message <b>trigger</b> operations	Clause 22.2.3	m	y
25	Sem_220203_TriggerOperation_002	The IUT correctly handles message <b>trigger</b> operations	Clause 22.2.3	m	y
26	Sem_220203_TriggerOperation_003	The IUT correctly handles message <b>trigger</b> operations	Clause 22.2.3	m	y
27	Sem_220203_TriggerOperation_004	The IUT correctly handles message <b>trigger</b> operations	Clause 22.2.3	m	n
28	Sem_220203_TriggerOperation_005	The IUT correctly handles message <b>trigger</b> operations	Clause 22.2.3	m	n
29	Sem_220203_TriggerOperation_006	trigger with a <b>from</b> clause (single item)	Clause 22.2.3	m	y
30	Sem_220203_TriggerOperation_007	trigger with a <b>from</b> clause (multiple items)	Clause 22.2.3	m	y
31	Sem_220203_TriggerOperation_008	trigger with a <b>from</b> clause (any component)	Clause 22.2.3	m	n
32	Sem_220203_TriggerOperation_009	redirect assignment of message fields	Clause 22.2.3	m	y
33	Sem_220203_TriggerOperation_010	redirect assignment of message fields	Clause 22.2.3	m	y
34	Sem_220203_TriggerOperation_011	<b>@decoded</b> redirect assignment of a bitstring field	Clause 22.2.3	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
35	Sem_220203_T riggerOperatio n_012	@decoded redirect assignment of a hexstring field	Clause 22.2.3	m	y
36	Sem_220203_T riggerOperatio n_013	@decoded redirect assignment of an octetstring field	Clause 22.2.3	m	y
37	Sem_220203_T riggerOperatio n_014	@decoded redirect assignment of a charstring field	Clause 22.2.3	m	y
38	Sem_220203_T riggerOperatio n_015	@decoded redirect assignment of a universal charstring field	Clause 22.2.3	m	y
39	Sem_220203_T riggerOperatio n_016	@decoded redirect assignment with <b>encoding</b> parameter	Clause 22.2.3	m	n
40	Sem_220203_T riggerOperatio n_017	redirect assignment storing a component	Clause 22.2.3	m	y
41	Sem_220203_T riggerOperatio n_018	redirect assignment storing an address	Clause 22.2.3	m	n
42	Sem_220203_T riggerOperatio n_019	any from <b>port.trigger</b> statement	Clause 22.2.3	m	y
43	Sem_220203_T riggerOperatio n_020	single dimensional index redirect in any from <b>port.trigger</b> statement	Clause 22.2.3	m	y
44	Sem_220203_T riggerOperatio n_021	multidimensional index redirect in any from <b>port.trigger</b> statement	Clause 22.2.3	m	y
45	Sem_220203_T riggerOperatio n_022	standalone trigger as a shorthand for <b>alt</b> statement	Clause 22.2.3	m	y
46	Sem_220203_T riggerOperatio n_023	lazy variable in value redirect	Clause 22.2.3	m	y
47	Sem_220203_T riggerOperatio n_024	lazy variable in sender redirect	Clause 22.2.3	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
48	Sem_220203_T riggerOperatio n_025	lazy variable in index redirect	Clause 22.2.3	m	y
49	Sem_220203_T riggerOperatio n_026	fuzzy variable in value redirect	Clause 22.2.3	m	y
50	Sem_220203_T riggerOperatio n_027	fuzzy variable in sender redirect	Clause 22.2.3	m	n
51	Sem_220203_T riggerOperatio n_028	fuzzy variable in @index redirect	Clause 22.2.3	m	y

## 5.137. The **call** operation

Table 136. The **call** operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_2203 01_CallOperati on_001	The IUT correctly handles procedure <b>call</b> operations	Clause 22.3.1	m	y
2	NegSem_2203 01_CallOperati on_002	The IUT correctly procedure calls	Clause 22.3.1	m	y
3	NegSem_2203 01_CallOperati on_003	<b>null</b> component in the <b>to</b> clause of the <b>call</b> operation	Clause 22.3.1	m	y
4	NegSem_2203 01_CallOperati on_004	<b>null</b> component in the multicast list of the <b>to</b> clause of the <b>call</b> operation	Clause 22.3.1	m	y
5	NegSem_2203 01_CallOperati on_005	incompatible template in the <b>to</b> clause of the <b>call</b> operation	Clause 22.3.1	m	y
6	NegSem_2203 01_CallOperati on_006	verify that non-blocking calls cannot have a response and exception handling part	Clause 22.3.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
7	NegSem_220301_CallOperation_007	verify that signature that are not listed in the port <b>inout</b> and out list cannot be used in <b>call</b> operations	Clause 22.3.1	m	y
8	NegSem_220301_CallOperation_008	verify that in parameters of a signature used in a <b>call</b> operation cannot contain matching symbols	Clause 22.3.1	m	y
9	NegSem_220301_CallOperation_009	verify that in parameters of a signature used in a <b>call</b> operation cannot be omitted	Clause 22.3.1	m	y
10	NegSem_220301_CallOperation_010	verify that <b>inout</b> parameters of a signature used in a <b>call</b> operation cannot contain matching symbols	Clause 22.3.1	m	y
11	NegSem_220301_CallOperation_011	verify that <b>inout</b> parameters of a signature used in a <b>call</b> operation cannot be omitted	Clause 22.3.1	m	y
12	NegSem_220301_CallOperation_012	missing <b>to</b> clause in case of one-to-many connections	Clause 22.3.1	m	y
13	NegSem_220301_CallOperation_013	verify that type mismatch error is issued for incorrect <b>call</b> timer values	Clause 22.3.1	m	y
14	NegSem_220301_CallOperation_014	verify that <b>getreply</b> signature mismatch in the response and exception handling causes an error	Clause 22.3.1	m	y
15	NegSem_220301_CallOperation_015	verify that exception signature mismatch in the response and exception handling causes an error	Clause 22.3.1	m	y
16	NegSem_220301_CallOperation_016	verify that forbidden calls cannot appear in response and exception handling part guards	Clause 22.3.1	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
17	NegSem_220301_CallOperation_017	verify that forbidden functions cannot appear in response and exception handling part guards	Clause 22.3.1	m	n
18	NegSem_220301_CallOperation_018	verify that non-blocking procedure calls cannot contain timeout values	Clause 22.3.1	m	y
19	NegSem_220301_CallOperation_019	verify that non-blocking procedure calls cannot contain <code>nowait</code> parameter	Clause 22.3.1	m	y
20	NegSem_220301_CallOperation_020	verify that calls cannot be used on disconnected ports	Clause 22.3.1	m	y
21	NegSyn_220301_CallOperation_001	verify that the response and exception handling part cannot contain an <code>else</code> clause	Clause 22.3.1	m	y
22	NegSyn_220301_CallOperation_002	verify that the response and exception handling part cannot contain an <code>altstep</code>	Clause 22.3.1	m	y
23	Sem_220301_CallOperation_001	The IUT correctly handles procedure <code>call</code> operations	Clause 22.3.1	m	y
24	Sem_220301_CallOperation_002	The IUT correctly handles procedure <code>call</code> operations	Clause 22.3.1	m	y
25	Sem_220301_CallOperation_003	The IUT correctly handles non-blocking procedure call	Clause 22.3.1	m	y
26	Sem_220301_CallOperation_004	The IUT correctly handles non-blocking procedure call	Clause 22.3.1	m	y
27	Sem_220301_CallOperation_005	The IUT correctly handles multiple client calls to the same server	Clause 22.3.1	m	n
28	Sem_220301_CallOperation_006	The IUT correctly handles broadcast/multicast procedure call	Clause 22.3.1	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
29	Sem_220301_C allOperation_0 07	The IUT correctly handles broadcast/multicast procedure call	Clause 22.3.1	m	n
30	Sem_220301_C allOperation_0 08	The IUT correctly handles blocking procedure call	Clause 22.3.1	m	y
31	Sem_220301_C allOperation_0 09	Verify that defaults are not executed in response and exception handling part of a <b>call</b> operation	Clause 22.3.1	m	y
32	Sem_220301_C allOperation_0 10	Blocking call with no timeout	Clause 22.3.1	m	y
33	Sem_220301_C allOperation_0 11	Blocking broadcast call with response and exception handling part and subsequent <b>alt</b>	Clause 22.3.1	m	n
34	Sem_220301_C allOperation_0 12	Blocking broadcast call with response and exception handling part handling all replies	Clause 22.3.1	m	n
35	Sem_220301_C allOperation_0 13	Blocking multicast call with response and exception handling part and subsequent <b>alt</b>	Clause 22.3.1	m	n
36	Sem_220301_C allOperation_0 14	Blocking multicast call with response and exception handling part handling all replies	Clause 22.3.1	m	n
37	Sem_220301_C allOperation_0 15	Non-blocking broadcast call	Clause 22.3.1	m	n
38	Sem_220301_C allOperation_0 16	Non-blocking multicast call	Clause 22.3.1	m	n
39	Sem_220301_C allOperation_0 17	Non-blocking unicast call	Clause 22.3.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
40	Sem_220301_C allOperation_018	Verify that <b>out</b> parameters of a signature used in a <b>call</b> operation can be omitted	Clause 22.3.1	m	y
41	Sem_220301_C allOperation_019	Verify that <b>out</b> parameters of a signature used in a <b>call</b> operation can contain matching symbols	Clause 22.3.1	m	y
42	Sem_220301_C allOperation_020	Verify that replies that are not related to the actual call are ignored in unqualified <b>getreply</b> statements	Clause 22.3.1	m	n
43	Sem_220301_C allOperation_021	Verify that exceptions that are not related to the actual call are ignored in unqualified <b>catch</b> statements	Clause 22.3.1	m	n

## 5.138. The **getcall** operation

Table 137. The **getcall** operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_220302_GetcallOperation_001	<b>Getcall</b> operations are only used on procedure based ports	Clause 22.3.2	m	y
2	NegSem_220302_GetcallOperation_002	<b>Getcall</b> operation does not allow value assignment	Clause 22.3.2	m	y
3	NegSem_220302_GetcallOperation_003	<b>Getcall</b> for any call does not allow param assignment	Clause 22.3.2	m	y
4	NegSem_220302_GetcallOperation_004	Verify that error occurs when any from <b>getcall</b> is applied to single port	Clause 22.3.2	m	y
5	NegSem_220302_GetcallOperation_005	Verify that error occurs when any from <b>getcall</b> is applied to 1D array and index target is array	Clause 22.3.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
6	NegSem_2203 02_GetcallOperation_006	Verify that error occurs when any from <b>getcall</b> is applied to 1D array and index target has wrong type	Clause 22.3.2	m	y
7	NegSem_2203 02_GetcallOperation_007	Verify that any from <b>getcall</b> index redirection for multi-D arrays requires arrays of correct size	Clause 22.3.2	m	y
8	NegSem_2203 02_GetcallOperation_008	Verify that any from <b>getcall</b> index redirection for multi-D arrays requires arrays	Clause 22.3.2	m	y
9	NegSem_2203 02_GetcallOperation_009	<b>null</b> component in the <b>from</b> clause of the <b>getcall</b> operation	Clause 22.3.2	m	y
10	NegSem_2203 02_GetcallOperation_010	<b>null</b> component in the multicast list of the <b>from</b> clause of the <b>getcall</b> operation	Clause 22.3.2	m	n
11	NegSem_2203 02_GetcallOperation_011	applying <b>@decoded</b> to a forbidden field	Clause 22.3.2	m	y
12	NegSem_2203 02_GetcallOperation_012	decoding error in <b>@decoded</b> redirect assignment	Clause 22.3.2	m	y
13	NegSem_2203 02_GetcallOperation_013	invalid format value in <b>@decoded</b> redirect assignment	Clause 22.3.2	m	y
14	NegSem_2203 02_GetcallOperation_014	value of wrong type in <b>@decoded</b> redirect assignment	Clause 22.3.2	m	y
15	NegSem_2203 02_GetcallOperation_015	<b>encoding</b> parameter of <b>@decoded</b> redirect assignment applied to incorrect type	Clause 22.3.2	m	y
16	NegSem_2203 02_GetcallOperation_016	incompatible from and <b>sender</b> clause in <b>getcall</b> operation	Clause 22.3.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
17	NegSem_220302_GetcallOperation_017	incompatible <b>decmatch</b> and <b>@decoded</b> value redirect	Clause 22.3.2	m	n
18	NegSem_220302_GetcallOperation_018	incompatible template in the <b>from</b> clause of the <b>getcall</b> operation	Clause 22.3.2	m	n
19	NegSem_220302_GetcallOperation_019	trying to store an incompatible component value in the <b>sender</b> clause of a <b>getcall</b> operation	Clause 22.3.2	m	n
20	NegSyn_220302_GetcallOperation_001	Verify that error occurs when using index redirection in <b>port.getcall</b> operation	Clause 22.3.2	m	y
21	NegSyn_220302_GetcallOperation_002	Verify that error occurs when using index redirection in any <b>port.getcall</b> operation	Clause 22.3.2	m	n
22	Sem_220302_GetcallOperation_001	<b>Getcall</b> operations remove only matching procedure from the queue	Clause 22.3.2	m	y
23	Sem_220302_GetcallOperation_002	<b>Getcall</b> operations remove the matching procedure from the queue	Clause 22.3.2	m	y
24	Sem_220302_GetcallOperation_003	The <b>getcall</b> operation can be correctly restricted to a certain client	Clause 22.3.2	m	y
25	Sem_220302_GetcallOperation_004	The <b>getcall</b> operation can be correctly restricted to a certain client	Clause 22.3.2	m	y
26	Sem_220302_GetcallOperation_005	<b>Getcall</b> operations work with any port attribute	Clause 22.3.2	m	n
27	Sem_220302_GetcallOperation_006	Verify that any from <b>getcall</b> is not triggered if there hasn't been any call	Clause 22.3.2	m	y
28	Sem_220302_GetcallOperation_007	Verify that any from <b>getcall</b> matches if at least one port contains enqueued call	Clause 22.3.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
29	Sem_220302_G etcallOperatio n_008	Verify that any from <b>getcall</b> doesn't assign index when there's no suitable match	Clause 22.3.2	m	y
30	Sem_220302_G etcallOperatio n_009	Verify that any from <b>getcall</b> doesn't change index variable when no there's no suitable match	Clause 22.3.2	m	y
31	Sem_220302_G etcallOperatio n_010	Verify that any from done assigns index	Clause 22.3.2	m	y
32	Sem_220302_G etcallOperatio n_011	Verify that any from <b>getcall</b> index redirection works for multidimensional arrays	Clause 22.3.2	m	y
33	Sem_220302_G etcallOperatio n_012	Verify any from <b>getcall</b> index redirection to lazy variable	Clause 22.3.2	m	y
34	Sem_220302_G etcallOperatio n_013	Verify any from <b>getcall</b> index redirection to fuzzy variable	Clause 22.3.2	m	y
35	Sem_220302_G etcallOperatio n_014	<b>@decoded</b> redirect assignment of a bitstring field	Clause 22.3.2	m	y
36	Sem_220302_G etcallOperatio n_015	<b>@decoded</b> redirect assignment of a hexstring field	Clause 22.3.2	m	y
37	Sem_220302_G etcallOperatio n_016	<b>@decoded</b> redirect assignment of an octetstring field	Clause 22.3.2	m	y
38	Sem_220302_G etcallOperatio n_017	<b>@decoded</b> redirect assignment of a charstring field	Clause 22.3.2	m	y
39	Sem_220302_G etcallOperatio n_018	<b>@decoded</b> redirect assignment of a universal charstring field	Clause 22.3.2	m	y
40	Sem_220302_G etcallOperatio n_019	<b>@decoded</b> redirect assignment with <b>encoding</b> parameter	Clause 22.3.2	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
41	Sem_220302_G etcallOperatio n_020	<b>getcall</b> with a <b>from</b> clause (single item)	Clause 22.3.2	m	y
42	Sem_220302_G etcallOperatio n_021	<b>getcall</b> with a <b>from</b> clause (multiple items)	Clause 22.3.2	m	y
43	Sem_220302_G etcallOperatio n_022	<b>getcall</b> with a <b>from</b> clause (any component)	Clause 22.3.2	m	n

## 5.139. The **reply** operation

Table 138. The **reply** operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_2203 03_ReplyOper ation_001	<b>Reply</b> operations are only used on procedure based ports	Clause 22.3.3	m	y
2	NegSem_2203 03_ReplyOper ation_002	<b>null</b> component in the <b>to</b> clause of the <b>reply</b> operation	Clause 22.3.3	m	y
3	NegSem_2203 03_ReplyOper ation_003	<b>null</b> component in the multicast list of the <b>to</b> clause of the <b>reply</b> operation	Clause 22.3.3	m	n
4	NegSem_2203 03_ReplyOper ation_004	verify that <b>reply</b> operation cannot be used on a message port	Clause 22.3.3	m	y
5	NegSem_2203 03_ReplyOper ation_005	verify that signature not listed in the port definition cannot be used in the <b>reply</b> operation	Clause 22.3.3	m	y
6	NegSem_2203 03_ReplyOper ation_006	verify that matching symbols cannot be used in <b>out</b> signature parameters in <b>reply</b> operations	Clause 22.3.3	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
7	NegSem_220303_ReplyOperation_007	verify that matching symbols cannot be used in <b>inout</b> signature parameters in <b>reply</b> operations	Clause 22.3.3	m	y
8	NegSem_220303_ReplyOperation_008	verify that error is issued for a missing <b>to</b> clause in a <b>reply</b> operation in case of one-to-many connections	Clause 22.3.3	m	y
9	NegSem_220303_ReplyOperation_009	verify that values that are not addresses or components cannot be used in the <b>to</b> clause of the <b>reply</b> operation	Clause 22.3.3	m	y
10	NegSem_220303_ReplyOperation_010	verify that <b>reply</b> operation on a disconnected port causes an error	Clause 22.3.3	m	y
11	Sem_220303_ReplyOperation_001	The IUT correctly handles reply to multiple clients on the same server	Clause 22.3.3	m	n
12	Sem_220303_ReplyOperation_002	The IUT correctly handles reply to multiple clients on the same server	Clause 22.3.3	m	n
13	Sem_220303_ReplyOperation_003	verify that functionality of a simple <b>reply</b> operation (implicit unicast, no return value)	Clause 22.3.3	m	y
14	Sem_220303_ReplyOperation_004	verify that functionality of a simple <b>reply</b> operation (explicit unicast, return value)	Clause 22.3.3	m	y
15	Sem_220303_ReplyOperation_005	verify that in signature parameters of <b>reply</b> operations can contain matching symbols	Clause 22.3.3	m	y

## 5.140. The **getreply** operation

Table 139. The **getreply** operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_220304_getreply_operation_001	Verify that error occurs when any from <b>getreply</b> is applied to single port	Clause 22.3.4	m	y
2	NegSem_220304_getreply_operation_002	Verify that error occurs when any from <b>getreply</b> is applied to 1D array and index target is array	Clause 22.3.4	m	y
3	NegSem_220304_getreply_operation_003	Verify that error occurs when any from <b>getreply</b> is applied to 1D array and index target has wrong type	Clause 22.3.4	m	y
4	NegSem_220304_getreply_operation_004	Verify that any from <b>getreply</b> index redirection for multi-D arrays requires arrays of correct size	Clause 22.3.4	m	y
5	NegSem_220304_getreply_operation_005	Verify that any from <b>getreply</b> index redirection for multi-D arrays requires arrays	Clause 22.3.4	m	y
6	NegSem_220304_getreply_operation_006	<b>null</b> component in the <b>from</b> clause of the <b>getreply</b> operation	Clause 22.3.4	m	y
7	NegSem_220304_getreply_operation_007	<b>null</b> component in the multicast list of the <b>from</b> clause of the <b>getreply</b> operation	Clause 22.3.4	m	y
8	NegSem_220304_getreply_operation_008	applying <b>@decoded</b> to a forbidden parameter field	Clause 22.3.4	m	y
9	NegSem_220304_getreply_operation_009	decoding error in <b>@decoded</b> redirect parameter assignment	Clause 22.3.4	m	y
10	NegSem_220304_getreply_operation_010	invalid format value in <b>@decoded</b> redirect parameter assignment	Clause 22.3.4	m	y
11	NegSem_220304_getreply_operation_011	value of wrong type in <b>@decoded</b> redirect parameter assignment	Clause 22.3.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
12	NegSem_220304_getreply_operation_012	encoding parameter of @decoded redirect parameter assignment applied to incorrect type	Clause 22.3.4	m	y
13	NegSem_220304_getreply_operation_013	incompatible from and sender clause in getreply operation	Clause 22.3.4	m	y
14	NegSem_220304_getreply_operation_014	incompatible decmatch and @decoded parameter redirect	Clause 22.3.4	m	n
15	NegSem_220304_getreply_operation_015	applying @decoded to a forbidden parameter field	Clause 22.3.4	m	y
16	NegSem_220304_getreply_operation_016	decoding error in @decoded redirect value assignment	Clause 22.3.4	m	y
17	NegSem_220304_getreply_operation_017	invalid format value in @decoded redirect value assignment	Clause 22.3.4	m	y
18	NegSem_220304_getreply_operation_018	value of wrong type in @decoded redirect value assignment	Clause 22.3.4	m	y
19	NegSem_220304_getreply_operation_019	encoding parameter of @decoded redirect value assignment applied to incorrect type	Clause 22.3.4	m	y
20	NegSem_220304_getreply_operation_020	incompatible decmatch and @decoded value redirect	Clause 22.3.4	m	n
21	NegSem_220304_getreply_operation_021	incompatible template in the from clause of the getreply operation	Clause 22.3.4	m	y
22	NegSem_220304_getreply_operation_022	trying to store an incompatible component value in the sender clause of a getreply operation	Clause 22.3.4	m	n
23	NegSyn_220304_getreply_operation_001	Verify that error occurs when using index redirection in port.getreply operation	Clause 22.3.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
24	NegSyn_220304_getreply_operation_002	Verify that error occurs when using index redirection in any <b>port.getreply</b> operation	Clause 22.3.4	m	n
25	Sem_220304_getreply_operation_001	Verify that any from <b>getreply</b> is not triggered if there hasn't been any reply	Clause 22.3.4	m	y
26	Sem_220304_getreply_operation_002	Verify that any from <b>getreply</b> matches if at least one port contains enqueued reply	Clause 22.3.4	m	y
27	Sem_220304_getreply_operation_003	Verify that any from <b>getreply</b> doesn't assign index when there's no suitable match	Clause 22.3.4	m	y
28	Sem_220304_getreply_operation_004	Verify that any from <b>getreply</b> doesn't change index variable when no there's no suitable match	Clause 22.3.4	m	y
29	Sem_220304_getreply_operation_005	Verify that any from done assigns index	Clause 22.3.4	m	y
30	Sem_220304_getreply_operation_006	Verify that any from <b>getreply</b> index redirection works for multidimensional arrays	Clause 22.3.4	m	y
31	Sem_220304_getreply_operation_007	Verify any from <b>getreply</b> index redirection to lazy variable	Clause 22.3.4	m	y
32	Sem_220304_getreply_operation_008	Verify any from <b>getreply</b> index redirection to fuzzy variable	Clause 22.3.4	m	y
33	Sem_220304_getreply_operation_009	<b>@decoded</b> redirect parameter assignment of a bitstring field	Clause 22.3.4	m	y
34	Sem_220304_getreply_operation_010	<b>@decoded</b> redirect parameter assignment of a hexstring field	Clause 22.3.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
35	Sem_220304_getreply_operation_011	@decoded redirect parameter assignment of an octetstring field	Clause 22.3.4	m	y
36	Sem_220304_getreply_operation_012	@decoded redirect parameter assignment of a charstring field	Clause 22.3.4	m	y
37	Sem_220304_getreply_operation_013	@decoded redirect parameter assignment of a universal charstring field	Clause 22.3.4	m	y
38	Sem_220304_getreply_operation_014	@decoded redirect parameter assignment with encoding parameter	Clause 22.3.4	m	n
39	Sem_220304_getreply_operation_015	@decoded redirect value assignment of a bitstring field	Clause 22.3.4	m	y
40	Sem_220304_getreply_operation_016	@decoded redirect value assignment of a hexstring field	Clause 22.3.4	m	y
41	Sem_220304_getreply_operation_017	@decoded redirect value assignment of an octetstring field	Clause 22.3.4	m	y
42	Sem_220304_getreply_operation_018	@decoded redirect value assignment of a charstring field	Clause 22.3.4	m	y
43	Sem_220304_getreply_operation_019	@decoded redirect value assignment of a universal charstring field	Clause 22.3.4	m	y
44	Sem_220304_getreply_operation_020	@decoded redirect value assignment with encoding parameter	Clause 22.3.4	m	n
45	Sem_220304_getreply_operation_021	getreply with a from clause (single item)	Clause 22.3.4	m	y
46	Sem_220304_getreply_operation_022	getreply with a from clause (multiple items)	Clause 22.3.4	m	y
47	Sem_220304_getreply_operation_023	getreply with a from clause (any component)	Clause 22.3.4	m	n

## 5.141. The **raise** operation

Table 140. The **raise** operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_220305_raise_operation_001	raised exception type not in the list of available exceptions	Clause 22.3.5	m	y
2	NegSem_220305_raise_operation_002	exception raised for a signature with no exception list	Clause 22.3.5	m	y
3	NegSem_220305_raise_operation_003	raised exception type is ambiguous	Clause 22.3.5	m	y
4	NegSem_220305_raise_operation_004	missing <b>to</b> clause in case of 1 to n connection	Clause 22.3.5	m	y
5	NegSem_220305_raise_operation_005	exception on a message port	Clause 22.3.5	m	y
6	NegSem_220305_raise_operation_006	exception procedure signature not in the port list	Clause 22.3.5	m	y
7	NegSem_220305_raise_operation_007	value of incorrect type in the <b>to</b> clause of the <b>raise</b> operation	Clause 22.3.5	m	y
8	NegSem_220305_raise_operation_008	<b>null</b> in the <b>to</b> clause of the <b>raise</b> operation	Clause 22.3.5	m	y
9	NegSem_220305_raise_operation_009	<b>raise</b> operation on disconnected and unmapped ports	Clause 22.3.5	m	y
10	NegSem_220305_raise_operation_010	exception template not conforming to template(value) restriction	Clause 22.3.5	m	y
11	Sem_220305_raise_operation_001	simple <b>raise</b> operation	Clause 22.3.5	m	y
12	Sem_220305_raise_operation_002	unicast <b>raise</b> operation	Clause 22.3.5	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
13	Sem_220305_raise_operation_003	broadcast <b>raise</b> operation	Clause 22.3.5	m	n
14	Sem_220305_raise_operation_004	multicast <b>raise</b> operation	Clause 22.3.5	m	n

## 5.142. The **catch** operation

Table 141. The **catch** operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_220306_catch_operation_001	Verify that error occurs when any from catch is applied to single port	Clause 22.3.6	m	y
2	NegSem_220306_catch_operation_002	Verify that error occurs when any from catch is applied to 1D array and index target is array	Clause 22.3.6	m	y
3	NegSem_220306_catch_operation_003	Verify that error occurs when any from catch is applied to 1D array and index target has wrong type	Clause 22.3.6	m	y
4	NegSem_220306_catch_operation_004	Verify that any from catch index redirection for multi-D arrays requires arrays of correct size	Clause 22.3.6	m	y
5	NegSem_220306_catch_operation_005	Verify that any from catch index redirection for multi-D arrays requires arrays	Clause 22.3.6	m	y
6	NegSem_220306_catch_operation_006	<b>null</b> component in the <b>from</b> clause of the <b>catch</b> operation	Clause 22.3.6	m	y
7	NegSem_220306_catch_operation_007	<b>null</b> component in the multicast list of the <b>from</b> clause of the <b>catch</b> operation	Clause 22.3.6	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
8	NegSem_220306_catch_operation_008	applying @decoded to a forbidden exception field	Clause 22.3.6	m	y
9	NegSem_220306_catch_operation_009	decoding error in @decoded redirect value assignment	Clause 22.3.6	m	y
10	NegSem_220306_catch_operation_010	invalid format value in @decoded redirect value assignment	Clause 22.3.6	m	y
11	NegSem_220306_catch_operation_011	value of wrong type in @decoded redirect value assignment	Clause 22.3.6	m	y
12	NegSem_220306_catch_operation_012	encoding parameter of @decoded redirect value assignment applied to incorrect type	Clause 22.3.6	m	y
13	NegSem_220306_catch_operation_013	incompatible from and sender clause in catch operation	Clause 22.3.6	m	y
14	NegSem_220306_catch_operation_014	incompatible decmatch and @decoded value redirect	Clause 22.3.6	m	n
15	NegSem_220306_catch_operation_015	incompatible template in the from clause of the catch operation	Clause 22.3.6	m	y
16	NegSem_220306_catch_operation_016	trying to store an incompatible component value in the sender clause of a catch operation	Clause 22.3.6	m	n
17	NegSyn_220306_catch_operation_001	Verify that error occurs when using index redirection in port.catch operation	Clause 22.3.6	m	y
18	NegSyn_220306_catch_operation_002	Verify that error occurs when using index redirection in any port.catch operation	Clause 22.3.6	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
19	NegSyn_220306_catch_operation_003	Verify that error occurs when any from catch is applied to 1D array and index target has wrong type	Clause 22.3.6	m	n
20	Sem_220306_catch_operation_001	Verify that any from catch is not triggered if there hasn't been any exception	Clause 22.3.6	m	y
21	Sem_220306_catch_operation_002	Verify that any from catch matches if at least one port contains enqueued reply	Clause 22.3.6	m	y
22	Sem_220306_catch_operation_003	Verify that any from catch doesn't assign index when there's no suitable match	Clause 22.3.6	m	y
23	Sem_220306_catch_operation_004	Verify that any from catch doesn't change index variable when no there's no suitable match	Clause 22.3.6	m	y
24	Sem_220306_catch_operation_005	Verify that any from done assigns index	Clause 22.3.6	m	y
25	Sem_220306_catch_operation_006	Verify that any from catch index redirection works for multidimensional arrays	Clause 22.3.6	m	y
26	Sem_220306_catch_operation_007	Verify any from catch index redirection to lazy variable	Clause 22.3.6	m	y
27	Sem_220306_catch_operation_008	Verify any from catch index redirection to fuzzy variable	Clause 22.3.6	m	y
28	Sem_220306_catch_operation_009	@decoded redirect value assignment of a bitstring field	Clause 22.3.6	m	y
29	Sem_220306_catch_operation_010	@decoded redirect value assignment of a hexstring field	Clause 22.3.6	m	y
30	Sem_220306_catch_operation_011	@decoded redirect value assignment of an octetstring field	Clause 22.3.6	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
31	Sem_220306_catch_operation_012	@decoded redirect value assignment of a charstring field	Clause 22.3.6	m	y
32	Sem_220306_catch_operation_013	@decoded redirect value assignment of a universal charstring field	Clause 22.3.6	m	y
33	Sem_220306_catch_operation_014	@decoded redirect value assignment with encoding parameter	Clause 22.3.6	m	n
34	Sem_220306_catch_operation_015	catch with a <b>from</b> clause (single item)	Clause 22.3.6	m	y
35	Sem_220306_catch_operation_016	catch with a <b>from</b> clause (multiple items)	Clause 22.3.6	m	y
36	Sem_220306_catch_operation_017	catch with a <b>from</b> clause (any component)	Clause 22.3.6	m	n

## 5.143. The **check** operation

Table 142. The **check** operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_2204_the_check_operation_001	<b>null</b> component reference in <b>from</b> clause of <b>check</b> operation	Clause 22.4	m	y
2	NegSem_2204_the_check_operation_002	<b>null</b> address reference in <b>from</b> clause of <b>check</b> operation	Clause 22.4	m	n
3	NegSem_2204_the_check_operation_003	incompatible <b>from</b> and <b>sender</b> clause	Clause 22.4	m	n
4	NegSem_2204_the_check_operation_004	incompatible value in the <b>from</b> clause	Clause 22.4	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
5	NegSem_2204_the_check_operation_005	verify that a runtime error is generated if the real sender is incompatible with the variable in sender redirect assignment	Clause 22.4	m	n
6	Sem_2204_the_check_operation_001	Verify that <code>port.check(receive)</code> works correctly inside <code>alt</code>	Clause 22.4	m	y
7	Sem_2204_the_check_operation_002	Verify that <code>port.check(receive)</code> with assignment works correctly inside <code>alt</code>	Clause 22.4	m	n
8	Sem_2204_the_check_operation_003	Verify that <code>port.check(receive)</code> works correctly as standalone statement	Clause 22.4	m	y
9	Sem_2204_the_check_operation_004	Verify that <code>port.check(receive)</code> with assignment works correctly as standalone statement	Clause 22.4	m	n
10	Sem_2204_the_check_operation_005	Verify that any <code>port.check(receive)</code> works correctly inside <code>alt</code>	Clause 22.4	m	y
11	Sem_2204_the_check_operation_006	Verify that any <code>port.check(receive)</code> with assignment works correctly inside <code>alt</code>	Clause 22.4	m	n
12	Sem_2204_the_check_operation_007	Verify that any <code>port.check(receive)</code> works correctly as standalone statement	Clause 22.4	m	y
13	Sem_2204_the_check_operation_008	Verify that any <code>port.check(receive)</code> with assignment works correctly as standalone statement	Clause 22.4	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
14	Sem_2204_the_check_operation_009	Verify behaviour of <code>port.check(receive)</code> in case of unsuccessful match inside <code>alt</code>	Clause 22.4	m	y
15	Sem_2204_the_check_operation_010	Verify behaviour of <code>port.check(receive)</code> with assignment in case of unsuccessful match inside <code>alt</code>	Clause 22.4	m	n
16	Sem_2204_the_check_operation_011	Verify <code>port.check(receive)</code> behaviour in case of unsuccessful match in standalone statement	Clause 22.4	m	y
17	Sem_2204_the_check_operation_012	Verify behaviour of <code>port.check(receive)</code> with assignment in case of unsuccessful match in standalone statement	Clause 22.4	m	n
18	Sem_2204_the_check_operation_013	Verify any <code>port.check(receive)</code> behaviour in case of unsuccessful match inside <code>alt</code>	Clause 22.4	m	n
19	Sem_2204_the_check_operation_014	Verify behaviour of any <code>port.check(receive)</code> with assignment in case of unsuccessful match inside <code>alt</code>	Clause 22.4	m	n
20	Sem_2204_the_check_operation_015	Verify any <code>port.check(receive)</code> behaviour in case of unsuccessful match in standalone statement	Clause 22.4	m	n
21	Sem_2204_the_check_operation_016	Verify behaviour of any <code>port.check(receive)</code> with assignment in case of unsuccessful match in standalone statement	Clause 22.4	m	n
22	Sem_2204_the_check_operation_017	Verify behaviour of <code>port.check(receive)</code> in case of successful match inside <code>alt</code>	Clause 22.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
23	Sem_2204_the_check_operation_018	Verify behaviour of <code>port.check(receive)</code> with assignment in case of successful match inside <code>alt</code>	Clause 22.4	m	n
24	Sem_2204_the_check_operation_019	Verify behaviour of <code>port.check(receive)</code> in case of successful match in standalone statement	Clause 22.4	m	y
25	Sem_2204_the_check_operation_020	Verify behaviour of <code>port.check(receive)</code> with assignment in case of successful match works correctly as standalone statement	Clause 22.4	m	y
26	Sem_2204_the_check_operation_021	Verify behaviour of any <code>port.check(receive)</code> in case of successful match inside <code>alt</code>	Clause 22.4	m	n
27	Sem_2204_the_check_operation_022	Verify behaviour of any <code>port.check(receive)</code> with assignment in case of successful match inside <code>alt</code>	Clause 22.4	m	n
28	Sem_2204_the_check_operation_023	Verify behaviour of any <code>port.check(receive)</code> in case of successful match in standalone statement	Clause 22.4	m	n
29	Sem_2204_the_check_operation_024	Verify behaviour of any <code>port.check(receive)</code> with assignment in case of successful match works correctly as standalone statement	Clause 22.4	m	n
30	Sem_2204_the_check_operation_025	Verify that <code>port.check(getcall)</code> works correctly inside <code>alt</code>	Clause 22.4	m	y
31	Sem_2204_the_check_operation_026	Verify that <code>port.check(getcall)</code> with assignment works correctly inside <code>alt</code>	Clause 22.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
32	Sem_2204_the_check_operation_027	Verify that <code>port.check(getcall)</code> works correctly as standalone statement	Clause 22.4	m	y
33	Sem_2204_the_check_operation_028	Verify that <code>port.check(getcall)</code> with assignment works correctly as standalone statement	Clause 22.4	m	y
34	Sem_2204_the_check_operation_029	Verify that any <code>port.check(getcall)</code> works correctly inside <code>alt</code>	Clause 22.4	m	y
35	Sem_2204_the_check_operation_030	Verify that any <code>port.check(getcall)</code> with assignment works correctly inside <code>alt</code>	Clause 22.4	m	y
36	Sem_2204_the_check_operation_031	Verify that any <code>port.check(getcall)</code> works correctly as standalone statement	Clause 22.4	m	y
37	Sem_2204_the_check_operation_032	Verify that any <code>port.check(getcall)</code> with assignment works correctly as standalone statement	Clause 22.4	m	y
38	Sem_2204_the_check_operation_033	Verify behaviour of <code>port.check(getcall)</code> in case of unsuccessful match inside <code>alt</code>	Clause 22.4	m	y
39	Sem_2204_the_check_operation_034	Verify behaviour of <code>port.check(getcall)</code> with assignment in case of unsuccessful match inside <code>alt</code>	Clause 22.4	m	y
40	Sem_2204_the_check_operation_035	Verify behaviour of <code>port.check(getcall)</code> in case of unsuccessful match in standalone statement	Clause 22.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
41	Sem_2204_the_check_operation_036	Verify behaviour of <code>port.check(getcall)</code> with assignment in case of unsuccessful match in standalone statement	Clause 22.4	m	y
42	Sem_2204_the_check_operation_037	Verify behaviour of any <code>port.check(getcall)</code> in case of unsuccessful match inside <code>alt</code>	Clause 22.4	m	n
43	Sem_2204_the_check_operation_038	Verify behaviour of any <code>port.check(getcall)</code> with assignment in case of unsuccessful match inside <code>alt</code>	Clause 22.4	m	n
44	Sem_2204_the_check_operation_039	Verify behaviour of any <code>port.check(getcall)</code> in case of unsuccessful match in standalone statement	Clause 22.4	m	n
45	Sem_2204_the_check_operation_040	Verify behaviour of any <code>port.check(getcall)</code> with assignment in case of unsuccessful match in standalone statement	Clause 22.4	m	n
46	Sem_2204_the_check_operation_041	Verify behaviour of <code>port.check(getcall)</code> in case of successful match inside <code>alt</code>	Clause 22.4	m	y
47	Sem_2204_the_check_operation_042	Verify behaviour of <code>port.check(getcall)</code> with assignment in case of successful match inside <code>alt</code>	Clause 22.4	m	y
48	Sem_2204_the_check_operation_043	Verify behaviour of <code>port.check(getcall)</code> in case of successful match in standalone statement	Clause 22.4	m	y
49	Sem_2204_the_check_operation_044	Verify behaviour of <code>port.check(getcall)</code> with assignment in case of successful match in standalone statement	Clause 22.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
50	Sem_2204_the_check_operation_045	Verify behaviour of any <code>port.check(getcall)</code> in case of successful match inside <code>alt</code>	Clause 22.4	m	n
51	Sem_2204_the_check_operation_046	Verify behaviour of any <code>port.check(getcall)</code> with assignment in case of successful match inside <code>alt</code>	Clause 22.4	m	n
52	Sem_2204_the_check_operation_047	Verify behaviour of any <code>port.check(getcall)</code> in case of successful match in standalone statement	Clause 22.4	m	n
53	Sem_2204_the_check_operation_048	Verify behaviour of any <code>port.check(getcall)</code> with assignment in case of successful match in standalone statement	Clause 22.4	m	n
54	Sem_2204_the_check_operation_049	Verify that <code>port.check(getreply)</code> works correctly inside <code>alt</code>	Clause 22.4	m	y
55	Sem_2204_the_check_operation_050	Verify that <code>port.check(getreply)</code> with assignment works correctly inside <code>alt</code>	Clause 22.4	m	y
56	Sem_2204_the_check_operation_051	Verify that <code>port.check(getreply)</code> works correctly as standalone statement	Clause 22.4	m	y
57	Sem_2204_the_check_operation_052	Verify that <code>port.check(getreply)</code> with assignment works correctly as standalone statement	Clause 22.4	m	y
58	Sem_2204_the_check_operation_053	Verify that any <code>port.check(getreply)</code> works correctly inside <code>alt</code>	Clause 22.4	m	y
59	Sem_2204_the_check_operation_054	Verify that any <code>port.check(getreply)</code> with assignment works correctly inside <code>alt</code>	Clause 22.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
60	Sem_2204_the_check_operation_055	Verify that any <code>port.check(getreply)</code> works correctly as standalone statement	Clause 22.4	m	y
61	Sem_2204_the_check_operation_056	Verify that any <code>port.check(getreply)</code> with assignment works correctly as standalone statement	Clause 22.4	m	y
62	Sem_2204_the_check_operation_057	Verify behaviour of <code>port.check(getreply)</code> in case of unsuccessful match inside <code>alt</code>	Clause 22.4	m	y
63	Sem_2204_the_check_operation_058	Verify behaviour of <code>port.check(getreply)</code> with assignment in case of unsuccessful match inside <code>alt</code>	Clause 22.4	m	y
64	Sem_2204_the_check_operation_059	Verify behaviour of <code>port.check(getreply)</code> in case of unsuccessful match in standalone statement	Clause 22.4	m	y
65	Sem_2204_the_check_operation_060	Verify behaviour of <code>port.check(getreply)</code> with assignment in case of unsuccessful match in standalone statement	Clause 22.4	m	y
66	Sem_2204_the_check_operation_061	Verify behaviour of any <code>port.check(getreply)</code> in case of unsuccessful match inside <code>alt</code>	Clause 22.4	m	n
67	Sem_2204_the_check_operation_062	Verify behaviour of any <code>port.check(getreply)</code> with assignment in case of unsuccessful match inside <code>alt</code>	Clause 22.4	m	n
68	Sem_2204_the_check_operation_063	Verify behaviour of any <code>port.check(getreply)</code> in case of unsuccessful match in standalone statement	Clause 22.4	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
69	Sem_2204_the_check_operation_064	Verify behaviour of any <code>port.check(getreply)</code> with assignment in case of unsuccessful match in standalone statement	Clause 22.4	m	n
70	Sem_2204_the_check_operation_065	Verify behaviour of <code>port.check(getreply)</code> in case of successful match inside <code>alt</code>	Clause 22.4	m	y
71	Sem_2204_the_check_operation_066	Verify behaviour of <code>port.check(getreply)</code> with assignment in case of successful match inside <code>alt</code>	Clause 22.4	m	y
72	Sem_2204_the_check_operation_067	Verify behaviour of <code>port.check(getreply)</code> in case of successful match in standalone statement	Clause 22.4	m	y
73	Sem_2204_the_check_operation_068	Verify behaviour of <code>port.check(getreply)</code> with assignment in case of successful match in standalone statement	Clause 22.4	m	y
74	Sem_2204_the_check_operation_069	Verify behaviour of any <code>port.check(getreply)</code> in case of successful match inside <code>alt</code>	Clause 22.4	m	n
75	Sem_2204_the_check_operation_070	Verify behaviour of any <code>port.check(getreply)</code> with assignment in case of successful match inside <code>alt</code>	Clause 22.4	m	n
76	Sem_2204_the_check_operation_071	Verify behaviour of any <code>port.check(getreply)</code> in case of successful match in standalone statement	Clause 22.4	m	n
77	Sem_2204_the_check_operation_072	Verify behaviour of any <code>port.check(getreply)</code> with assignment in case of successful match in standalone statement	Clause 22.4	m	n

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
78	Sem_2204_the_check_operation_073	Verify that <code>port.check(catch)</code> works correctly inside <code>alt</code>	Clause 22.4	m	y
79	Sem_2204_the_check_operation_074	Verify that <code>port.check(catch)</code> with assignment works correctly inside <code>alt</code>	Clause 22.4	m	y
80	Sem_2204_the_check_operation_075	Verify that <code>port.check(catch)</code> works correctly as standalone statement	Clause 22.4	m	y
81	Sem_2204_the_check_operation_076	Verify that <code>port.check(catch)</code> with assignment works correctly as standalone statement	Clause 22.4	m	y
82	Sem_2204_the_check_operation_077	Verify that any <code>port.check(catch)</code> works correctly inside <code>alt</code>	Clause 22.4	m	y
83	Sem_2204_the_check_operation_078	Verify that any <code>port.check(catch)</code> with assignment works correctly inside <code>alt</code>	Clause 22.4	m	y
84	Sem_2204_the_check_operation_079	Verify that any <code>port.check(catch)</code> works correctly as standalone statement	Clause 22.4	m	y
85	Sem_2204_the_check_operation_080	Verify that any <code>port.check(catch)</code> with assignment works correctly as standalone statement	Clause 22.4	m	y
86	Sem_2204_the_check_operation_081	Verify behaviour of <code>port.check(catch)</code> in case of unsuccessful match inside <code>alt</code>	Clause 22.4	m	y
87	Sem_2204_the_check_operation_082	Verify behaviour of <code>port.check(catch)</code> with assignment in case of unsuccessful match inside <code>alt</code>	Clause 22.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
88	Sem_2204_the_check_operation_083	Verify behaviour of <code>port.check(catch)</code> in case of unsuccessful match in standalone statement	Clause 22.4	m	y
89	Sem_2204_the_check_operation_084	Verify behaviour of <code>port.check(catch)</code> with assignment in case of unsuccessful match in standalone statement	Clause 22.4	m	y
90	Sem_2204_the_check_operation_085	Verify behaviour of any <code>port.check(catch)</code> in case of unsuccessful match inside <code>alt</code>	Clause 22.4	m	n
91	Sem_2204_the_check_operation_086	Verify behaviour of any <code>port.check(catch)</code> with assignment in case of unsuccessful match inside <code>alt</code>	Clause 22.4	m	n
92	Sem_2204_the_check_operation_087	Verify behaviour of any <code>port.check(catch)</code> in case of unsuccessful match in standalone statement	Clause 22.4	m	n
93	Sem_2204_the_check_operation_088	Verify behaviour of any <code>port.check(catch)</code> with assignment in case of unsuccessful match in standalone statement	Clause 22.4	m	n
94	Sem_2204_the_check_operation_089	Verify behaviour of <code>port.check(catch)</code> in case of successful match inside <code>alt</code>	Clause 22.4	m	y
95	Sem_2204_the_check_operation_090	Verify behaviour of <code>port.check(catch)</code> with assignment in case of successful match inside <code>alt</code>	Clause 22.4	m	y
96	Sem_2204_the_check_operation_091	Verify behaviour of <code>port.check(catch)</code> in case of successful match in standalone statement	Clause 22.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
97	Sem_2204_the_check_operation_092	Verify behaviour of <code>port.check(catch)</code> with assignment in case of successful match in standalone statement	Clause 22.4	m	y
98	Sem_2204_the_check_operation_093	Verify behaviour of any <code>port.check(catch)</code> in case of successful match inside <code>alt</code>	Clause 22.4	m	n
99	Sem_2204_the_check_operation_094	Verify behaviour of any <code>port.check(catch)</code> with assignment in case of successful match inside <code>alt</code>	Clause 22.4	m	n
100	Sem_2204_the_check_operation_095	Verify behaviour of any <code>port.check(catch)</code> in case of successful match in standalone statement	Clause 22.4	m	n
101	Sem_2204_the_check_operation_096	Verify behaviour of any <code>port.check(catch)</code> with assignment in case of successful match in standalone statement	Clause 22.4	m	n
102	Sem_2204_the_check_operation_097	Verify that <code>port.check</code> works correctly inside <code>alt</code>	Clause 22.4	m	y
103	Sem_2204_the_check_operation_098	Verify that <code>port.check</code> with assignment works correctly inside <code>alt</code>	Clause 22.4	m	y
104	Sem_2204_the_check_operation_099	Verify that <code>port.check</code> works correctly as standalone statement	Clause 22.4	m	y
105	Sem_2204_the_check_operation_100	Verify that <code>port.check</code> with assignment works correctly as standalone statement	Clause 22.4	m	y
106	Sem_2204_the_check_operation_101	Verify that any <code>port.check</code> works correctly inside <code>alt</code>	Clause 22.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
107	Sem_2204_the_check_operation_102	Verify that any <code>port.check</code> with assignment works correctly inside <code>alt</code>	Clause 22.4	m	y
108	Sem_2204_the_check_operation_103	Verify that any <code>port.check</code> works correctly as standalone statement	Clause 22.4	m	y
109	Sem_2204_the_check_operation_104	Verify that any <code>port.check(catch)</code> with assignment works correctly as standalone statement	Clause 22.4	m	y
110	Sem_2204_the_check_operation_105	Verify behaviour of <code>port.check</code> in case of unsuccessful match inside <code>alt</code>	Clause 22.4	m	n
111	Sem_2204_the_check_operation_106	Verify behaviour of <code>port.check</code> with assignment in case of unsuccessful match inside <code>alt</code>	Clause 22.4	m	y
112	Sem_2204_the_check_operation_107	Verify behaviour of <code>port.check</code> in case of unsuccessful match in standalone statement	Clause 22.4	m	y
113	Sem_2204_the_check_operation_108	Verify behaviour of <code>port.check</code> with assignment in case of unsuccessful match in standalone statement	Clause 22.4	m	y
114	Sem_2204_the_check_operation_109	Verify any <code>port.check</code> behaviour in case of unsuccessful match inside <code>alt</code>	Clause 22.4	m	n
115	Sem_2204_the_check_operation_110	Verify behaviour of any <code>port.check</code> with assignment in case of unsuccessful match inside <code>alt</code>	Clause 22.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
116	Sem_2204_the_check_operation_111	Verify behaviour of any <b>port.check</b> in case of unsuccessful match in standalone statement	Clause 22.4	m	y
117	Sem_2204_the_check_operation_112	Verify behaviour of any <b>port.check</b> with assignment in case of unsuccessful match in standalone statement	Clause 22.4	m	y
118	Sem_2204_the_check_operation_113	Verify behaviour of <b>port.check</b> in case of successful match inside <b>alt</b>	Clause 22.4	m	n
119	Sem_2204_the_check_operation_114	Verify behaviour of <b>port.check</b> with assignment in case of successful match inside <b>alt</b>	Clause 22.4	m	y
120	Sem_2204_the_check_operation_115	Verify behaviour of <b>port.check</b> in case of successful match in standalone statement	Clause 22.4	m	y
121	Sem_2204_the_check_operation_116	Verify behaviour of <b>port.check</b> with assignment in case of successful match in standalone statement	Clause 22.4	m	y
122	Sem_2204_the_check_operation_117	Verify behaviour of any <b>port.check</b> in case of successful match inside <b>alt</b>	Clause 22.4	m	y
123	Sem_2204_the_check_operation_118	Verify behaviour of any <b>port.check</b> with assignment in case of successful match inside <b>alt</b>	Clause 22.4	m	y
124	Sem_2204_the_check_operation_119	Verify behaviour of any <b>port.check</b> in case of successful match in standalone statement	Clause 22.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
125	Sem_2204_the_check_operation_120	Verify behaviour of any <code>port.check</code> with assignment in case of successful match in standalone statement	Clause 22.4	m	y

## 5.144. Timer operations

Table 143. Timer operations

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_23_toplevel_001	Ensure <code>timer</code> operations are not allowed outside of module control, test case, function, altstep	Clause 23	m	y
2	NegSem_23_toplevel_002	Ensure <code>timer</code> operations are not allowed outside of module control, test case, function, altstep	Clause 23	m	y
3	NegSyn_23_toplevel_001	Ensure <code>timer</code> operations are not allowed outside of module control, test case, function, altstep	Clause 23	m	y
4	NegSyn_23_toplevel_002	Ensure <code>timer</code> operations are not allowed outside of module control, test case, function, altstep	Clause 23	m	y
5	Syn_23_toplevel_001	Ensure timer allowed in module control, test case, function, altstep	Clause 23	m	y
6	Syn_23_toplevel_002	Ensure timer allowed in module control, test case, function, altstep	Clause 23	m	y

## 5.145. The `start` timer operation

Table 144. The `start` timer operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_2302_timer_start_001	Ensure infinity is not allowed	Clause 23.2	m	y
2	NegSem_2302_timer_start_002	Ensure not_a_number is not allowed	Clause 23.2	m	y
3	NegSem_2302_timer_start_003	Ensure negative value is not allowed	Clause 23.2	m	y
4	NegSem_2302_timer_start_004	Ensure negative infinity is not allowed	Clause 23.2	m	y
5	NegSyn_2302_timer_start_001	Ensure timer start syntax	Clause 23.2	m	y
6	NegSyn_2302_timer_start_002	Ensure timer start syntax	Clause 23.2	m	y
7	NegSyn_2302_timer_start_003	Ensure timer start syntax	Clause 23.2	m	y
8	NegSyn_2302_timer_start_004	Ensure timer start syntax	Clause 23.2	m	y
9	NegSyn_2302_timer_start_005	Ensure timer start syntax	Clause 23.2	m	y
10	NegSyn_2302_timer_start_006	Ensure timer start syntax	Clause 23.2	m	y
11	NegSyn_2302_timer_start_007	Ensure timer start syntax	Clause 23.2	m	y
12	NegSyn_2302_timer_start_008	Ensure timer start syntax	Clause 23.2	m	y
13	NegSyn_2302_timer_start_009	Ensure timer start syntax	Clause 23.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
14	NegSyn_2302_timer_start_010	Ensure <b>timer start</b> syntax	Clause 23.2	m	y
15	NegSyn_2302_timer_start_011	Ensure <b>timer start</b> syntax	Clause 23.2	m	y
16	NegSyn_2302_timer_start_012	Ensure <b>timer start</b> syntax	Clause 23.2	m	y
17	NegSyn_2302_timer_start_013	Ensure <b>timer start</b> syntax	Clause 23.2	m	y
18	Sem_2302_timer_start_001	Ensure timer runs from zero to stated value	Clause 23.2	m	y
19	Sem_2302_timer_start_002	Ensure timer can be restarted	Clause 23.2	m	y
20	Sem_2302_timer_start_003	Ensure timer default value can be modified by start value	Clause 23.2	m	y
21	Sem_2302_timer_start_004	Ensure timer with value 0.0 expires immediately	Clause 23.2	m	y

## 5.146. The **stop** timer operation

Table 145. The **stop** timer operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSyn_2303_timer_stop_001	Ensure <b>timer stop</b> syntax	Clause 23.3	m	y
2	NegSyn_2303_timer_stop_002	Ensure <b>timer stop</b> syntax	Clause 23.3	m	y
3	NegSyn_2303_timer_stop_003	Ensure all <b>timer stop</b> syntax	Clause 23.3	m	y
4	NegSyn_2303_timer_stop_004	Ensure all <b>timer stop</b> syntax	Clause 23.3	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
5	NegSyn_2303_timer_stop_005	Ensure all <b>timer stop</b> syntax	Clause 23.3	m	y
6	NegSyn_2303_timer_stop_006	Ensure all <b>timer stop</b> syntax	Clause 23.3	m	y
7	Sem_2303_timer_stop_002	Ensure timer stop sets elapsed time to zero	Clause 23.3	m	y
8	Sem_2303_timer_stop_003	Ensure timer all timer identifier	Clause 23.3	m	y
9	Sem_2303_timer_stop_004	Ensure can be stopped after timeout	Clause 23.3	m	y
10	Syn_2303_timer_stop_006	Ensure <b>timer stop</b> syntax	Clause 23.3	m	y
11	Syn_2303_timer_stop_007	Ensure all <b>timer stop</b> syntax	Clause 23.3	m	y

## 5.147. The **read** timer operation

Table 146. The **read** timer operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSyn_2304_timer_read_001	Ensure <b>timer read</b> syntax	Clause 23.4	m	y
2	NegSyn_2304_timer_read_002	Ensure <b>timer read</b> syntax	Clause 23.4	m	y
3	NegSyn_2304_timer_read_003	Ensure <b>timer read</b> syntax	Clause 23.4	m	y
4	NegSyn_2304_timer_read_004	Ensure <b>timer read</b> syntax: disallow any <b>timer.read</b>	Clause 23.4	m	y
5	NegSyn_2304_timer_read_005	Ensure <b>timer read</b> syntax	Clause 23.4	m	y
6	Sem_2304_timer_read_001	Ensure <b>timer read</b> result of inactive timer is zero	Clause 23.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
7	Sem_2304_timer_read_002	Ensure <b>timer read</b> result is non-negative float	Clause 23.4	m	y
8	Sem_2304_timer_read_003	Ensure <b>timer read</b> result is non-negative float	Clause 23.4	m	y

## 5.148. The **running** timer operation

Table 147. The **running** timer operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSyn_2305_timer_running_001	Ensure <b>timer running</b> syntax	Clause 23.5	m	y
2	NegSyn_2305_timer_running_002	Ensure <b>timer running</b> syntax	Clause 23.5	m	y
3	NegSyn_2305_timer_running_003	Ensure <b>timer running</b> syntax	Clause 23.5	m	y
4	NegSyn_2305_timer_running_004	Ensure <b>timer running</b> syntax	Clause 23.5	m	y
5	NegSyn_2305_timer_running_005	Ensure <b>timer running</b> syntax	Clause 23.5	m	y
6	NegSyn_2305_timer_running_006	Ensure <b>timer running</b> syntax: disallow all <b>timer.running</b>	Clause 23.5	m	y
7	Sem_2305_timer_running_001	Ensure timer running any timer identifier works	Clause 23.5	m	y
8	Sem_2305_timer_running_002	Ensure <b>timer running</b> operation works	Clause 23.5	m	y
9	Sem_2305_timer_running_003	Ensure <b>timer running</b> operation works	Clause 23.5	m	y
10	Sem_2305_timer_running_004	Ensure <b>timer running</b> operation works	Clause 23.5	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
11	Sem_2305_timer_running_005	Correct number of timers from a timer array is still running	Clause 23.5	m	y
12	Syn_2305_timer_running_001	Ensure <code>timer running</code> syntax	Clause 23.5	m	y

## 5.149. The `timeout` operation

Table 148. The `timeout` operation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSyn_2306_timer_timeout_001	Ensure <code>timer timeout</code> syntax	Clause 23.6	m	y
2	NegSyn_2306_timer_timeout_002	Ensure <code>timer timeout</code> can't be used in boolean expressions	Clause 23.6	m	y
3	NegSyn_2306_timer_timeout_003	Ensure <code>timer timeout</code> syntax	Clause 23.6	m	y
4	NegSyn_2306_timer_timeout_004	Ensure <code>timer timeout</code> syntax	Clause 23.6	m	y
5	NegSyn_2306_timer_timeout_005	Ensure <code>timer timeout</code> syntax	Clause 23.6	m	y
6	NegSyn_2306_timer_timeout_006	Ensure <code>timer timeout</code> syntax	Clause 23.6	m	y
7	NegSyn_2306_timer_timeout_007	Ensure <code>`timer timeout`</code> syntax	Clause 23.6	m	y
8	Sem_2306_timer_timeout_001	Ensure <code>timer timeout</code> operations: non-started timer does not timeout	Clause 23.6	m	y
9	Sem_2306_timer_timeout_002	Ensure <code>timer timeout</code> operations: timed-out timer does not timeout until restarted	Clause 23.6	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
10	Sem_2306_timer_timeout_003	Ensure <code>timer.timeout</code> happen in order from the shortest to the longest	Clause 23.6	m	y
11	Sem_2306_timer_timeout_004	Ensure any <code>timer.timeout</code> operation	Clause 23.6	m	y
12	Sem_2306_timer_timeout_005	Ensure any <code>timer.timeout</code> operation for timeouts that are not in scope	Clause 23.6	m	y
13	Sem_2306_timer_timeout_006	Ensure any <code>timer.timeout</code> operation handles timeout of any timer in the component, not only visible from a function or altstep	Clause 23.6	m	y
14	Sem_2306_timer_timeout_007	Ensure <code>timer.timeout</code> happen in order from the shortest to the longest	Clause 23.6	m	y
15	Sem_2306_timer_timeout_008	Timeout of a timer from a timer array works correctly	Clause 23.6	m	y
16	Sem_2306_timer_timeout_009	removing random timeout when using any <code>timer.timeout</code>	Clause 23.6	m	y

## 5.150. Test `verdict` operations

Table 149. Test `verdict` operations

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_24_to_plevel_001	Ensure <code>getverdict</code> is not allowed in constant initialization in control part	Clause 24	m	y
2	NegSem_24_to_plevel_002	Ensure <code>getverdict</code> is not allowed in parameter initialization in control part.	Clause 24	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
3	NegSem_24_toplevel_003	Ensure <b>getverdict</b> is not allowed in variable definition in control part.	Clause 24	m	y
4	NegSem_24_toplevel_004	Ensure <b>setverdict</b> is not allowed in part within <b>compound</b> statement.	Clause 24	m	y
5	NegSem_24_toplevel_005	Ensure <b>setverdict</b> is not allowed in control part at the top level.	Clause 24	m	y
6	Syn_24_toplevel_001	Ensure <b>setverdict</b> and <b>getverdict</b> are allowed in functions	Clause 24	m	n
7	Syn_24_toplevel_002	Ensure <b>setverdict</b> and <b>getverdict</b> are allowed in test cases	Clause 24	m	n
8	Syn_24_toplevel_003	Ensure <b>setverdict</b> and <b>getverdict</b> are allowed in altsteps	Clause 24	m	y

## 5.151. The verdict mechanism

Table 150. The verdict mechanism

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_2401_SetverdictError	<b>Setverdict</b> can't set error <b>verdict</b>	Clause 24.1	m	y
2	Sem_2401_GlobalVerdict_001	Ensure overwriting rules for global verdict: <b>pass</b> can overwrite <b>none</b> .	Clause 24.1	m	y
3	Sem_2401_GlobalVerdict_002	Ensure overwriting rules for global verdict: <b>inconc</b> can overwrite <b>none</b> .	Clause 24.1	m	y
4	Sem_2401_GlobalVerdict_003	Ensure overwriting rules for global verdict: <b>fail</b> can overwrite <b>none</b> .	Clause 24.1	m	y
5	Sem_2401_GlobalVerdict_004	Ensure overwriting rules for global verdict: <b>none</b> can't overwrite <b>pass</b> .	Clause 24.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
6	Sem_2401_GlobalVerdict_005	Ensure overwriting rules for global verdict: <b>inconc</b> can overwrite <b>pass</b> .	Clause 24.1	m	y
7	Sem_2401_GlobalVerdict_006	Ensure overwriting rules for global verdict: <b>fail</b> can overwrite <b>pass</b> .	Clause 24.1	m	y
8	Sem_2401_GlobalVerdict_007	Ensure overwriting rules for global verdict: <b>none</b> can't overwrite <b>inconc</b> .	Clause 24.1	m	y
9	Sem_2401_GlobalVerdict_008	Ensure overwriting rules for global verdict: <b>pass</b> can't overwrite <b>inconc</b> .	Clause 24.1	m	y
10	Sem_2401_GlobalVerdict_009	Ensure overwriting rules for global verdict: <b>fail</b> can overwrite <b>inconc</b> .	Clause 24.1	m	y
11	Sem_2401_GlobalVerdict_010	Ensure overwriting rules for global verdict: <b>none</b> can't overwrite <b>fail</b> .	Clause 24.1	m	y
12	Sem_2401_GlobalVerdict_011	Ensure overwriting rules for global verdict: <b>pass</b> can't overwrite <b>fail</b> .	Clause 24.1	m	y
13	Sem_2401_GlobalVerdict_012	Ensure overwriting rules for global verdict: <b>inconc</b> can't overwrite <b>fail</b> .	Clause 24.1	m	y
14	Sem_2401_InitiallyNone_001	Local verdicts initializes with <b>none</b>	Clause 24.1	m	y
15	Sem_2401_LocalVerdict_001	Ensure overwriting rules for local verdict: <b>pass</b> can overwrite <b>none</b> .	Clause 24.1	m	y
16	Sem_2401_LocalVerdict_002	Ensure overwriting rules for local verdict: <b>inconc</b> can overwrite <b>none</b> .	Clause 24.1	m	y
17	Sem_2401_LocalVerdict_003	Ensure overwriting rules for local verdict: <b>fail</b> can overwrite <b>none</b> .	Clause 24.1	m	y
18	Sem_2401_LocalVerdict_004	Ensure overwriting rules for local verdict: <b>none</b> can't overwrite <b>pass</b> .	Clause 24.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
19	Sem_2401_LocalVerdict_005	Ensure overwriting rules for local verdict: <b>inconc</b> can overwrite <b>pass</b> .	Clause 24.1	m	y
20	Sem_2401_LocalVerdict_006	Ensure overwriting rules for local verdict: <b>fail</b> can overwrite <b>pass</b> .	Clause 24.1	m	y
21	Sem_2401_LocalVerdict_007	Ensure overwriting rules for local verdict: <b>none</b> can't overwrite <b>inconc</b> .	Clause 24.1	m	y
22	Sem_2401_LocalVerdict_008	Ensure overwriting rules for local verdict: <b>pass</b> can't overwrite <b>inconc</b> .	Clause 24.1	m	y
23	Sem_2401_LocalVerdict_009	Ensure overwriting rules for local verdict: <b>fail</b> can overwrite <b>inconc</b> .	Clause 24.1	m	y
24	Sem_2401_LocalVerdict_010	Ensure overwriting rules for local verdict: <b>none</b> can't overwrite <b>fail</b> .	Clause 24.1	m	y
25	Sem_2401_LocalVerdict_011	Ensure overwriting rules for local verdict: <b>pass</b> can't overwrite <b>fail</b> .	Clause 24.1	m	y
26	Sem_2401_LocalVerdict_012	Ensure overwriting rules for local verdict: <b>inconc</b> can't overwrite <b>fail</b> .	Clause 24.1	m	y
27	Syn_2401_Five Values_001	There are five values of <b>verdicttype</b>	Clause 24.1	m	y

## 5.152. The setverdict mechanism

Table 151. Test setverdict mechanism

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_2402_setverdict_params_001	Ensure <b>setverdict</b> accepts parameters of <b>verdicttype</b> only	Clause 24.2	m	y
2	NegSem_2402_setverdict_params_002	Ensure <b>setverdict</b> accepts parameters of <b>verdicttype</b> only	Clause 24.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
3	NegSem_2402_setverdict_params_003	Ensure <b>setverdict</b> accepts values of <b>verdicttype</b> only	Clause 24.2	m	y
4	NegSem_2402_setverdict_params_004	Ensure <b>setverdict</b> accepts values only as the parameter	Clause 24.2	m	y
5	NegSem_2402_setverdict_params_005	Ensure <b>setverdict</b> accepts values only as the parameter	Clause 24.2	m	y
6	Sem_2402_setverdict_logging_001	Ensure logging constraints	Clause 24.2	m	y
7	Sem_2402_setverdict_params_001	Ensure <b>setverdict</b> accepts values only as the parameter	Clause 24.2	m	y
8	Sem_2402_setverdict_params_002	Ensure <b>setverdict</b> accepts values only as the parameter	Clause 24.2	m	y
9	Sem_2402_setverdict_params_003	Ensure logging constraints	Clause 24.2	m	n

## 5.153. The **getverdict** mechanism

Table 152. The **getverdict** mechanism

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_2403_getverdict_001	Ensure <b>getverdict</b> returns the actual verdict <b>none</b>	Clause 24.3	m	y
2	Sem_2403_getverdict_002	Ensure <b>getverdict</b> returns the actual verdict <b>inconc</b>	Clause 24.3	m	y
3	Sem_2403_getverdict_003	Ensure <b>getverdict</b> returns the actual verdict <b>pass</b>	Clause 24.3	m	y
4	Sem_2403_getverdict_004	Ensure <b>getverdict</b> returns the actual verdict <b>fail</b>	Clause 24.3	m	y
5	Sem_2403_getverdict_005	Ensure <b>getverdict none</b> for uninitialized verdict	Clause 24.3	m	y

## 5.154. Module control

Table 153. Module control

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Syn_26_ModuleControl_001	Assignments in the control part are accepted.	Clause 26	m	y
2	Syn_26_ModuleControl_002	<b>if-else</b> constructs in the control part are accepted.	Clause 26	m	y
3	Syn_26_ModuleControl_003	<b>select-case</b> constructs in the control part are accepted.	Clause 26	m	y
4	Syn_26_ModuleControl_004	<b>for loop</b> constructs in the control part are accepted.	Clause 26	m	y
5	Syn_26_ModuleControl_005	<b>while loop</b> constructs in the control part are accepted.	Clause 26	m	y
6	Syn_26_ModuleControl_006	<b>label</b> and <b>goto</b> constructs in the control part are accepted.	Clause 26	m	y
7	Syn_26_ModuleControl_007	The <b>stop</b> construct in the control part is accepted.	Clause 26	m	y
8	Syn_26_ModuleControl_008	The <b>break</b> construct in the control part is accepted.	Clause 26	m	y
9	Syn_26_ModuleControl_009	The <b>continue</b> construct in the control part is accepted.	Clause 26	m	y
10	Syn_26_ModuleControl_010	The <b>continue</b> construct in the control part is accepted.	Clause 26	m	y
11	Syn_26_ModuleControl_011	The <b>alt/timeout</b> construct in the control part is accepted.	Clause 26	m	y
12	Syn_26_ModuleControl_012	The <b>repeat</b> construct in the control part is accepted.	Clause 26	m	y
13	Syn_26_ModuleControl_013	The <b>interleave</b> construct in the control part is accepted.	Clause 26	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
14	Syn_26_ModuleControl_015	<b>start/stop/read/running</b> timer constructs in the control part are accepted.	Clause 26	m	y
15	Syn_26_ModuleControl_016	The <b>action</b> construct in the control part is accepted.	Clause 26	m	y
16	Syn_26_ModuleControl_017	The <b>execute</b> construct in the control part is accepted.	Clause 26	m	y

## 5.155. The **execute** statement

Table 154. The **execute** statement

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_2601_ExecuteStatement_001	Non-float <b>timeout</b> parameters in the <b>execute</b> statement are rejected (in this case int).	Clause 26.1	m	y
2	NegSem_2601_ExecuteStatement_002	Non-float <b>timeout</b> parameters in the <b>execute</b> statement are rejected (in this case charstring).	Clause 26.1	m	y
3	NegSem_2601_ExecuteStatement_003	Host id can be only charstring.	Clause 26.1	m	n
4	NegSem_2601_ExecuteStatement_004	Execution rejects test case execution with infinity timer guard	Clause 26.1	m	y
5	Sem_2601_ExecuteStatement_001	Parameters are passed correctly into the test case.	Clause 26.1	m	y
6	Sem_2601_ExecuteStatement_002	Multiple parameters of different types are passed correctly into the test case.	Clause 26.1	m	y
7	Sem_2601_ExecuteStatement_003	The timeout specified with the <b>execute</b> statement is respected.	Clause 26.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
8	Sem_2601_ExecuteStatement_004	The verdict <b>none</b> works correctly.	Clause 26.1	m	y
9	Sem_2601_ExecuteStatement_005	The verdict <b>pass</b> works correctly.	Clause 26.1	m	y
10	Sem_2601_ExecuteStatement_006	The verdict <b>inconc</b> works correctly.	Clause 26.1	m	y
11	Sem_2601_ExecuteStatement_007	The timeout specified with the <b>execute</b> statement is respected.	Clause 26.1	m	n
12	Sem_2601_ExecuteStatement_008	The user error sets the verdict error correctly.	Clause 26.1	m	y
13	Sem_2601_ExecuteStatement_009	Host id restriction is correctly handled.	Clause 26.1	m	n
14	Sem_2601_ExecuteStatement_010	verify that test cases can be executed from altsteps called from the control block	Clause 26.1	m	y

## 5.156. The control part

Table 155. The control part

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_2602_TheControlPart_001	<b>setverdict</b> statements are not allowed in the control part.	Clause 26.2	m	y
2	NegSem_2602_TheControlPart_002	The <b>create</b> component is not allowed in the control part.	Clause 26.2	m	y
3	NegSem_2602_TheControlPart_003	The <b>create alive</b> component is not allowed in the control part.	Clause 26.2	m	y
4	NegSem_2602_TheControlPart_004	The <b>start</b> statement is not allowed in the control part.	Clause 26.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
5	NegSem_2602_TheControlPart_005	The <b>stop</b> statement is not allowed in the control part.	Clause 26.2	m	y
6	NegSem_2602_TheControlPart_006	The <b>kill</b> statement is not allowed in the control part.	Clause 26.2	m	y
7	NegSem_2602_TheControlPart_007	The <b>alive</b> operation is not allowed in the control part.	Clause 26.2	m	y
8	NegSem_2602_TheControlPart_008	The <b>running</b> operation is not allowed in the control part.	Clause 26.2	m	y
9	NegSem_2602_TheControlPart_009	The <b>done</b> operation is not allowed in the control part.	Clause 26.2	m	y
10	NegSem_2602_TheControlPart_010	The <b>killed</b> operation is not allowed in the control part.	Clause 26.2	m	y
11	NegSem_2602_TheControlPart_011	The <b>connect</b> statements are not allowed in the control part.	Clause 26.2	m	y
12	NegSem_2602_TheControlPart_012	The <b>disconnect</b> statements are not allowed in the control part.	Clause 26.2	m	y
13	NegSem_2602_TheControlPart_013	The <b>map</b> statements are not allowed in the control part.	Clause 26.2	m	y
14	NegSem_2602_TheControlPart_014	The <b>unmap</b> statements are not allowed in the control part.	Clause 26.2	m	y
15	NegSem_2602_TheControlPart_015	The <b>send</b> statements are not allowed in the control part.	Clause 26.2	m	y
16	NegSem_2602_TheControlPart_016	The <b>receive</b> statements are not allowed in the control part.	Clause 26.2	m	y
17	NegSem_2602_TheControlPart_017	The <b>call</b> statements are not allowed in the control part.	Clause 26.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
18	NegSem_2602_TheControlPart_018	The <b>reply</b> statements are not allowed in the control part.	Clause 26.2	m	y
19	NegSem_2602_TheControlPart_019	The <b>raise</b> statements are not allowed in the control part.	Clause 26.2	m	y
20	NegSem_2602_TheControlPart_020	The <b>trigger</b> statements are not allowed in the control part.	Clause 26.2	m	y
21	NegSem_2602_TheControlPart_021	The <b>getcall</b> statements are not allowed in the control part.	Clause 26.2	m	y
22	NegSem_2602_TheControlPart_022	The <b>getreply</b> statements are not allowed in the control part.	Clause 26.2	m	y
23	NegSem_2602_TheControlPart_023	The <b>catch</b> statements are not allowed in the control part.	Clause 26.2	m	y
24	NegSem_2602_TheControlPart_024	The <b>check</b> statements are not allowed in the control part.	Clause 26.2	m	y
25	NegSem_2602_TheControlPart_025	The <b>clear</b> statements are not allowed in the control part.	Clause 26.2	m	y
26	NegSem_2602_TheControlPart_026	The <b>start</b> statements on ports are not allowed in the control part.	Clause 26.2	m	y
27	NegSem_2602_TheControlPart_027	The <b>stop</b> statements on ports are not allowed in the control part.	Clause 26.2	m	y
28	NegSem_2602_TheControlPart_028	The <b>halt</b> statements are not allowed in the control part.	Clause 26.2	m	y
29	NegSem_2602_TheControlPart_029	Alternative behaviours are only used to control timer behaviour in the control part.	Clause 26.2	m	y
30	NegSem_2602_TheControlPart_030	<b>Getverdict</b> statements are not allowed in the control part.	Clause 26.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
31	NegSem_2602_TheControlPart_031	<b>Execute</b> statements are not executed from test cases.	Clause 26.1	m	y
32	NegSem_2602_TheControlPart_032	The <b>create alive</b> named component is not allowed in the control part.	Clause 26.2	m	y
33	NegSem_2602_TheControlPart_033	The <b>create</b> named component is not allowed in the control part.	Clause 26.2	m	y
34	NegSem_2602_TheControlPart_034	The <b>create</b> named component on host is not allowed in the control part.	Clause 26.2	m	y
35	NegSem_2602_TheControlPart_035	Alternative behaviours are only used to control timer behaviour in the control part.	Clause 26.2	m	y
36	Sem_2602_TheControlPart_001	The selection/deselection of test cases using boolean conditions works as expected.	Clause 26.2	m	y
37	Sem_2602_TheControlPart_002	The execution of test cases works from within a function.	Clause 26.2	m	y
38	Sem_2602_TheControlPart_003	The selection of test cases can be achieved based on resulting verdict types.	Clause 26.2	m	y

## 5.157. Scope of attributes

Table 156. Scope of attributes

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Syn_270101_ScopeOfAttributes_001	Attributes for language elements are accepted.	Clause 27.1.1	m	y
2	Syn_270101_ScopeOfAttributes_002	Attributes for language elements are accepted.	Clause 27.1.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
3	Syn_270101_ScopeOfAttributes_003	Attributes for individual fields are accepted.	Clause 27.1.1	m	y
4	Syn_270101_ScopeOfAttributes_004	Attributes for individual fields are accepted.	Clause 27.1.1	m	y

## 5.158. Optional attributes

Table 157. Optional attributes

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_2707_OptionalAttributes_001	The IUT correctly handles attribute definitions and their scoping rules	Clause 27.7	m	n
2	NegSem_2707_OptionalAttributes_002	The IUT correctly handles attribute definitions and their scoping rules	Clause 27.7	m	n
3	NegSem_2707_OptionalAttributes_003	The IUT correctly handles attribute definitions and their scoping rules	Clause 27.7	m	n
4	Sem_2707_OptionalAttributes_001	The IUT correctly handles attribute definitions and their scoping rules	Clause 27.7	m	y
5	Sem_2707_OptionalAttributes_002	The IUT correctly handles attribute definitions and their scoping rules	Clause 27.7	m	y
6	Sem_2707_OptionalAttributes_003	The IUT correctly handles attribute definitions and their scoping rules	Clause 27.7	m	y
7	Sem_2707_OptionalAttributes_004	The IUT correctly handles attribute definitions and their scoping rules	Clause 27.7	m	y
8	Sem_2707_OptionalAttributes_005	The IUT correctly handles attribute definitions and their scoping rules	Clause 27.7	m	y
9	Sem_2707_OptionalAttributes_006	The IUT correctly handles attribute definitions and their scoping rules	Clause 27.7	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
10	Sem_2707_OptionalAttributes_007	The IUT correctly handles attribute definitions and their scoping rules	Clause 27.7	m	y
11	Sem_2707_OptionalAttributes_008	The IUT correctly handles attribute definitions and their scoping rules	Clause 27.7	m	n
12	Syn_2707_OptionalAttributes_001	The IUT correctly handles attribute definitions and their scoping rules	Clause 27.7	m	y

## 5.159. Matching specific values

Table 158. Matching specific values

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
1	Sem_B0101_matching_specific_value_001	The IUT correctly handles template matching of specific values	Clause B.1.1	m	y
2	Sem_B0101_matching_specific_value_002	The IUT correctly handles template matching of specific values	Clause B.1.1	m	y
3	Sem_B0101_matching_specific_value_003	The IUT correctly handles template matching of specific values	Clause B.1.1	m	y
4	Sem_B0101_matching_specific_value_004	The IUT correctly handles template matching of specific values	Clause B.1.1	m	y
5	Sem_B0101_matching_specific_value_005	The IUT correctly handles template matching of specific values	Clause B.1.1	m	y
6	Sem_B0101_matching_specific_value_006	The IUT correctly handles template matching of specific values	Clause B.1.1	m	y
7	Sem_B0101_matching_specific_value_007	The IUT correctly handles template matching of specific values	Clause B.1.1	m	y
8	Sem_B0101_matching_specific_value_008	The IUT correctly handles template matching of specific values	Clause B.1.1	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
9	Sem_B0101_matching_specific_value_009	The IUT correctly handles template matching of specific values	Clause B.1.1	m	y
10	Sem_B0101_matching_specific_value_010	The IUT correctly handles template matching of specific values	Clause B.1.1	m	y
11	Sem_B0101_matching_specific_value_011	The IUT correctly handles template matching of specific values	Clause B.1.1	m	y
12	NegSem_B0101_omitting_values_001	Ensure that the IUT correctly handles template matching of omitted values	Clause B.1.1	m	y
13	Sem_B010101_omitting_values_001	Ensure that the IUT correctly handles template matching of omitted values	Clause B.1.1	m	y
14	Sem_B010101_omitting_values_002	Ensure that the IUT correctly handles template matching of omitted values	Clause B.1.1	m	y

## 5.160. Value list

Table 159. Value list

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
1	NegSem_B010201_value_list_001	The IUT correctly handles template matching of listed multiple values	Clause B.1.2.1	m	y
3	NegSem_B010201_value_list_002	The IUT correctly handles template matching of listed multiple values	Clause B.1.2.1	m	y
4	NegSem_B010201_value_list_003	The IUT correctly handles template matching of listed multiple values	Clause B.1.2.1	m	y
5	NegSem_B010201_value_list_004	The IUT correctly handles template list correctly	Clause B.1.2.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
6	Sem_B010201_value_list_001	The IUT correctly handles template matching of listed multiple values	Clause B.1.2.1	m	y
7	Sem_B010201_value_list_002	The IUT correctly handles template matching with all <b>from</b> clause	Clause B.1.2.1	m	y
8	Sem_B010201_value_list_003	The IUT correctly handles template matching of listed multiple values	Clause B.1.2.1	m	y
9	Sem_B010201_value_list_004	The IUT correctly handles template list corretly	Clause B.1.2.1	m	y

## 5.161. Complemented value list

Table 160. Complemented value list

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_B010202_complemented_value_list_001	The IUT correctly handles template matching of complemented value listing	Clause B.1.2.2	m	n
2	NegSem_B010202_complemented_value_list_002	The IUT correctly handles template matching of complemented value listing	Clause B.1.2.2	m	y
3	NegSem_B010202_complemented_value_list_003	The IUT correctly handles template matching of complemented value listing	Clause B.1.2.2	m	y
4	NegSem_B010202_complemented_value_list_004	The IUT correctly handles template matching of complemented value omit	Clause B.1.2.2	m	n
5	Sem_B010202_complemented_value_list_001	The IUT correctly handles template matching of complemented value listing	Clause B.1.2.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
6	Sem_B010202_complemente d_value_list_002	The IUT correctly handles template matching of complemented value listing	Clause B.1.2.2	m	y
7	Sem_B010202_complemente d_value_list_003	The IUT correctly handles template matching of complemented value listing	Clause B.1.2.2	m	y
8	Sem_B010202_complemente d_value_list_004	The IUT correctly handles template matching of complemented value listing	Clause B.1.2.2	m	y
9	Sem_B010202_complemente d_value_list_005	The IUT correctly handles template matching of complemented value listing	Clause B.1.2.2	m	y
10	Sem_B010202_complemente d_value_list_006	The IUT correctly handles template matching of complemented value listing	Clause B.1.2.2	m	y
11	Sem_B010202_complemente d_value_list_007	The IUT correctly handles template matching of complemented value listing	Clause B.1.2.2	m	y
12	Sem_B010202_complemente d_value_list_008	The IUT correctly handles template matching of complemented value omit	Clause B.1.2.2	m	y

## 5.162. Any value

Table 161. Any value

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_B010203_any_value_001	The IUT correctly handles template matching of ? values	Clause B.1.2.3	m	y
2	Sem_B010203_any_value_002	The IUT correctly handles template matching of ? values	Clause B.1.2.3	m	y

## 5.163. Any value or none

Table 162. Any value or none

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_B010204_any_value_or_none_001	The IUT correctly handles template matching of * values	Clause B.1.2.4	m	y
2	NegSem_B010204_any_value_or_none_002	The IUT correctly handles template matching of * values	Clause B.1.2.4	m	y
3	Sem_B010204_any_value_or_none_001	The IUT correctly handles template matching of * values	Clause B.1.2.4	m	y
4	Sem_B010204_any_value_or_none_002	AnyValueOrNone can be assigned to top-level template	Clause B.1.2.4	m	y
5	Sem_B010204_any_value_or_none_003	AnyValueOrNone can be used for matching optional fields	Clause B.1.2.4	m	y
6	Sem_B010204_any_value_or_none_004	AnyValueOrNone cannot be used for matching non-optional value	Clause B.1.2.4	m	y
7	Sem_B010204_any_value_or_none_005	AnyValueOrNone cannot be used for matching compulsory fields	Clause B.1.2.4	m	y

## 5.164. Value range

Table 163. Value range

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_B010205_value_range_001	The IUT correctly handles template matching of value range definitions	Clause B.1.2.5	m	y
2	NegSem_B010205_value_range_002	The IUT correctly handles template matching of value range definitions	Clause B.1.2.5	m	y
3	NegSem_B010205_value_range_003	The IUT correctly handles template matching of value range definitions	Clause B.1.2.5	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
4	Sem_B010205_value_range_001	The IUT correctly handles template matching of value range definitions	Clause B.1.2.5	m	y
5	Sem_B010205_value_range_002	The IUT correctly handles template matching of value range definitions	Clause B.1.2.5	m	y
6	Sem_B010205_value_range_003	The IUT correctly handles template matching of value range definitions	Clause B.1.2.5	m	y
7	Sem_B010205_value_range_004	The IUT correctly handles template matching of value range definitions	Clause B.1.2.5	m	y
8	Sem_B010205_value_range_005	The IUT correctly handles template matching of value range definitions	Clause B.1.2.5	m	y
9	Sem_B010205_value_range_006	The IUT correctly handles template matching of value range definitions	Clause B.1.2.5	m	y
10	Sem_B010205_value_range_007	The IUT correctly handles template matching of value range definitions	Clause B.1.2.5	m	y
11	Sem_B010205_value_range_008	The IUT correctly handles template matching of value range definitions	Clause B.1.2.5	m	y

## 5.165. SuperSet

Table 164. SuperSet

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
1	NegSem_B010206_superset_001	The IUT correctly handles template matching of superset definitions	Clause B.1.2.6	m	y
2	NegSem_B010206_superset_002	The IUT correctly handles template matching of superset definitions	Clause B.1.2.6	m	y
3	NegSem_B010206_superset_003	The IUT correctly handles template matching of superset definition	Clause B.1.2.6	m	n

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
4	NegSem_B010206_superset_004	The IUT correctly handles template matching of superset definition	Clause B.1.2.6	m	y
5	NegSem_B010206_superset_005	The IUT correctly handles template matching of superset definition	Clause B.1.2.6	m	y
6	NegSem_B010206_superset_006	The IUT correctly handles template matching of superset definition	Clause B.1.2.6	m	y
7	NegSem_B010206_superset_007	The IUT correctly handles template matching of superset definitions	Clause B.1.2.6	m	y
8	NegSem_B010206_superset_008	The IUT correctly handles template matching of superset definition	Clause B.1.2.6	m	y
9	Sem_B010206_superset_001	The IUT correctly handles template matching of superset definitions	Clause B.1.2.6	m	y
10	Sem_B010206_superset_002	The IUT correctly handles template matching of superset definitions	Clause B.1.2.6	m	y
11	Sem_B010206_superset_003	The IUT correctly handles template matching of superset definitions	Clause B.1.2.6	m	y
12	Sem_B010206_superset_004	The IUT correctly handles template matching of superset definitions	Clause B.1.2.6	m	y
13	Sem_B010206_superset_005	The IUT correctly handles template matching of superset definition	Clause B.1.2.6	m	y
14	Sem_B010206_superset_006	The IUT correctly handles template matching of superset definition	Clause B.1.2.6	m	y
15	Sem_B010206_superset_007	The IUT correctly handles template matching of superset definitions	Clause B.1.2.6	m	y
16	Sem_B010206_superset_008	The IUT correctly handles template matching of superset definition	Clause B.1.2.6	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
17	Sem_B010206_superset_009	The IUT correctly handles template matching of superset definition	Clause B.1.2.6	m	y

## 5.166. SubSet

Table 165. SubSet

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
1	NegSem_B010207_subset_001	The IUT correctly handles template matching of subset definitions	Clause B.1.2.7	m	y
2	NegSem_B010207_subset_002	The IUT correctly handles template matching of subset definitions	Clause B.1.2.7	m	y
3	NegSem_B010207_subset_003	The IUT correctly handles template matching of subset definitions	Clause B.1.2.7	m	n
4	NegSem_B010207_subset_004	The IUT correctly handles template matching of subset definitions	Clause B.1.2.7	m	y
5	NegSem_B010207_subset_005	The IUT correctly handles template matching of subset definitions	Clause B.1.2.7	m	y
6	NegSem_B010207_subset_006	The IUT correctly handles template matching of subset definitions	Clause B.1.2.7	m	y
7	NegSem_B010207_subset_007	The IUT correctly handles template matching of subset definitions	Clause B.1.2.7	m	y
8	NegSem_B010207_subset_008	The IUT correctly handles template matching of subset definitions	Clause B.1.2.7	m	y
9	Sem_B010207_subset_001	The IUT correctly handles template matching of subset definitions	Clause B.1.2.7	m	y
10	Sem_B010207_subset_002	The IUT correctly handles template matching of subset definitions	Clause B.1.2.7	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
11	Sem_B010207_subset_003	The IUT correctly handles template matching of subset definitions	Clause B.1.2.7	m	y
12	Sem_B010207_subset_004	The IUT correctly handles template matching of subset definition	Clause B.1.2.7	m	y
13	Sem_B010207_subset_005	The IUT correctly handles template matching of subset definition	Clause B.1.2.7	m	y
14	Sem_B010207_subset_006	The IUT correctly handles template matching of subset definition	Clause B.1.2.7	m	y
15	Sem_B010207_subset_007	The IUT correctly handles template matching of subset definition	Clause B.1.2.7	m	y
16	Sem_B010207_subset_008	The IUT correctly handles template matching of subset definition	Clause B.1.2.7	m	y

## 5.167. Omitting optional fields

Table 166. Omitting optional fields

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
1	NegSem_B010208_omit_value_001	The IUT correctly handles template matching of omit values	Clause B.1.2.8	m	y
2	NegSem_B010208_omit_value_002	The IUT correctly handles template matching of omit values	Clause B.1.2.8	m	y
3	NegSem_B010208_omit_value_003	The IUT correctly handles template matching of omit values	Clause B.1.2.8	m	n
4	Sem_B010208_omit_value_001	The IUT correctly handles template matching of omit values	Clause B.1.2.8	m	y
5	Sem_B010208_omit_value_002	The IUT correctly handles template matching of omit values	Clause B.1.2.8	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
6	Sem_B010208_omit_value_003	The IUT correctly handles template matching of omit values	Clause B.1.2.8	m	y
7	Sem_B010208_omit_value_004	The IUT correctly handles template matching of omit values	Clause B.1.2.8	m	y

## 5.168. Decoded content

Table 167. Any element

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_B010209_decoded_content_001	The IUT correctly handles content decoding	Clause B.1.2.9	m	y
2	Sem_B010209_decoded_content_002	The IUT correctly handles content decoding	Clause B.1.2.9	m	y
3	Sem_B010209_decoded_content_003	The IUT correctly handles content decoding	Clause B.1.2.9	m	y
4	Sem_B010209_decoded_content_004	The IUT correctly handles content decoding	Clause B.1.2.9	m	y
5	Sem_B010209_decoded_content_005	The IUT correctly handles content decoding	Clause B.1.2.9	m	y

## 5.169. Enumerated value list

Table 168. Enumerated value list

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_B010210_enumerated_value_list_001	The IUT correctly handles enum matching	Clause B.1.2.10	m	n

## 5.170. Any element

Table 169. Any element

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
1	Sem_B010301_any_element_001	The IUT correctly handles template matching of ? symbols in value elements	Clause B.1.3.1	m	y
2	Sem_B010301_any_element_002	The IUT correctly handles template matching of ? symbols in value elements	Clause B.1.3.1	m	y
3	Sem_B010301_any_element_003	The IUT correctly handles template matching of ? symbols in value elements	Clause B.1.3.1	m	y
4	Sem_B010301_any_element_004	The IUT correctly handles template matching of ? symbols in value elements	Clause B.1.3.1	m	y
5	Sem_B010301_any_element_005	The IUT correctly handles template matching of ? symbols in value elements	Clause B.1.3.1	m	y
6	Sem_B010301_any_element_006	The IUT correctly handles template matching of ? symbols in value elements	Clause B.1.3.1	m	y
7	Sem_B010301_any_element_007	The IUT correctly handles template matching of ? symbols in value elements	Clause B.1.3.1	m	y
8	Sem_B010301_any_element_008	The IUT correctly handles template matching of ? symbols in value elements	Clause B.1.3.1	m	y

## 5.171. Any number of elements of no element

Table 170. Any number of elements of no element

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
1	Sem_B010302_any_number_of_elements_or_none_001	The IUT correctly handles template matching of * symbols in value elements	Clause B.1.3.2	m	y
2	Sem_B010302_any_number_of_elements_or_none_002	The IUT correctly handles template matching of * symbols in value elements	Clause B.1.3.2	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
3	Sem_B010302_any_number_of_elements_or_none_003	The IUT correctly handles template matching of * symbols in value elements	Clause B.1.3.2	m	y

## 5.172. Permutation

Table 171. Permutation

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_B010303_permutation_001	The IUT correctly handles template matching of ? symbols in value elements	Clause B.1.3.3	m	y
2	NegSem_B010303_permutation_002	All from operand can be a record of or set of only	Clause B.1.3.3	m	y
3	NegSem_B010303_permutation_003	Type restriction for permutation elements is applied	Clause B.1.3.3	m	y
4	NegSem_B010303_permutation_004	Type restriction for all from clause in permutation is applied	Clause B.1.3.3	m	n
5	NegSem_B010303_permutation_005	Verify restriction on individual members of all from operand in permutation	Clause B.1.3.3	m	y
6	NegSem_B010303_permutation_006	Verify restriction on individual members of all from operand in permutation	Clause B.1.3.3	m	y
7	Sem_B010303_permutation_001	The IUT correctly handles template matching of ? symbols in value elements	Clause B.1.3.3	m	y
8	Sem_B010303_permutation_002	The IUT correctly handles template matching of ? symbols in value elements	Clause B.1.3.3	m	y
9	Sem_B010303_permutation_003	The IUT correctly handles template matching of ? symbols in value elements	Clause B.1.3.3	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
10	Sem_B010303_permutation_004	The IUT correctly handles template matching of ? symbols in value elements	Clause B.1.3.3	m	y
11	Sem_B010303_permutation_005	The IUT correctly handles template matching of ? symbols in value elements	Clause B.1.3.3	m	y
12	Sem_B010303_permutation_006	The IUT correctly handles permutation within arrays	Clause B.1.3.3	m	y
13	Sem_B010303_permutation_007	All <b>from</b> clause can be used inside permutation	Clause B.1.3.3	m	y
14	Sem_B010303_permutation_008	All <b>from</b> clause operand can be a set of value	Clause B.1.3.3	m	y
15	Sem_B010303_permutation_009	All <b>from</b> clause operand can be a set of value	Clause B.1.3.3	m	y

## 5.173. Length restrictions

Table 172. Length restrictions

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_B010401_length_restrictions_001	The IUT correctly handles template matching of value length definitions	Clause B.1.4.1	m	y
2	NegSem_B010401_length_restrictions_002	The IUT correctly handles template matching of value length definitions	Clause B.1.4.1	m	y
3	Sem_B010401_length_restrictions_001	The IUT correctly handles template matching of value length definitions	Clause B.1.4.1	m	y
4	Sem_B010401_length_restrictions_002	The IUT correctly handles template matching of value length definitions	Clause B.1.4.1	m	y
5	Sem_B010401_length_restrictions_003	The IUT correctly handles template matching of value length definitions	Clause B.1.4.1	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
6	Sem_B010401_length_restrictions_004	The IUT correctly handles template matching of value length definitions	Clause B.1.4.1	m	y

## 5.174. The *ifpresent* indicator

Table 173. The *ifpresent* indicator

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_B010402_ifPresent_indicator_001	The IUT correctly handles template matching of <i>ifpresent</i> indicators	Clause B.1.4.2	m	y
2	Sem_B010402_ifPresent_indicator_001	The IUT correctly handles template matching of <i>ifpresent</i> indicators	Clause B.1.4.2	m	y
3	Sem_B010402_ifPresent_indicator_002	The IUT correctly handles template matching of <i>ifpresent</i> indicators	Clause B.1.4.2	m	y

## 5.175. Matching character pattern

Table 174. Matching character pattern

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_B0105_toplevel_001	The IUT correctly handles template matching of character pattern definitions	Clause B.1.5	m	y
2	Sem_B0105_toplevel_002	The IUT correctly handles template quadruple and USI-like syntax matching of character pattern definitions	Clause B.1.5	m	y

## 5.176. Set expression

Table 175. Set expression

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
1	NegSem_B010501_set_expression_001	The IUT correctly handles template matching of character pattern set expressions	Clause B.1.5.1	m	y
2	Sem_B010501_set_expression_001	The IUT correctly handles template matching of character pattern set expressions	Clause B.1.5.1	m	y
3	Sem_B010501_set_expression_002	The IUT correctly handles template matching of character pattern set expressions	Clause B.1.5.1	m	y
4	Sem_B010501_set_expression_003	The IUT correctly handles template matching of character pattern set expressions	Clause B.1.5.1	m	y
5	Sem_B010501_set_expression_004	The IUT correctly handles template matching of character pattern set expressions	Clause B.1.5.1	m	y
6	Sem_B010501_set_expression_005	The IUT correctly handles template matching of character pattern set expressions	Clause B.1.5.1	m	y
7	Sem_B010501_set_expression_006	The IUT correctly handles template matching of character pattern set expressions	Clause B.1.5.1	m	y

## 5.177. Reference expression

Table 176. Reference expression

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
1	Sem_B010502_reference_expression_001	The IUT correctly handles template matching of character pattern reference expressions	Clause B.1.5.2	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
2	Sem_B010502_reference_expression_002	The IUT correctly handles template matching of character pattern reference expressions	Clause B.1.5.2	m	y
3	Sem_B010502_reference_expression_003	The IUT correctly handles template matching of character pattern reference expressions	Clause B.1.5.2	m	y
4	Sem_B010502_reference_expression_004	The IUT correctly handles template matching of character pattern reference expressions	Clause B.1.5.2	m	y
5	Sem_B010502_reference_expression_005	The IUT correctly handles template matching of character pattern reference expressions	Clause B.1.5.2	m	y
6	Sem_B010502_reference_expression_006	The IUT correctly handles template matching of character pattern reference expressions	Clause B.1.5.2	m	y
7	Sem_B010502_reference_expression_007	The IUT correctly handles template matching of character pattern reference expressions	Clause B.1.5.2	m	y
8	Sem_B010502_reference_expression_008	The IUT correctly handles template matching of character pattern reference expressions	Clause B.1.5.2	m	y
9	Sem_B010502_reference_expression_009	The IUT correctly handles template matching of character pattern reference expressions	Clause B.1.5.2	m	y
10	Sem_B010502_reference_expression_010	The IUT correctly handles template matching of character pattern reference expressions	Clause B.1.5.2	m	n
11	Sem_B010502_reference_expression_011	The IUT correctly handles template matching of character pattern reference expressions	Clause B.1.5.2	m	y

## 5.178. Match expression n times

Table 177. Match expression n times

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_B010503_match_n_times_001	The IUT correctly handles template matching of character pattern expression multiplicity	Clause B.1.5.3	m	y
2	Sem_B010503_match_n_times_002	The IUT correctly handles template matching of character pattern expression multiplicity	Clause B.1.5.3	m	y
3	Sem_B010503_match_n_times_003	The IUT correctly handles template matching of character pattern expression multiplicity	Clause B.1.5.3	m	y
4	Sem_B010503_match_n_times_004	The IUT correctly handles template matching of character pattern expression multiplicity	Clause B.1.5.3	m	y
5	Sem_B010503_match_n_times_005	The IUT correctly handles template matching of character pattern expression multiplicity	Clause B.1.5.3	m	y

## 5.179. Match a referenced character set

Table 178. Match a referenced character set

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSem_B010504_match_referenced_characters_001	The IUT correctly handles template matching of character pattern reference characters	Clause B.1.5.4	m	y
2	Sem_B010504_match_referenced_characters_001	The IUT correctly handles template matching of character pattern reference characters	Clause B.1.5.4	m	y
3	Sem_B010504_match_referenced_characters_002	The IUT correctly handles template matching of character pattern reference characters	Clause B.1.5.4	m	y

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
4	Sem_B010504_match_referenced_characters_003	The IUT correctly handles template matching of character pattern reference characters	Clause B.1.5.4	m	y
5	Sem_B010504_match_referenced_characters_004	The IUT correctly handles template matching of character pattern reference characters	Clause B.1.5.4	m	
6	Sem_B010504_match_referenced_characters_005	The IUT correctly handles template matching of character pattern reference characters	Clause B.1.5.4	m	y
7	Sem_B010504_match_referenced_characters_006	The IUT correctly handles template matching of character pattern reference characters	Clause B.1.5.4	m	y
8	Sem_B010504_match_referenced_characters_007	The IUT correctly handles template matching of character pattern reference characters	Clause B.1.5.4	m	y

## 5.180. Type compatibility rules for patterns

Table 179. Type compatibility rules for patterns

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	NegSyn_B010505_pattern_compatibility_001	The IUT correctly handles character pattern metacharacters compatibility rules of template matching	Clause B.1.5.5	m	y
2	Sem_B010505_pattern_compatibility_001	The IUT correctly handles character pattern compatibility rules of template matching	Clause B.1.5.5	m	y
3	Sem_B010505_pattern_compatibility_002	The IUT correctly handles character pattern compatibility rules of template matching	Clause B.1.5.5	m	n

## 5.181. Case insensitive pattern matching

Table 180. Case insensitive pattern matching

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_B010506_case_sensitive_pattern_matching_001	The IUT correctly handles character pattern compatibility rules of template case sensitive matching (@nocase)	Clause B.1.5.6	m	y
2	Sem_B010506_case_sensitive_pattern_matching_002	The IUT correctly handles character pattern compatibility rules of template case sensitive matching (@nocase)	Clause B.1.5.6	m	y

## 5.182. Other functions

Table 181. Other functions

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_C0602_The_hostid_function_001	Ensure that the IUT correctly handles the hostid function	Clause C.6.3	m	y
2	Sem_C0602_The_testcasename_function_001	Ensure that the IUT correctly handles the testcasename function	Clause C.6.2	m	y

## 5.183. Preprocessing macros

Table 182. Preprocessing macros

Item	TC/TP reference	purpose	Reference in ES 201 873-1	Status	Support
1	Sem_D01_macro_module_001	<b>MODULE</b> replaces the module name	Clause D	m	y
2	Sem_D02_macro_file_001	<b>FILE</b> macro stores the path and file name in a charstring	Clause D	m	y
3	Sem_D03_macro_bfile_001	The <b>BFILE</b> macro replaces the actual file name	Clause D	m	y

<b>Item</b>	<b>TC/TP reference</b>	<b>purpose</b>	<b>Reference in ES 201 873-1</b>	<b>Status</b>	<b>Support</b>
4	Sem_D04_macro_line_001	<b>LINE</b> macro stores the actual line number when it is called	Clause D	m	y
5	NegSem_D05_macro_scope_001	<b>SCOPE</b> replaces the actual higher named basic scope unit	Clause D	m	y
6	Sem_D05_macro_scope_001	<b>SCOPE</b> replaces the actual higher basic unit	Clause D	m	y
7	Sem_D05_macro_scope_002	<b>SCOPE</b> replaces the actual higher basic unit	Clause D	m	y