



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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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

| | |
|------------------------|------------|
| Date of the statement: | 2016.05.09 |
|------------------------|------------|

4.2.2. Implementation under Test (IUT) identification

| | |
|--------------|-------------------|
| IUT name: | Eclipse Titan |
| IUT version: | CRL 113 200/5 R5A |

4.2.3. ICS contact person

| | |
|-------------------------|--------------------------------------------------------------------------|
| Name: | Elemer Lelik |
| Telephone number: | |
| Facsimile number: | |
| E-mail address: | Elemer.Lelik@ericsson.com |
| 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 hieararchy of component constants. | Clause 5.2 | m | y |
| 5 | Sem_0502_Scope_002 | The IUT handle scope hieararchy 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

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|------------------------------|-------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|---------------------------|------------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|--------------------------|---------------------------------------------------------------|---------------------------|--------|---------|
| 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 in parameter | Clause 5.4.1 | m | y |
| 2 | NegSem_0504_01_top_level_002 | verify that error is generated for incompatible actual value of out parameter | Clause 5.4.1 | m | y |
| 3 | NegSem_0504_01_top_level_003 | verify that error is generated if actual inout parameter doesn't adhere to strong typing rules | Clause 5.4.1 | m | n |
| 4 | Sem_050401_top_level_001 | verify that in parameters can be read within parametrized content | Clause 5.4.1 | m | y |
| 5 | Sem_050401_top_level_002 | verify that out parameters can be read within parametrized content | Clause 5.4.1 | m | n |
| 6 | Sem_050401_top_level_003 | verify that inout 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 in parameters can be set within parametrized content | Clause 5.4.1 | m | y |
| 8 | Sem_050401_t op_level_005 | verify that out parameters can be set within parametrized content | Clause 5.4.1 | m | y |
| 9 | Sem_050401_t op_level_006 | verify that inout parameters can be set within parametrized content | Clause 5.4.1 | m | y |
| 10 | Sem_050401_t op_level_007 | verify that in 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 in 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 in parameters can be used as actual inout parameters of parameterized objects | Clause 5.4.1 | m | y |
| 13 | Sem_050401_t op_level_010 | verify that out parameters can be used as actual in parameters of parameterized objects | Clause 5.4.1 | m | y |
| 14 | Sem_050401_t op_level_011 | verify that out parameters can be used as actual out parameters of parameterized objects | Clause 5.4.1 | m | y |
| 15 | Sem_050401_t op_level_012 | verify that out parameters can be used as actual inout parameters of parameterized objects | Clause 5.4.1 | m | y |
| 16 | Sem_050401_t op_level_013 | verify that inout parameters can be used as actual in 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_top_level_014 | verify that inout parameters can be used as actual out parameters of parameterized objects | Clause 5.4.1 | m | y |
| 18 | Sem_050401_top_level_015 | verify that inout parameters can be used as actual inout parameters of parameterized objects | Clause 5.4.1 | m | y |
| 19 | Sem_050401_top_level_016 | verify that compatibility rules are used for passing in parameters | Clause 5.4.1 | m | y |
| 20 | Sem_050401_top_level_017 | verify that compatibility rules are used for passing out parameters | Clause 5.4.1 | m | y |
| 21 | Sem_050401_top_level_018 | verify that strong typing is used for passing inout parameters | Clause 5.4.1 | m | y |
| 22 | Sem_050401_top_level_019 | verify that @lazy modifier can be used for value parameters | Clause 5.4.1 | m | y |
| 23 | Sem_050401_top_level_020 | verify that @lazy modifier can be used for template parameters | Clause 5.4.1 | m | y |
| 24 | Sem_050401_top_level_021 | verify that @lazy parameters containing component variable references are properly evaluated | Clause 5.4.1 | m | y |
| 25 | Sem_050401_top_level_022 | verify that @fuzzy modifier can be used for value parameters | Clause 5.4.1 | m | y |
| 26 | Sem_050401_top_level_023 | verify that @fuzzy modifier can be used for template parameters | Clause 5.4.1 | m | y |
| 27 | Sem_050401_top_level_024 | verify that @fuzzy 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_top_level_025 | verify that default values of @lazy parameters are properly evaluated | Clause 5.4.1 | m | y |
| 29 | Sem_050401_top_level_026 | verify that default values of @fuzzy parameters are properly evaluated | Clause 5.4.1 | m | n |
| 30 | Sem_050401_top_level_027 | verify that passing lazy parameter to formal parameter without modifier disables lazy evaluation | Clause 5.4.1 | m | y |
| 31 | Sem_050401_top_level_028 | verify that passing fuzzy parameter to formal parameter without modifier disables fuzzy evaluation | Clause 5.4.1 | m | y |
| 32 | Sem_050401_top_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_05040101_parameters_of_kind_value_001 | verify that in value formal parameters of template cannot used dash as default value | Clause 5.4.1.1 | m | y |
| 2 | NegSem_05040101_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_05040101_parameters_of_kind_value_003 | verify that template definitions cannot contain out 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 inout value formal parameters | Clause 5.4.1.1 | m | y |
| 5 | NegSem_05040101_parameters_of_kind_value_005 | verify that out value formal parameters cannot have default values | Clause 5.4.1.1 | m | y |
| 6 | NegSem_05040101_parameters_of_kind_value_006 | verify that inout 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 runs on 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 out formal value parameters cannot have lazy modifier | Clause 5.4.1.1 | m | y |
| 15 | NegSem_05040101_parameters_of_kind_value_015 | verify that out formal value parameters cannot have fuzzy modifier | Clause 5.4.1.1 | m | n |
| 16 | NegSem_05040101_parameters_of_kind_value_016 | verify that inout formal value parameters cannot have lazy modifier | Clause 5.4.1.1 | m | y |
| 17 | NegSem_05040101_parameters_of_kind_value_017 | verify that inout formal value parameters cannot have fuzzy modifier | Clause 5.4.1.1 | m | n |
| 18 | NegSyn_05040101_parameters_of_kind_value_001 | verify that const definition cannot be parameterized | Clause 5.4.1.1 | m | y |
| 19 | NegSyn_05040101_parameters_of_kind_value_002 | verify that var 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|----------------------------------------------|---------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 in 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 in value formal parameters | Clause 5.4.1.1 | m | n |
| 37 | Sem_05040101_parameters_of_kind_value_007 | verify that function definition can contain in , out and inout value formal parameters | Clause 5.4.1.1 | m | y |
| 38 | Sem_05040101_parameters_of_kind_value_008 | verify that altstep definition can contain in , out and inout 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 in , out and inout 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 in 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 in 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 in 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 in 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 in 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 in 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 null 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 self 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 mtc 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 system 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 null 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 in 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 out template formal parameters | Clause 5.4.1.2 | m | y |
| 4 | NegSem_05040102_parameters_of_kind_template_004 | verify that template definitions cannot contain inout template formal parameters | Clause 5.4.1.2 | m | y |
| 5 | NegSem_05040102_parameters_of_kind_template_005 | verify that out template formal parameters cannot have default values | Clause 5.4.1.2 | m | y |
| 6 | NegSem_05040102_parameters_of_kind_template_006 | verify that inout 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_0504 0102_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_0504 0102_parameters_of_kind_template_010 | verify that default template instance of template formal parameters cannot invoke functions with runs on clause | Clause 5.4.1.2 | m | y |
| 11 | NegSem_0504 0102_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_0504 0102_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_0504 0102_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_0504 0102_parameters_of_kind_template_014 | verify that out formal template parameters cannot have lazy modifier | Clause 5.4.1.2 | m | y |
| 15 | NegSem_0504 0102_parameters_of_kind_template_015 | verify that out formal template parameters cannot have fuzzy modifier | Clause 5.4.1.2 | m | n |
| 16 | NegSem_0504 0102_parameters_of_kind_template_016 | verify that inout formal template parameters cannot have lazy modifier | Clause 5.4.1.2 | m | y |
| 17 | NegSem_0504 0102_parameters_of_kind_template_017 | verify that inout 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 in 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 in 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 in 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 in 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 in 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 in 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 in 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 in 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 in , out and inout 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 in , out and inout 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 in , out and inout 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 in 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 in 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 in , out and inout 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 in , out and inout 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 in , out and inout 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 in 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 in 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 inout 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 inout 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 inout 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 inout 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 altstep definition can contain in, out and inout 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 inout template formal parameters with short omit restriction | Clause 5.4.1.2 | m | y |
| 55 | Sem_05040102_parameters_of_kind_template_035 | verify that null 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 self 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 mtc 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 system 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 component.start 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 component.start 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 inout prefix can be used for timer parameters | Clause 5.4.1.3 | m | y |
| 9 | Sem_05040103_parameters_of_kind_timer_003 | Verify that altstep 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 component.start 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 component.start 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 inout 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 in 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 in formal value parameters of functions | Clause 5.4.2 | m | y |
| 3 | NegSem_050402_actual_parameters_003 | verify that template in parameters cannot be used as in formal value parameters of functions | Clause 5.4.2 | m | y |
| 4 | NegSem_050402_actual_parameters_004 | verify that template out parameters cannot be used as in formal value parameters of functions | Clause 5.4.2 | m | y |
| 5 | NegSem_050402_actual_parameters_005 | verify that template inout parameters cannot be used as in 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 in 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 in formal value parameters of templates | Clause 5.4.2 | m | y |
| 8 | NegSem_050402_actual_parameters_008 | verify that template in parameters cannot be used as in formal value parameters of templates | Clause 5.4.2 | m | y |
| 9 | NegSem_050402_actual_parameters_009 | verify that template out parameters cannot be used as in formal value parameters of templates | Clause 5.4.2 | m | y |
| 10 | NegSem_050402_actual_parameters_010 | verify that template inout parameters cannot be used as in 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 in formal value parameters of altsteps | Clause 5.4.2 | m | y |

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

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| 22 | NegSem_050402_actual_parameters_022 | verify that module parameters cannot be used as inout formal value parameters of functions | Clause 5.4.2 | m | y |
| 23 | NegSem_050402_actual_parameters_023 | verify that constants cannot be used as inout 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 inout formal value parameters of functions | Clause 5.4.2 | m | y |
| 25 | NegSem_050402_actual_parameters_025 | verify that expressions cannot be used as inout 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 inout 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 inout formal value parameters of functions | Clause 5.4.2 | m | y |
| 28 | NegSem_050402_actual_parameters_028 | verify that template in parameters cannot be used as inout formal value parameters of functions | Clause 5.4.2 | m | y |
| 29 | NegSem_050402_actual_parameters_029 | verify that template out parameters cannot be used as inout formal value parameters of functions | Clause 5.4.2 | m | y |
| 30 | NegSem_050402_actual_parameters_030 | verify that template inout parameters cannot be used as inout 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 inout formal value parameters of functions | Clause 5.4.2 | m | y |

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| 32 | NegSem_050402_actual_parameters_032 | verify that reference to elements of formal value parameters cannot be used as inout formal value parameters of functions | Clause 5.4.2 | m | y |
| 33 | NegSem_050402_actual_parameters_033 | verify that literals cannot be used as inout 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 inout formal value parameters of altsteps | Clause 5.4.2 | m | y |
| 35 | NegSem_050402_actual_parameters_035 | verify that constants cannot be used as inout 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 inout formal value parameters of altsteps | Clause 5.4.2 | m | y |
| 37 | NegSem_050402_actual_parameters_037 | verify that expressions cannot be used as inout 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 inout 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 inout formal value parameters of altsteps | Clause 5.4.2 | m | y |
| 40 | NegSem_050402_actual_parameters_040 | verify that template in parameters cannot be used as inout 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 inout formal value parameters of altsteps | Clause 5.4.2 | m | y |

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| 42 | NegSem_050402_actual_parameters_042 | verify that template inout parameters cannot be used as inout 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 inout 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 inout formal value parameters of altsteps | Clause 5.4.2 | m | y |
| 45 | NegSem_050402_actual_parameters_045 | verify that literals cannot be used as inout 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 inout 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 inout 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 inout 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 inout 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 inout formal value parameters of test cases | Clause 5.4.2 | m | y |

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| 51 | NegSem_050402_actual_parameters_051 | verify that template variables cannot be used as inout formal value parameters of test cases | Clause 5.4.2 | m | y |
| 52 | NegSem_050402_actual_parameters_052 | verify that template in parameters cannot be used as inout formal value parameters of test cases | Clause 5.4.2 | m | y |
| 53 | NegSem_050402_actual_parameters_053 | verify that template out parameters cannot be used as inout formal value parameters of test cases | Clause 5.4.2 | m | y |
| 54 | NegSem_050402_actual_parameters_054 | verify that template inout parameters cannot be used as inout 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 inout 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 inout 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 |

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| 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 |

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| 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 inout 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 inout formal template parameters of functions | Clause 5.4.2 | m | y |
| 77 | NegSem_050402_actual_parameters_077 | verify that constants cannot be used as inout formal template parameters of functions | Clause 5.4.2 | m | y |

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| 78 | NegSem_050402_actual_parameters_078 | verify that function calls cannot be used as inout formal template parameters of functions | Clause 5.4.2 | m | y |
| 79 | NegSem_050402_actual_parameters_079 | verify that expressions cannot be used as inout 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 inout formal template parameters of functions | Clause 5.4.2 | m | y |
| 81 | NegSem_050402_actual_parameters_081 | verify that literals cannot be used as inout 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 inout formal template parameters of altsteps | Clause 5.4.2 | m | y |
| 83 | NegSem_050402_actual_parameters_083 | verify that constants cannot be used as inout 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 inout formal template parameters of altsteps | Clause 5.4.2 | m | y |
| 85 | NegSem_050402_actual_parameters_085 | verify that expressions cannot be used as inout 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 inout formal template parameters of altsteps | Clause 5.4.2 | m | y |

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| 87 | NegSem_050402_actual_parameters_087 | verify that literals cannot be used as inout 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 inout 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 inout 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 inout 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 inout 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 inout 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 in 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 in 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 out formal template parameters | Clause 5.4.2 | m | y |

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| 96 | NegSem_050402_actual_parameters_096 | verify that referencing rules are correctly applied to actual parameters of inout formal template parameters | Clause 5.4.2 | m | y |
| 97 | NegSem_050402_actual_parameters_097 | verify that string item references cannot be used as inout 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 |

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| 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 inout 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 inout 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 |

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| 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 |

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| 126 | NegSem_050402_actual_parameters_126 | verify that error is generated when fuzzy variable is passed to inout 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 inout 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 inout 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 inout 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 inout 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 inout 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 inout 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 inout parameters | Clause 5.4.2 | m | n |

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| 136 | NegSem_050402_actual_parameters_136 | verify that error is generated when passing record and its sub-elements to inout 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 inout 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 inout 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 inout 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 inout 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 inout 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 inout parameters | Clause 5.4.2 | m | n |
| 143 | NegSem_050402_actual_parameters_143 | verify that error is generated when passing distinct union alternatives to inout parameters | Clause 5.4.2 | m | n |
| 144 | NegSem_050402_actual_parameters_144 | verify that error is generated when passing distinct union alternatives to inout parameters | Clause 5.4.2 | m | n |

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| 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 |

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| 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 inout template parameters | Clause 5.4.2 | m | n |
| 163 | NegSem_050402_actual_parameters_163 | verify that unrestricted template variables cannot be passed to restricted inout template parameters | Clause 5.4.2 | m | n |
| 164 | NegSem_050402_actual_parameters_164 | verify that restricted template variables cannot be passed to inout template parameters with a different restriction | Clause 5.4.2 | m | n |

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| 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 in 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 out 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 inout 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 in parameters cannot be used as out formal template parameters of altsteps | Clause 5.4.2 | m | y |

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| 173 | NegSem_050402_actual_parameters_173 | verify that value out 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 inout 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 in 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 in 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 in parameters cannot be used as out formal template parameters of test cases | Clause 5.4.2 | m | y |

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| 181 | NegSem_050402_actual_parameters_181 | verify that value in 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 in 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 in 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 in formal value parameters of functions | Clause 5.4.2 | m | y |
| 187 | Sem_050402_actual_parameters_005 | verify that constants can be used as in formal value parameters of functions | Clause 5.4.2 | m | y |
| 188 | Sem_050402_actual_parameters_006 | verify that variables can be used as in 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 in 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 in 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 in formal value parameters of functions | Clause 5.4.2 | m | y |

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| 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 |

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| 203 | Sem_050402_actual_parameters_021 | verify that literals can be used as in 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 in formal value parameters of altsteps | Clause 5.4.2 | m | y |
| 205 | Sem_050402_actual_parameters_023 | verify that constants can be used as in formal value parameters of altsteps | Clause 5.4.2 | m | y |
| 206 | Sem_050402_actual_parameters_024 | verify that variables can be used as in 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 in formal value parameters of altsteps | Clause 5.4.2 | m | y |
| 208 | Sem_050402_actual_parameters_026 | verify that in value parameters can be used as in 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 in formal value parameters of altsteps | Clause 5.4.2 | m | y |
| 210 | Sem_050402_actual_parameters_028 | verify that inout value parameters can be used as in formal value parameters of altsteps | Clause 5.4.2 | m | y |
| 211 | Sem_050402_actual_parameters_029 | verify that expressions can be used as in formal value parameters of altsteps | Clause 5.4.2 | m | y |
| 212 | Sem_050402_actual_parameters_030 | verify that literals can be used as in 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 in formal value parameters of test cases | Clause 5.4.2 | m | y |

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| 214 | Sem_050402_actual_parameters_032 | verify that constants can be used as in 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 in 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 in formal value parameters of test cases | Clause 5.4.2 | m | y |
| 217 | Sem_050402_actual_parameters_035 | verify that in value parameters can be used as in formal value parameters of test cases | Clause 5.4.2 | m | y |
| 218 | Sem_050402_actual_parameters_036 | verify that out value parameters can be used as in formal value parameters of test cases | Clause 5.4.2 | m | y |
| 219 | Sem_050402_actual_parameters_037 | verify that inout value parameters can be used as in 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 in 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 inout formal value parameters of functions | Clause 5.4.2 | m | y |
| 222 | Sem_050402_actual_parameters_040 | verify that in value parameters can be used as inout formal value parameters of functions | Clause 5.4.2 | m | y |
| 223 | Sem_050402_actual_parameters_041 | verify that out value parameters can be used as inout formal value parameters of functions | Clause 5.4.2 | m | y |

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| 224 | Sem_050402_actual_parameters_042 | verify that inout value parameters can be used as inout 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 inout 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 inout formal value parameters of functions | Clause 5.4.2 | m | y |
| 227 | Sem_050402_actual_parameters_045 | verify that variables can be used as inout formal value parameters of altsteps | Clause 5.4.2 | m | y |
| 228 | Sem_050402_actual_parameters_046 | verify that in value parameters can be used as inout formal value parameters of altsteps | Clause 5.4.2 | m | y |
| 229 | Sem_050402_actual_parameters_047 | verify that out value parameters can be used as inout formal value parameters of altsteps | Clause 5.4.2 | m | y |
| 230 | Sem_050402_actual_parameters_048 | verify that inout value parameters can be used as inout 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 inout 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 inout formal value parameters of altsteps | Clause 5.4.2 | m | y |

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| 233 | Sem_050402_actual_parameters_051 | verify that variables can be used as inout formal value parameters of test cases | Clause 5.4.2 | m | y |
| 234 | Sem_050402_actual_parameters_052 | verify that in value parameters can be used as inout formal value parameters of test cases | Clause 5.4.2 | m | y |
| 235 | Sem_050402_actual_parameters_053 | verify that out value parameters can be used as inout formal value parameters of test cases | Clause 5.4.2 | m | y |
| 236 | Sem_050402_actual_parameters_054 | verify that inout value parameters can be used as inout 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 inout 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 inout 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 |

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| 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 in 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 out 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 inout 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 in 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 out 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 inout parameters can be used as in formal template parameters of functions | Clause 5.4.2 | m | y |

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| 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 in 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 out 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 inout 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 |

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| 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 in 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 out 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 inout 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 in value parameters can be used as in formal template parameters of altsteps | Clause 5.4.2 | m | y |

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| 273 | Sem_050402_actual_parameters_091 | verify that out 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 inout 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 in 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 out 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 inout 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 |

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| 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 in 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 out 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 inout 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 in parameters can be used as in formal template parameters of test cases | Clause 5.4.2 | m | y |

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| 293 | Sem_050402_actual_parameters_111 | verify that template out 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 inout 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 in 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 out 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 inout 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 |

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| 302 | Sem_050402_actual_parameters_120 | verify that template in 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 out 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 inout 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 in 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 out 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 inout parameters can be used as out formal template parameters of test cases | Clause 5.4.2 | m | y |

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| 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 inout formal template parameters of functions | Clause 5.4.2 | m | y |
| 314 | Sem_050402_actual_parameters_132 | verify that template in parameters can be used as inout formal template parameters of functions | Clause 5.4.2 | m | y |
| 315 | Sem_050402_actual_parameters_133 | verify that template out parameters can be used as inout formal template parameters of functions | Clause 5.4.2 | m | y |
| 316 | Sem_050402_actual_parameters_134 | verify that template inout parameters can be used as inout 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 inout 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 inout 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 inout formal template parameters of altsteps | Clause 5.4.2 | m | y |

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| 320 | Sem_050402_actual_parameters_138 | verify that template in parameters can be used as inout formal template parameters of altsteps | Clause 5.4.2 | m | y |
| 321 | Sem_050402_actual_parameters_139 | verify that template out parameters can be used as inout formal template parameters of altsteps | Clause 5.4.2 | m | y |
| 322 | Sem_050402_actual_parameters_140 | verify that template inout parameters can be used as inout 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 inout 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 inout 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 inout formal template parameters of test cases | Clause 5.4.2 | m | y |
| 326 | Sem_050402_actual_parameters_144 | verify that template in parameters can be used as inout formal template parameters of test cases | Clause 5.4.2 | m | y |
| 327 | Sem_050402_actual_parameters_145 | verify that template out parameters can be used as inout formal template parameters of test cases | Clause 5.4.2 | m | y |
| 328 | Sem_050402_actual_parameters_146 | verify that template inout parameters can be used as inout formal template parameters of test cases | Clause 5.4.2 | m | y |

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| 329 | Sem_050402_actual_parameters_147 | verify that template variable element reference can be used as inout 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 inout 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 in 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 in 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 out 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 out 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 inout 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 inout formal template parameters | Clause 5.4.2 | m | y |

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| 337 | Sem_050402_actual_parameters_155 | verify that out 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 out 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|----------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 out 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 inout 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 in 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 out 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 inout 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 out 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 inout 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 in 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 out 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 inout 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 out 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 out 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 out 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

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|------------------------------------|--------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|------------------------------------|----------------------------------|---------------------------|--------|---------|
| 1 | NegSyn_060100_SimpleBasicTypes_001 | Assign float to integer values | Clause 6.1.0 | m | y |
| 2 | NegSyn_060100_SimpleBasicTypes_002 | Assign boolean to integer values | Clause 6.1.0 | m | y |
| 3 | NegSyn_060100_SimpleBasicTypes_003 | Assign integer to float values | Clause 6.1.0 | m | y |
| 4 | NegSyn_060100_SimpleBasicTypes_004 | Assign boolean to float values | Clause 6.1.0 | m | y |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|------------------------------------|----------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-------------------------|-------------------------------------|---------------------------|--------|---------|
| 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

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|------------------------------------------|-----------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|---------------------------------------|---------------------------------------------------------|---------------------------|--------|---------|
| 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

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|----------------------------------|------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|----------------------------------|------------------------------------------------|---------------------------|--------|---------|
| 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

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|---------------------------------|--------------------------------------------------------------------------|---------------------------|--------|---------|
| 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

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-----------------------------|--------------------------------------------------------------------|---------------------------|--------|---------|
| 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 cahrstring with inclusive bounds. | Clause 6.1.2.3 | m | y |
| 22 | Sem_06010203_Ranges_005 | Assign values to range restricted cahrstring with exclusive bounds. | Clause 6.1.2.3 | m | y |
| 23 | Sem_06010203_Ranges_006 | Assign values to range restricted cahrstring 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

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|------------------------------------------|------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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_StringLength_Restrict_001 | Assign values to list of types restricted bitstring. | Clause 6.1.2.4 | m | y |
| 12 | Sem_06010204_StringLength_Restrict_002 | Assign values to list of types restricted hexstring. | Clause 6.1.2.4 | m | y |
| 13 | Sem_06010204_StringLength_Restrict_003 | Assign values to list of types restricted octetstring. | Clause 6.1.2.4 | m | y |
| 14 | Sem_06010204_StringLength_Restrict_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 @nocase 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 @nocase 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_0601020602_StringMixing_001 | Assign values to mixed restricted character strings. | Clause 6.1.2.6.2 | m | y |
| 8 | Sem_0601020602_StringMixing_002 | Assign values to mixed restricted character strings. | Clause 6.1.2.6.2 | m | y |
| 9 | Sem_0601020602_StringMixing_003 | Assign values to mixed restricted character strings. | Clause 6.1.2.6.2 | m | y |
| 10 | Sem_0601020602_StringMixing_004 | Assign values to mixed restricted bit strings. | Clause 6.1.2.6.2 | m | y |
| 11 | Sem_0601020602_StringMixing_005 | Assign values to mixed restricted hex strings. | Clause 6.1.2.6.2 | m | y |
| 12 | Sem_0601020602_StringMixing_006 | Assign values to mixed restricted octet strings. | Clause 6.1.2.6.2 | m | y |
| 13 | Sem_0601020602_StringMixing_007 | Assign values to pattern restricted character strings using @nocase 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|--------------------------|------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 implicit omit 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 implicit omit attribute are correctly handled | Clause 6.2.1 | m | y |
| 5 | Sem_060201_RecordTypeValues_003 | Assignments with implicit omit 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 implicit omit attribute are correctly handled | Clause 6.2.1 | m | y |
| 11 | Sem_060202_SetTypeValues_006 | Assignments with implicit omit attribute are correctly handled | Clause 6.2.1 | m | y |
| 12 | Sem_060202_SetTypeValues_007 | Assignments with implicit omit 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|---------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 assignement | 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 assignement | Clause 6.2.1.1 | m | y |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|----------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|----------------------------|------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|------------------------------|-----------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|--------------------------|-------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|-------------|------------------------|----------------------------------------------------------------------------------|----------------------------------|---------------|----------------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-----------------------|---------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 null 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 address 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 map 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 unmap clauses | Clause 6.2.9 | m | n |
| 9 | Sem_060209_CommunicationPortTypes_004 | Map and unmap param and local port address are allowed in a testcase block | Clause 6.2.9 | m | n |
| 10 | Sem_060209_CommunicationPortTypes_005 | Parameter MessageType 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 receive 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 receive 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 sender 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 null 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|----------------------------------------|-------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-------------------------------------|------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 runs on clauses | Clause 6.3.3 | m | y |
| 4 | NegSem_0603_03_component_types_004 | Ensure that the IUT correctly handles component compatibility of mtc and runs on clause | Clause 6.3.3 | m | y |
| 5 | NegSem_0603_03_component_types_005 | Ensure that the IUT correctly handles component compatibility of system and runs on clause | Clause 6.3.3 | m | y |
| 6 | NegSem_0603_03_component_types_006 | Ensure that the IUT correctly handles component compatibility of different system 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 runs on clauses | Clause 6.3.3 | m | n |
| 10 | Sem_060303_component_types_004 | Ensure that the IUT correctly handles component compatibility of mtc and runs on clause | Clause 6.3.3 | m | y |
| 11 | Sem_060303_component_types_005 | Ensure that the IUT correctly handles component compatibility of system and runs on clause | Clause 6.3.3 | m | y |
| 12 | Sem_060303_component_types_006 | Ensure that the IUT correctly handles component compatibility of different system 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 send 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 receive operation | Clause 6.3.4 | m | n |
| 3 | NegSem_060304_compatibility_of_communication_operations_003 | compatible but not strongly typed value in raise operation | Clause 6.3.4 | m | n |
| 4 | NegSem_060304_compatibility_of_communication_operations_004 | compatible but not strongly typed value in raise operation | Clause 6.3.4 | m | n |
| 5 | NegSem_060304_compatibility_of_communication_operations_005 | compatible but not strongly typed value in trigger 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 return 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|----------------------|-----------------------------------------------------|---------------------------|--------|---------|
| 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

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-----------------------------------------|--------------------------------------------------------------|---------------------------|--------|---------|
| 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 mod y arithmetic operator y is non-zero positive number | Clause 7.1.1 | m | y |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|---------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|------------------------------------|------------------------------------------------------|---------------------------|--------|---------|
| 36 | Sem_070101_ArithmeticOperators_029 | Arithmetic operators can handle special float values | Clause 7.1.1 | m | y |
| 37 | Sem_070101_ArithmeticOperators_030 | Arithmetic operators can handle special float values | Clause 7.1.1 | m | y |
| 38 | Sem_070101_ArithmeticOperators_031 | Arithmetic operators can handle special float values | Clause 7.1.1 | m | y |
| 39 | Sem_070101_ArithmeticOperators_032 | Arithmetic operators can handle special float values | Clause 7.1.1 | m | y |
| 40 | Sem_070101_ArithmeticOperators_033 | Arithmetic operators can handle special float values | Clause 7.1.1 | m | y |
| 41 | Sem_070101_ArithmeticOperators_034 | Arithmetic operators can handle special float values | Clause 7.1.1 | m | y |
| 42 | Sem_070101_ArithmeticOperators_035 | Arithmetic operators can handle special float values | Clause 7.1.1 | m | y |
| 43 | Sem_070101_ArithmeticOperators_036 | Arithmetic operators can handle special float values | Clause 7.1.1 | m | y |
| 44 | Sem_070101_ArithmeticOperators_037 | Arithmetic operators can handle special float values | Clause 7.1.1 | m | y |
| 45 | Sem_070101_ArithmeticOperators_038 | Arithmetic operators can handle special float values | Clause 7.1.1 | m | y |
| 46 | Sem_070101_ArithmeticOperators_039 | Arithmetic operators can handle special float values | Clause 7.1.1 | m | y |
| 47 | Sem_070101_ArithmeticOperators_040 | Arithmetic operators can handle special float values | Clause 7.1.1 | m | y |
| 48 | Sem_070101_ArithmeticOperators_041 | Arithmetic operators can handle special float values | Clause 7.1.1 | m | y |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|------------------------------------|---------------------------------------------------------------|---------------------------|--------|---------|
| 49 | Sem_070101_ArithmeticOperators_042 | Arithmetic operators can handle special float values | Clause 7.1.1 | m | y |
| 50 | Sem_070101_ArithmeticOperators_043 | Arithmetic operators can handle special float values | Clause 7.1.1 | m | y |
| 51 | Sem_070101_ArithmeticOperators_044 | Arithmetic operators can handle special float values | Clause 7.1.1 | m | y |
| 52 | Sem_070101_ArithmeticOperators_045 | Arithmetic operators can handle special float values | Clause 7.1.1 | m | y |
| 53 | Sem_070101_ArithmeticOperators_046 | Arithmetic operators can handle special float values | Clause 7.1.1 | m | y |
| 54 | Sem_070101_ArithmeticOperators_047 | Arithmetic operators can handle special float values | Clause 7.1.1 | m | y |
| 55 | Sem_070101_ArithmeticOperators_048 | Arithmetic operators can handle special float values | Clause 7.1.1 | m | y |
| 56 | Sem_070101_ArithmeticOperators_049 | Arithmetic operators can handle special float values | Clause 7.1.1 | m | y |
| 57 | Sem_070101_ArithmeticOperators_050 | Arithmetic operators can handle special float values | Clause 7.1.1 | m | y |
| 58 | Sem_070101_ArithmeticOperators_051 | Arithmetic operators can handle special float values | Clause 7.1.1 | m | y |
| 59 | Syn_070101_ArithmeticOperators_001 | The addition of two integers in a constant is accepted. | Clause 7.1.1 | m | y |
| 60 | Syn_070101_ArithmeticOperators_002 | The subtraction of two integers in a constant is accepted. | Clause 7.1.1 | m | y |
| 61 | Syn_070101_ArithmeticOperators_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 null is evaluated correctly | Clause 7.1.3 | m | n |
| 2 | Sem_070101_ArithmeticOperators_052 | The not equal to operator on address with value null 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|---------------------------------------|----------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|------------------------------------|-------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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_ShiftOperators_001 | The shift left operator works as expected on bitstrings. | Clause 7.1.6 | m | y |
| 2 | Sem_070106_ShiftOperators_002 | The shift left operator works as expected on hexstrings. | Clause 7.1.6 | m | y |
| 3 | Sem_070106_ShiftOperators_003 | The shift right operator works as expected on bitstrings. | Clause 7.1.6 | m | y |
| 4 | Sem_070106_ShiftOperators_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_RotateOperators_001 | The rotate left operator works as expected on bitstrings. | Clause 7.1.7 | m | y |
| 2 | Sem_070107_RotateOperators_002 | The rotate left operator works as expected on hexstrings. | Clause 7.1.7 | m | y |
| 3 | Sem_070107_RotateOperators_003 | The rotate right operator works as expected on bitstrings. | Clause 7.1.7 | m | y |
| 4 | Sem_070107_RotateOperators_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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|---------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 6 | NegSem_0802 0301_General FormatOfImport_008 | Verify that identifiers of module parameter types are not imported together with module parameters | Clause 8.2.3.1 | m | n |
| 7 | NegSem_0802 0301_General FormatOfImport_009 | Verify that identifiers of constant types are not imported together with constants | Clause 8.2.3.1 | m | n |
| 8 | NegSem_0802 0301_General FormatOfImport_010 | Verify that identifiers of field types are not imported together with structured types | Clause 8.2.3.1 | m | n |
| 9 | NegSem_0802 0301_General FormatOfImport_011 | Verify that identifiers of message types are not imported together with port types | Clause 8.2.3.1 | m | n |
| 10 | NegSem_0802 0301_General FormatOfImport_012 | Verify that identifiers of signatures are not imported together with port types | Clause 8.2.3.1 | m | n |
| 11 | NegSem_0802 0301_General FormatOfImport_013 | Verify that identifiers of constant types are not imported together with component types | Clause 8.2.3.1 | m | n |
| 12 | NegSem_0802 0301_General FormatOfImport_014 | Verify that identifiers of variable types are not imported together with component types | Clause 8.2.3.1 | m | n |
| 13 | NegSem_0802 0301_General FormatOfImport_015 | Verify that identifiers of port types are not imported together with component types | Clause 8.2.3.1 | m | n |
| 14 | NegSem_0802 0301_General FormatOfImport_016 | Verify that identifiers of parameter types are not imported together with signatures | Clause 8.2.3.1 | m | n |
| 15 | NegSem_0802 0301_General FormatOfImport_017 | Verify that identifiers of return types are not imported together with signatures | Clause 8.2.3.1 | m | n |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|---------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 16 | NegSem_0802 0301_General FormatOfImport_018 | Verify that identifiers of exception types are not imported together with signatures | Clause 8.2.3.1 | m | n |
| 17 | NegSem_0802 0301_General FormatOfImport_019 | Verify that identifiers of template types are not imported together with data templates | Clause 8.2.3.1 | m | n |
| 18 | NegSem_0802 0301_General FormatOfImport_020 | Verify that identifiers of parameter types are not imported together with data templates | Clause 8.2.3.1 | m | n |
| 19 | NegSem_0802 0301_General FormatOfImport_021 | Verify that identifiers of constants are not imported together with data templates | Clause 8.2.3.1 | m | n |
| 20 | NegSem_0802 0301_General FormatOfImport_022 | Verify that identifiers of module parameters are not imported together with data templates | Clause 8.2.3.1 | m | n |
| 21 | NegSem_0802 0301_General FormatOfImport_023 | Verify that identifiers of functions are not imported together with data templates | Clause 8.2.3.1 | m | n |
| 22 | NegSem_0802 0301_General FormatOfImport_024 | Verify that identifiers of signatures are not imported together with signature templates | Clause 8.2.3.1 | m | n |
| 23 | NegSem_0802 0301_General FormatOfImport_025 | Verify that identifiers of constants are not imported together with signature templates | Clause 8.2.3.1 | m | n |
| 24 | NegSem_0802 0301_General FormatOfImport_026 | Verify that identifiers of module parameters are not imported together with signature templates | Clause 8.2.3.1 | m | n |
| 25 | NegSem_0802 0301_General FormatOfImport_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 (runs on) 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 (system) 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 import 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 import clause | Clause 8.2.3.1 | m | n |
| 39 | NegSyn_08020301_GeneralFormatOfImport_001 | import statement cannot be used in test case blocks | Clause 8.2.3.1 | m | y |
| 40 | NegSyn_08020301_GeneralFormatOfImport_002 | import 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 import 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 import 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 except 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 const import is not removed by an import covering the same definition with an except. | Clause 8.2.3.4 | m | n |
| 7 | Sem_08020304_ImportingDefinitionsOfTheSameKind_003 | A previously valid const import is not removed by a second import 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 import with except. | Clause 8.2.3.5 | m | n |
| 2 | NegSem_08020305_ImportingAllDefinitionsOfAModule_002 | The constant is not visible after import with except. | 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 import statements works for import all. | Clause 8.2.3.7 | m | y |
| 2 | NegSem_08020307_ImportingOfImportStatementsFromT3Modules_002 | The import of import 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 import 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 execute 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-------------------------------------|-------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-------------------------------------|---------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-------------------------------------|------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 null 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 null shall cause an error | Clause 10 | m | n |
| 6 | Sem_10_Constants_001 | Assign and read constants | Clause 10 | m | y |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|-------------|------------------------|-----------------------------------------------------|----------------------------------|---------------|----------------|
| 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 null 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 null 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 null 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 null 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_level_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 timer declaration syntax - reject single timer instance initialized with array | Clause 12 | m | y |
| 7 | NegSem_12_to_plevel_timer_007 | Ensure timer declaration syntax – reject array initialization with wrong number of initializers | Clause 12 | m | y |
| 8 | NegSem_12_to_plevel_timer_008 | Ensure timer declaration syntax – 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 timer declaration syntax | Clause 12 | m |
| y | | 11 | NegSyn_12_to_plevel_timer_003 | Ensure timer declaration syntax | Clause 12 |
| m | y | | 12 | NegSyn_12_toplevel_timer_004 | Ensure timer declaration syntax |

| 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 timer declaration syntax | Clause 12 | m | y |
| 26 | Syn_12_toplevel_timer_002 | Ensure timer array declaration 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 timer array initialization 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 in 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 call and getreply are accepted. | Clause 15.2 | m | y |
| 7 | Syn_1502_DeclaringSignatureTemplates_004 | The raise and catch 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 send 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 send 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 send 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

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 tamplate 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|-------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------|----------------|
| 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 ifpresent 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 null 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 null 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 18 | Sem_150603_R 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_R 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_R referencingRecordOfAndSetElements_005 | Access outside permutation fields is allowed and works as expected. | Clause 15.6.3 | m | y |
| 21 | Sem_150603_R 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_R 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

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|----------------------------------------------------|--------------------------------------------|---------------------------|--------|---------|
| 1 | NegSem_150604_ReferencingSignatureParameters_001 | Test modification of signature parameters. | Clause 15.6.4 | m | n |
| 2 | Sem_150604_R 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 ifpresent 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 null 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|------------------------------------------------------------|----------------------------------------------------------------------|---------------------------|--------|---------|
| 9 | Sem_150605_R referencing_un ion_alternativ es_003 | Template variables allow referencing with an Anyvalue union template | Clause 15.6.5 | m | y |
| 10 | Sem_150605_R referencing_un ion_alternativ es_004 | Template variables allow referencing with an Anyvalue union template | Clause 15.6.5 | m | y |

5.91. Template restrictions

Table 90. Template restrictions

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|----------------------------------------------|-----------------------------------------------------------|---------------------------|--------|---------|
| 1 | NegSem_1508_ TemplateRestr ictions_001 | Template(omit) is rejected with anyvalue(?). | Clause 15.8 | m | y |
| 2 | NegSem_1508_ TemplateRestr ictions_002 | Template(omit) is rejected with setof template. | Clause 15.8 | m | y |
| 3 | NegSem_1508_ TemplateRestr ictions_003 | Template(omit) is rejected with anyvalueornone(*) | Clause 15.8 | m | y |
| 4 | NegSem_1508_ TemplateRestr ictions_004 | Template(omit) is rejected with value ranges. | Clause 15.8 | m | y |
| 5 | NegSem_1508_ TemplateRestr ictions_005 | Template(omit) is rejected with supersets. | Clause 15.8 | m | y |
| 6 | NegSem_1508_ TemplateRestr ictions_006 | Template(omit) is rejected with subsets. | Clause 15.8 | m | y |
| 7 | NegSem_1508_ TemplateRestr ictions_007 | Template(omit) is rejected with patterns. | Clause 15.8 | m | y |
| 8 | NegSem_1508_ TemplateRestr ictions_008 | Template(omit) is rejected with anyelement inside values. | Clause 15.8 | m | y |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|--------------------------------------|-------------------------------------------------------------------|---------------------------|--------|---------|
| 9 | NegSem_1508_TemplateRestrictions_009 | Template(omit) is rejected with anyelement or none 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 anyvalue or none(*). | 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|--------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|--------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|--------------------------------------|---------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|--------------------------------------|----------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-----------------------------------|---------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-----------------------------------|--------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 match operation refuses two templates as actual parameters. | Clause 15.9 | m | y |
| 2 | NegSem_1509_MatchOperation_002 | The match operation refuses not initialized operands | Clause 15.9 | m | n |
| 3 | NegSem_1509_MatchOperation_003 | The match 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 match 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 match 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 match operation works correctly on records in the positive case. | Clause 15.9 | m | y |
| 7 | Sem_1509_MatchOperation_004 | The match operation works correctly on records in the negative case. | Clause 15.9 | m | y |
| 8 | Sem_1509_MatchOperation_005 | The match operation works correctly if the types are incompatible. | Clause 15.9 | m | n |
| 9 | Sem_1509_MatchOperation_006 | The match operation works correctly on records with optional fields in the positive case. | Clause 15.9 | m | y |
| 10 | Sem_1509_MatchOperation_007 | The match operation works correctly on sets in the positive case. | Clause 15.9 | m | y |
| 11 | Sem_1509_MatchOperation_008 | The match operation works correctly on sets in the negative case. | Clause 15.9 | m | y |
| 12 | Sem_1509_MatchOperation_009 | The match operation works correctly if the set types are incompatible. | Clause 15.9 | m | n |
| 13 | Sem_1509_MatchOperation_010 | The match 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 expression -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 expression -parameter. | Clause 15.9 | m | y |
| 16 | Sem_1509_MatchOperation_013 | If the expression -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 expression -parameter | Clause 15.9 | m | y |
| 17 | Sem_1509_MatchOperation_014 | The match operation works correctly with enums | Clause 15.9 | m | n |
| 18 | Sem_1509_MatchOperation_015 | The match operation works correctly with enums | Clause 15.9 | m | y |
| 19 | Sem_1509_MatchOperation_016 | The match 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 valueof function works correctly on omit. | Clause 15.10 | m | y |
| 2 | NegSem_1510_ValueOfOperation_002 | The valueof function works correctly on templates with wildcards. | Clause 15.10 | m | y |
| 3 | NegSem_1510_ValueOfOperation_003 | The valueof function works correctly on regular value templates. | Clause 15.10 | m | y |
| 4 | NegSem_1510_ValueOfOperation_004 | The valueof function works correctly on range templates. | Clause 15.10 | m | y |
| 5 | NegSem_1510_ValueOfOperation_005 | check that runtime error occurs if valueof is applied to uninitialized template | Clause 15.10 | m | y |
| 6 | NegSem_1510_ValueOfOperation_006 | check that runtime error occurs if valueof is applied to partially initialized template | Clause 15.10 | m | y |
| 7 | Sem_1510_ValueOfOperation_001 | The valueof 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|---------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|----------------------------------------|------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 encvalue 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 encvalue 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 encvalue 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 decvalue 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|-------------|--------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------|---------------|----------------|
| 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 encvalue function works correctly (as specified in Annex C.5.1) | Clause 16.1.2 | m | y |
| 50 | Sem_160102_p redefined_functions_017 | Predefined decvalue function performs full decoding correctly | Clause 16.1.2 | m | y |
| 51 | Sem_160102_p redefined_functions_018 | Predefined decvalue function performs decoding if there are more bits than needed | Clause 16.1.2 | m | y |
| 52 | Sem_160102_p redefined_functions_019 | Predefined decvalue function works properly in case of decoding failure | Clause 16.1.2 | m | n |
| 53 | Sem_160102_p redefined_functions_020 | Predefined decvalue 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|--------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|--------------------------------------|------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|--------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|--------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 encvalue_unichar function works properly in case of encoding universal charstring | Clause 16.1.2 | m | y |
| 97 | Sem_160102_p redefined_functions_064 | Predefined encvalue_unichar function works properly in case of encoding universal charstring | Clause 16.1.2 | m | y |
| 98 | Sem_160102_p redefined_functions_065 | Predefined decvalue function works properly in case of encoding universal charstring | Clause 16.1.2 | m | y |
| 99 | Sem_160102_p redefined_functions_066 | Predefined encvalue_unichar function works properly in case of encoding universal charstring | Clause 16.1.2 | m | y |
| 100 | Sem_160102_p redefined_functions_067 | Predefined encvalue_unichar function works properly in case of encoding universal charstring | Clause 16.1.2 | m | y |
| 101 | Sem_160102_p redefined_functions_068 | Predefined encvalue_unichar 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 encvalue_unichar function works properly in case of encoding universal charstring | Clause 16.1.2 | m | y |
| 103 | Sem_160102_p redefined_functions_070 | Predefined decvalue_unichar function works properly | Clause 16.1.2 | m | y |
| 104 | Sem_160102_p redefined_functions_071 | Predefined decvalue_unichar function works properly | Clause 16.1.2 | m | y |
| 105 | Sem_160102_p redefined_functions_072 | Predefined decvalue_unichar function works properly | Clause 16.1.2 | m | y |
| 106 | Sem_160102_p redefined_functions_073 | Predefined decvalue_unichar function works properly | Clause 16.1.2 | m | y |
| 107 | Sem_160102_p redefined_functions_074 | Predefined decvalue_unichar function works properly | Clause 16.1.2 | m | y |
| 108 | Sem_160102_p redefined_functions_075 | Predefined decvalue_unichar function works properly | Clause 16.1.2 | m | y |
| 109 | Sem_160102_p redefined_functions_076 | Predefined decvalue_unichar function works properly | Clause 16.1.2 | m | y |
| 110 | Sem_160102_p redefined_functions_077 | Predefined decvalue_unichar function works properly | Clause 16.1.2 | m | y |
| 111 | Sem_160102_p redefined_functions_078 | Predefined decvalue_unichar function works properly | Clause 16.1.2 | m | y |
| 112 | Sem_160102_p redefined_functions_079 | Predefined decvalue_unichar function works properly | Clause 16.1.2 | m | y |
| 113 | Sem_160102_p redefined_functions_080 | Predefined decvalue and decvalue_unichar 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 encvalue_unichar function works properly in case of encoding universal charstring | Clause 16.1.2 | m | y |
| 132 | Sem_160102_p redefined_functions_099 | That predefined encvalue_unichar 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 create 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 component.start 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 component.stop 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 kill 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 component.running 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 alive 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 done 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 killed 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 port.start 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 port.stop 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 halt 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 clear 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 checkstate 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 send 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 receive 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 trigger 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 call 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 getcall 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 reply 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 getreply 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 raise 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 catch 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 check 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 connect 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 disconnect 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 map 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 unmap 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 action 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 timer.start 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 timer.stop 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 timer.running 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 read 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 timeout 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 rnd 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 out 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 inout parameter (in templates) | Clause 16.1.4 | m | n |
| 43 | NegSem_160104_invoking_functions_from_specific_places_043 | verify that the setverdict 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 activate 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 deactivate 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 create 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 component.start 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 component.stop 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 kill 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 component.running 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 alive 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 done 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 killed 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 port.start 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 port.stop 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 halt 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 clear 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 checkstate 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 send 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 receive 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 trigger 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 call 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 getcall 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 reply 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 getreply 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 raise 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 catch 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 check 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 connect 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 disconnect 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 map 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 unmap 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 action 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 timer.start 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 timer.stop 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 timer.running 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 read 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 timeout 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 rnd 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 out 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 inout parameter (in template fields) | Clause 16.1.4 | m | n |
| 84 | NegSem_160104_invoking_functions_from_specific_places_084 | verify that the setverdict 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 activate 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 deactivate 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 create 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 component.start 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 component.stop operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 90 | NegSem_160104_invoking_functions_from_specific_places_090 | verify that the kill operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 91 | NegSem_160104_invoking_functions_from_specific_places_091 | verify that the component.running operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 92 | NegSem_160104_invoking_functions_from_specific_places_092 | verify that the alive operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 93 | NegSem_160104_invoking_functions_from_specific_places_093 | verify that the done operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 94 | NegSem_160104_invoking_functions_from_specific_places_094 | verify that the killed operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 95 | NegSem_160104_invoking_functions_from_specific_places_095 | verify that the port.start operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 96 | NegSem_160104_invoking_functions_from_specific_places_096 | verify that the port.stop 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 |
|------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 97 | NegSem_160104_invoking_functions_from_specific_places_097 | verify that the halt operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 98 | NegSem_160104_invoking_functions_from_specific_places_098 | verify that the clear operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 99 | NegSem_160104_invoking_functions_from_specific_places_099 | verify that the checkstate operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 100 | NegSem_160104_invoking_functions_from_specific_places_100 | verify that the send operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 101 | NegSem_160104_invoking_functions_from_specific_places_101 | verify that the receive operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 102 | NegSem_160104_invoking_functions_from_specific_places_102 | verify that the trigger operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 103 | NegSem_160104_invoking_functions_from_specific_places_103 | verify that the call operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 104 | NegSem_160104_invoking_functions_from_specific_places_104 | verify that the getcall 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 |
|------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 105 | NegSem_160104_invoking_functions_from_specific_places_105 | verify that the reply operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 106 | NegSem_160104_invoking_functions_from_specific_places_106 | verify that the getreply operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 107 | NegSem_160104_invoking_functions_from_specific_places_107 | verify that the raise operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 108 | NegSem_160104_invoking_functions_from_specific_places_108 | verify that the catch operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 109 | NegSem_160104_invoking_functions_from_specific_places_109 | verify that the check operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 110 | NegSem_160104_invoking_functions_from_specific_places_110 | verify that the connect operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 111 | NegSem_160104_invoking_functions_from_specific_places_111 | verify that the disconnect operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 112 | NegSem_160104_invoking_functions_from_specific_places_112 | verify that the map 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 |
|------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 113 | NegSem_160104_invoking_functions_from_specific_places_113 | verify that the unmap operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 114 | NegSem_160104_invoking_functions_from_specific_places_114 | verify that the action operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 115 | NegSem_160104_invoking_functions_from_specific_places_115 | verify that the timer.start operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 116 | NegSem_160104_invoking_functions_from_specific_places_116 | verify that the timer.stop operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 117 | NegSem_160104_invoking_functions_from_specific_places_117 | verify that the timer.running operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 118 | NegSem_160104_invoking_functions_from_specific_places_118 | verify that the read operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 119 | NegSem_160104_invoking_functions_from_specific_places_119 | verify that the timeout 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 |
|------|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 rnd 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 out 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 inout parameter (in in-line templates) | Clause 16.1.4 | m | y |
| 125 | NegSem_160104_invoking_functions_from_specific_places_125 | verify that the setverdict 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 activate operation cannot be used in a function called during receiving operation (in in-line templates) | Clause 16.1.4 | m | y |
| 127 | NegSem_160104_invoking_functions_from_specific_places_127 | verify that the deactivate operation cannot be used in a function called during receiving operation (in in-line 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 out parameter (in in-line 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 inout parameter (in in-line templates) | Clause 16.1.4 | m | y |
| 130 | NegSem_160104_invoking_functions_from_specific_places_130 | verify that the create 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 component.start 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 component.stop 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 kill 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 component.running 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 alive 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 done 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 killed 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 port.start 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 port.stop 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 halt 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 clear 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 checkstate 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 send 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 receive 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 trigger 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 call 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 getcall 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 reply 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 getreply 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 raise 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 catch 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 check 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 connect 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 disconnect 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 map 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 unmap 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 action 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 timer.start 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 timer.stop 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 timer.running 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 read 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 timeout 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 rnd 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 inout parameter (as actual parameters) | Clause 16.1.4 | m | y |
| 168 | NegSem_160104_invoking_functions_from_specific_places_168 | verify that the setverdict 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 activate 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 deactivate 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 inout parameter (as actual parameters) | Clause 16.1.4 | m | y |
| 173 | NegSem_160104_invoking_functions_from_specific_places_173 | verify that the create operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 174 | NegSem_160104_invoking_functions_from_specific_places_174 | verify that the component.start operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 175 | NegSem_160104_invoking_functions_from_specific_places_175 | verify that the component.stop operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 176 | NegSem_160104_invoking_functions_from_specific_places_176 | verify that the kill operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 177 | NegSem_160104_invoking_functions_from_specific_places_177 | verify that the component.running operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 178 | NegSem_160104_invoking_functions_from_specific_places_178 | verify that the alive operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 179 | NegSem_160104_invoking_functions_from_specific_places_179 | verify that the done operation cannot be used in guards of alt 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 killed operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 181 | NegSem_160104_invoking_functions_from_specific_places_181 | verify that the port.start operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 182 | NegSem_160104_invoking_functions_from_specific_places_182 | verify that the port.stop operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 183 | NegSem_160104_invoking_functions_from_specific_places_183 | verify that the halt operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 184 | NegSem_160104_invoking_functions_from_specific_places_184 | verify that the clear operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 185 | NegSem_160104_invoking_functions_from_specific_places_185 | verify that the checkstate operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 186 | NegSem_160104_invoking_functions_from_specific_places_186 | verify that the send operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 187 | NegSem_160104_invoking_functions_from_specific_places_187 | verify that the receive operation cannot be used in guards of alt 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 trigger operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 189 | NegSem_160104_invoking_functions_from_specific_places_189 | verify that the call operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 190 | NegSem_160104_invoking_functions_from_specific_places_190 | verify that the getcall operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 191 | NegSem_160104_invoking_functions_from_specific_places_191 | verify that the reply operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 192 | NegSem_160104_invoking_functions_from_specific_places_192 | verify that the getreply operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 193 | NegSem_160104_invoking_functions_from_specific_places_193 | verify that the raise operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 194 | NegSem_160104_invoking_functions_from_specific_places_194 | verify that the catch operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 195 | NegSem_160104_invoking_functions_from_specific_places_195 | verify that the check operation cannot be used in guards of alt 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 connect operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 197 | NegSem_160104_invoking_functions_from_specific_places_197 | verify that the disconnect operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 198 | NegSem_160104_invoking_functions_from_specific_places_198 | verify that the map operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 199 | NegSem_160104_invoking_functions_from_specific_places_199 | verify that the unmap operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 200 | NegSem_160104_invoking_functions_from_specific_places_200 | verify that the action operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 201 | NegSem_160104_invoking_functions_from_specific_places_201 | verify that the timer.start operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 202 | NegSem_160104_invoking_functions_from_specific_places_202 | verify that the timer.stop operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 203 | NegSem_160104_invoking_functions_from_specific_places_203 | verify that the timer.running operation cannot be used in guards of alt 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 read operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 205 | NegSem_160104_invoking_functions_from_specific_places_205 | verify that the timeout operation cannot be used in guards of alt 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 alt 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 alt statement cannot contain a component variable used as an actual out 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 alt statement cannot contain a component variable used as an actual inout parameter | Clause 16.1.4 | m | y |
| 209 | NegSem_160104_invoking_functions_from_specific_places_209 | verify that the activate operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 210 | NegSem_160104_invoking_functions_from_specific_places_210 | verify that the deactivate operation cannot be used in guards of alt statements | Clause 16.1.4 | m | y |
| 211 | NegSem_160104_invoking_functions_from_specific_places_211 | verify that a function called from a guard statement of an alt operation cannot contain out 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 create 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 component.start 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 component.stop 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 kill 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 component.running 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 alive 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 done 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 killed 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 port.start 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 port.stop 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 halt 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 clear 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 checkstate 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 send 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 receive 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 trigger 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 call 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 getcall 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 reply 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 getreply 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 raise 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 catch 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 check 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 connect 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 disconnect 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 map 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 unmap 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 action 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 timer.start 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 timer.stop 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 timer.running 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 read 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 timeout 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 rnd 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 altstep 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 altstep cannot contain a component variable used as an actual out 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 altstep cannot contain a component variable used as an actual inout parameter | Clause 16.1.4 | m | y |
| 250 | NegSem_160104_invoking_functions_from_specific_places_250 | verify that the setverdict 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 activate 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 deactivate 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 guard statement of an altstep cannot contain out parameters | Clause 16.1.4 | m | y |
| 254 | NegSem_160104_invoking_functions_from_specific_places_254 | verify that a function called from a guard statement of an altstep cannot contain inout parameters | Clause 16.1.4 | m | y |
| 255 | NegSem_160104_invoking_functions_from_specific_places_255 | verify that the create 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 component.start 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 component.stop 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 kill 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 component.running 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 alive 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 done 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 killed 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 port.start 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 port.stop 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 halt 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 clear 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 checkstate 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 send 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 receive 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 trigger 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 call 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 getcall 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 reply 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 getreply 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 raise 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 catch 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 check 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 connect 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 disconnect 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 map 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 unmap 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 action 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 timer.start 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 timer.stop 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 timer.running 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 read 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 timeout 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 rnd 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 out 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 inout parameter | Clause 16.1.4 | m | n |
| 293 | NegSem_160104_invoking_functions_from_specific_places_293 | verify that the setverdict 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 activate 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 deactivate 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 altstep local definitions cannot contain out parameters | Clause 16.1.4 | m | n |
| 297 | NegSem_160104_invoking_functions_from_specific_places_297 | verify that a function called in altstep altstep local definitions cannot contain inout 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 runs on 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 runs on clause can be started as component behaviour | Clause 16.2 | m | n |
| 11 | Sem_1602_toplevel_003 | Verify that altstep with a runs on clause can be started as component behaviour from a context without a runs on 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 system 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 assignment 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 assignment statements | Clause 19.1 | m | y |
| 3 | NegSem_1901_assignments_003 | The IUT properly evaluates assignment 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 assignment statements | Clause 19.1 | m | y |
| 8 | Sem_1901_assignments_001 | The IUT properly evaluates assignment 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 if-else statements | Clause 19.2 | m | y |
| 3 | Sem_1902_if_else_statement_002 | The IUT properly evaluates if-else 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 select-case statements | Clause 19.3 | m | y |
| 2 | Sem_190301_select_case_statement_002 | The IUT properly evaluates select-case statements | Clause 19.3 | m | y |
| 3 | Sem_190301_select_case_statement_003 | The IUT properly evaluates select-case statements | Clause 19.3 | m | y |
| 4 | Sem_190301_select_case_statement_004 | The IUT properly evaluates select-case statements | Clause 19.3 | m | y |
| 5 | Sem_190301_select_case_statement_005 | The IUT properly evaluates select-case statements | Clause 19.3 | m | y |
| 6 | Sem_190301_select_case_statement_006 | The IUT properly evaluates select-case 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 select-union 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 case statements | Clause 19.3.2 | m | y |
| 4 | NegSem_190302_select_union_statement_004 | verify that the same alternative cannot be used in two case 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 case statements (list item) | Clause 19.3.2 | m | y |
| 6 | NegSem_190302_select_union_statement_006 | verify that it is possible to use a select union 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 select union 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 select union 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 for statements | Clause 19.4 | m | y |
| 2 | Sem_1904_for_statement_001 | The IUT properly evaluates for statements | Clause 19.4 | m | y |
| 3 | Sem_1904_for_statement_002 | The IUT properly evaluates for statements | Clause 19.4 | m | y |
| 4 | Sem_1904_for_statement_003 | The IUT properly evaluates for 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 while 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 while statements | Clause 19.5 | m | y |
| 3 | Sem_1905_while_statement_002 | The IUT properly evaluates while statements | Clause 19.5 | m | y |
| 4 | Sem_1905_while_statement_003 | The IUT properly evaluates while 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 do-while statements | Clause 19.6 | m | y |
| 2 | Sem_1906_do_while_statement_001 | The IUT properly evaluates do-while statements | Clause 19.6 | m | y |
| 3 | Sem_1906_do_while_statement_002 | The IUT properly evaluates do-while statements | Clause 19.6 | m | y |
| 4 | Sem_1906_do_while_statement_003 | The IUT properly evaluates do-while 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 goto statements. | Clause 19.8 | m | y |
| 2 | NegSem_1908_goto_statement_002 | The IUT correctly handles goto statements. | Clause 19.8 | m | y |
| 3 | NegSem_1908_goto_statement_003 | The IUT correctly handles goto statements. | Clause 19.8 | m | y |
| 4 | Sem_1908_goto_statement_001 | The IUT correctly handles goto statements. | Clause 19.8 | m | y |
| 5 | Sem_1908_goto_statement_002 | The IUT correctly handles goto statements. | Clause 19.8 | m | y |
| 6 | Sem_1908_goto_statement_003 | The IUT correctly handles goto 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 stop 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 stop statements. | Clause 19.9 | m | y |
| 3 | Sem_1909_stop_statement_003 | stop statement in a function called from a PTC | Clause 19.9 | m | y |
| 4 | Sem_1909_stop_statement_004 | stop 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 return statements. | Clause 19.10 | m | y |
| 2 | Sem_1910_return_statement_001 | The IUT correctly handles return statements. | Clause 19.10 | m | y |
| 3 | Sem_1910_return_statement_002 | The IUT correctly handles return 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 log statements | Clause 19.11 | m | y |
| 2 | Sem_1911_log_statement_001 | The IUT properly evaluates log statements | Clause 19.11 | m | y |
| 3 | Sem_1911_log_statement_002 | The IUT properly evaluates log 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 log statements | Clause 19.11 | m | y |
| 5 | Sem_1911_log_statement_004 | The IUT properly evaluates log statements | Clause 19.11 | m | y |
| 6 | Sem_1911_log_statement_005 | The IUT properly evaluates log 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 continue 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 | Alt -statements are accepted. | Clause 20 | m | y |
| 2 | Syn_20_TopLevel_002 | Repeat in an alt -statement is accepted. | Clause 20 | m | y |
| 3 | Syn_20_TopLevel_003 | The interleave -statement is accepted. | Clause 20 | m | y |
| 4 | Syn_20_TopLevel_004 | Defaults and the activate statement is accepted. | Clause 20 | m | y |
| 5 | Syn_20_TopLevel_005 | Defaults and the activate 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_TheAltState ment_001 | dynamic error if a test component is completely blocked | Clause 20.2 | m | y |
| 2 | NegSem_2002_TheAltState ment_002 | create in guard statements | Clause 20.2 | m | n |
| 3 | NegSem_2002_TheAltState ment_003 | running (timer) in guard statements | Clause 20.2 | m | n |
| 4 | NegSem_2002_TheAltState ment_004 | running (component) in guard statements | Clause 20.2 | m | n |
| 5 | NegSem_2002_TheAltState ment_005 | alive in guard statements | Clause 20.2 | m | n |
| 6 | NegSem_2002_TheAltState ment_006 | activate in guard statements | Clause 20.2 | m | n |
| 7 | NegSem_2002_TheAltState ment_007 | create in alt branch event | Clause 20.2 | m | n |
| 8 | NegSem_2002_TheAltState ment_008 | running (timer) in alt branch event | Clause 20.2 | m | n |
| 9 | NegSem_2002_TheAltState ment_009 | running (component) in alt branch event | Clause 20.2 | m | n |
| 10 | NegSem_2002_TheAltState ment_010 | alive in alt branch event | Clause 20.2 | m | n |
| 11 | NegSem_2002_TheAltState ment_011 | create in alt branch event | Clause 20.2 | m | n |
| 12 | NegSem_2002_TheAltState ment_012 | create in altstep branch | Clause 20.2 | m | n |
| 13 | NegSem_2002_TheAltState ment_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_TheAltState ment_014 | running (component) in altstep branch | Clause 20.2 | m | n |
| 15 | NegSem_2002_TheAltState ment_015 | alive in altstep branch | Clause 20.2 | m | n |
| 16 | NegSem_2002_TheAltState ment_016 | create in altstep branch | Clause 20.2 | m | n |
| 17 | NegSem_2002_TheAltState ment_017 | verify that the create operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 18 | NegSem_2002_TheAltState ment_018 | verify that the component.start operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 19 | NegSem_2002_TheAltState ment_019 | verify that the component.stop operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 20 | NegSem_2002_TheAltState ment_020 | verify that the kill operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 21 | NegSem_2002_TheAltState ment_021 | verify that the component.running operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 22 | NegSem_2002_TheAltState ment_022 | verify that the alive operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|----------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 23 | NegSem_2002_TheAltState ment_023 | verify that the done operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 24 | NegSem_2002_TheAltState ment_024 | verify that the killed operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 25 | NegSem_2002_TheAltState ment_025 | verify that the port.start operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 26 | NegSem_2002_TheAltState ment_026 | verify that the port.stop operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 27 | NegSem_2002_TheAltState ment_027 | verify that the halt operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 28 | NegSem_2002_TheAltState ment_028 | verify that the clear operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 29 | NegSem_2002_TheAltState ment_029 | verify that the checkstate operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 30 | NegSem_2002_TheAltState ment_030 | verify that the send operation cannot be used in parameters of altsteps invoked from an alt 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 receive operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 32 | NegSem_2002_TheAltStatement_032 | verify that the trigger operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 33 | NegSem_2002_TheAltStatement_033 | verify that the call operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 34 | NegSem_2002_TheAltStatement_034 | verify that the getcall operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 35 | NegSem_2002_TheAltStatement_035 | verify that the reply operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 36 | NegSem_2002_TheAltStatement_036 | verify that the getreply operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 37 | NegSem_2002_TheAltStatement_037 | verify that the raise operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 38 | NegSem_2002_TheAltStatement_038 | verify that the catch operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 39 | NegSem_2002_TheAltState ment_039 | verify that the check operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 40 | NegSem_2002_TheAltState ment_040 | verify that the connect operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 41 | NegSem_2002_TheAltState ment_041 | verify that the disconnect operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 42 | NegSem_2002_TheAltState ment_042 | verify that the map operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 43 | NegSem_2002_TheAltState ment_043 | verify that the unmap operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 44 | NegSem_2002_TheAltState ment_044 | verify that the action operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 45 | NegSem_2002_TheAltState ment_045 | verify that the timer.start operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 46 | NegSem_2002_TheAltState ment_046 | verify that the timer.stop operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 47 | NegSem_2002_TheAltState ment_047 | verify that the timer.running operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 48 | NegSem_2002_TheAltState ment_048 | verify that the read operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 49 | NegSem_2002_TheAltState ment_049 | verify that the timeout operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 50 | NegSem_2002_TheAltState ment_050 | verify that a non-deterministic external function call cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 51 | NegSem_2002_TheAltState ment_051 | verify that the predefined rnd function cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 52 | NegSem_2002_TheAltState ment_052 | verify a function called in a guard of an altstep cannot contain an assignment of a component variable | Clause 20.2 | m | n |
| 53 | NegSem_2002_TheAltState ment_053 | verify a function called in a guard of an altstep cannot contain a component variable used as an actual out 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 altstep cannot contain a component variable used as an actual inout parameter | Clause 20.2 | m | n |
| 55 | NegSem_2002_TheAltStatement_055 | verify that the setverdict operation cannot be used in guard statements of altstep | Clause 20.2 | m | n |
| 56 | NegSem_2002_TheAltStatement_056 | verify that the activate operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 57 | NegSem_2002_TheAltStatement_057 | verify that the deactivate operation cannot be used in parameters of altsteps invoked from an alt branch | Clause 20.2 | m | n |
| 58 | NegSem_2002_TheAltStatement_058 | verify that a function used in a parameter of an altstep invoked from an alt 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 altstep invoked from an alt branch cannot contain inout parameters | Clause 20.2 | m | n |
| 60 | NegSem_2002_TheAltStatement_060 | verify that the read operation cannot be used in guard statements | Clause 20.2 | m | n |
| 61 | NegSem_2002_TheAltStatement_061 | verify that the checkstate operation cannot be used in guard statements | Clause 20.2 | m | n |
| 62 | NegSem_2002_TheAltStatement_062 | verify that the read operation cannot be used in alt 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 checkstate operation cannot be used in alt branch events (in inline templates) | Clause 20.2 | m | n |
| 64 | NegSem_2002_TheAltState ment_064 | verify that the read operation cannot be used in parameters of alt branch events | Clause 20.2 | m | n |
| 65 | NegSem_2002_TheAltState ment_065 | verify that the checkstate operation cannot be used in parameters of alt branch events | Clause 20.2 | m | n |
| 66 | NegSem_2002_TheAltState ment_066 | verify that the create operation cannot be used in alt branch events (in inline template) | Clause 20.2 | m | n |
| 67 | NegSem_2002_TheAltState ment_067 | verify that the component.running operation cannot be used in alt branch events (in templates) | Clause 20.2 | m | n |
| 68 | NegSem_2002_TheAltState ment_068 | verify that the alive operation cannot be used in alt branch events (in templates) | Clause 20.2 | m | n |
| 69 | NegSem_2002_TheAltState ment_069 | verify that the checkstate operation cannot be used in alt branch events (in templates) | Clause 20.2 | m | n |
| 70 | NegSem_2002_TheAltState ment_070 | verify that the timer.running operation cannot be used in alt branch events (in templates) | Clause 20.2 | m | n |
| 71 | NegSem_2002_TheAltState ment_071 | verify that the read operation cannot be used in alt 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_TheAltState ment_072 | verify that the activate operation cannot be used in alt branch events (in templates) | Clause 20.2 | m | n |
| 73 | NegSem_2002_TheAltState ment_073 | verify that the create operation cannot be used in alt branch events (in inline template) | Clause 20.2 | m | n |
| 74 | NegSem_2002_TheAltState ment_074 | verify that the component.running operation cannot be used in alt branch events (in template parameters) | Clause 20.2 | m | n |
| 75 | NegSem_2002_TheAltState ment_075 | verify that the alive operation cannot be used in alt branch events (in template parameters) | Clause 20.2 | m | n |
| 76 | NegSem_2002_TheAltState ment_076 | verify that the checkstate operation cannot be used in alt branch events (in template parameters) | Clause 20.2 | m | n |
| 77 | NegSem_2002_TheAltState ment_077 | verify that the timer.running operation cannot be used in alt branch events (in template parameters) | Clause 20.2 | m | n |
| 78 | NegSem_2002_TheAltState ment_078 | verify that the read operation cannot be used in alt branch events (in template parameters) | Clause 20.2 | m | n |
| 79 | NegSem_2002_TheAltState ment_079 | verify that the activate operation cannot be used in alt branch events (in template parameters) | Clause 20.2 | m | n |
| 80 | NegSem_2002_TheAltState ment_080 | verify that the create operation cannot be used in alt 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 component.running operation cannot be used in altstep declarations | Clause 20.2 | m | n |
| 82 | NegSem_2002_TheAltStatement_082 | verify that the alive operation cannot be used in altstep declarations | Clause 20.2 | m | n |
| 83 | NegSem_2002_TheAltStatement_083 | verify that the checkstate operation cannot be used in altstep declarations | Clause 20.2 | m | n |
| 84 | NegSem_2002_TheAltStatement_084 | verify that the timer.running operation cannot be used in altstep declarations | Clause 20.2 | m | n |
| 85 | NegSem_2002_TheAltStatement_085 | verify that the read operation cannot be used in altstep declarations | Clause 20.2 | m | n |
| 86 | NegSem_2002_TheAltStatement_086 | verify that the activate operation cannot be used in altstep declarations | Clause 20.2 | m | n |
| 87 | Sem_2002_TheAltStatement_001 | The alt -statement works as expected (loopback case). | Clause 20.2 | m | y |
| 88 | Sem_2002_TheAltStatement_002 | The alt -statement with a guard works as expected (loopback case). | Clause 20.2 | m | y |
| 89 | Sem_2002_TheAltStatement_003 | The alt -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 optional 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 alt -statement is triggered as expected (loopback case). | Clause 20.2 | m | y |
| 95 | Sem_2002_TheAltStatement_009 | The killed-block in an alt -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 alt -statement (loopback case). | Clause 20.2 | m | y |
| 98 | Sem_2002_TheAltStatement_012 | alt statements are correctly handled for dynamically mapped ports | Clause 20.2 | m | y |
| 99 | Sem_2002_TheAltStatement_013 | alt 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 repeat statements | Clause 20.3 | m | y |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|------------------------------------|------------------------------------------------------|---------------------------|--------|---------|
| 2 | Sem_2003_the_repeat_state ment_001 | The IUT correctly processes repeat statements | Clause 20.3 | m | y |
| 3 | Sem_2003_the_repeat_state ment_002 | repeat in procedure call block | Clause 20.3 | m | n |
| 4 | Sem_2003_the_repeat_state ment_003 | repeat in alstep branch of alt statements | Clause 20.3 | m | y |
| 5 | Sem_2003_the_repeat_state ment_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_InterleaveStat ement_001 | Validate that interleave statements are properly handled. | Clause 20.4 | m | n |
| 2 | NegSem_2004_InterleaveStat ement_002 | while loop inside interleave | Clause 20.4 | m | n |
| 3 | NegSem_2004_InterleaveStat ement_003 | do-while loop inside interleave | Clause 20.4 | m | n |
| 4 | NegSem_2004_InterleaveStat ement_004 | goto inside interleave | Clause 20.4 | m | y |
| 5 | NegSem_2004_InterleaveStat ement_005 | activate call inside interleave | Clause 20.4 | m | n |
| 6 | NegSem_2004_InterleaveStat ement_006 | deactivate call inside interleave | Clause 20.4 | m | n |
| 7 | NegSem_2004_InterleaveStat ement_007 | stop inside interleave | 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 reception statement inside interleave | Clause 20.4 | m | n |
| 12 | NegSem_2004_InterleaveStatement_012 | indirect function call containing reception statement inside interleave | Clause 20.4 | m | n |
| 13 | NegSyn_2004_InterleaveStatement_001 | Validate that interleave statements are properly handled. | Clause 20.4 | m | y |
| 14 | NegSyn_2004_InterleaveStatement_002 | Validate that interleave statements are properly handled. | Clause 20.4 | m | y |
| 15 | Sem_2004_InterleaveStatement_001 | Validate that interleave statements are properly handled. | Clause 20.4 | m | y |
| 16 | Sem_2004_InterleaveStatement_002 | Validate that interleave 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 interleave 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 behaviour in invoked default | Clause 20.5.1 | m | y |
| 8 | Sem_200501_the_default_mechanism_007 | verify break command behaviour in invoked default | Clause 20.5.1 | m | y |
| 9 | Sem_200501_the_default_mechanism_008 | verify stop command behaviour 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 null 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 runs on 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 out parameters | Clause 20.5.2 | m | n |
| 4 | NegSem_200502_the_activate_operation_004 | verify error is generated when activating altstep with inout 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 activate 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 connect 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 map 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 connect 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 connect 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 map 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 connect 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 map 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 map parameters is detected | Clause 21.1.1 | m | n |
| 7 | NegSem_2101_01_connect_and_map_operations_007 | Verify that parameter count mismatch in map 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_210101_connect_and_map_operations_008 | violation of strong typing rules for local ports in connect operations | Clause 21.1.1 | m | y |
| 9 | NegSem_210101_connect_and_map_operations_009 | violation of strong typing rules for MTC ports in connect operations | Clause 21.1.1 | m | n |
| 10 | NegSem_210101_connect_and_map_operations_010 | violation of strong typing rules for PTC ports in connect operations | Clause 21.1.1 | m | y |
| 11 | NegSem_210101_connect_and_map_operations_011 | violation of strong typing rules for local ports in map operations | Clause 21.1.1 | m | n |
| 12 | NegSem_210101_connect_and_map_operations_012 | violation of strong typing rules for MTC ports in map operations | Clause 21.1.1 | m | n |
| 13 | NegSem_210101_connect_and_map_operations_013 | violation of strong typing rules for PTC ports in map operations | Clause 21.1.1 | m | y |
| 14 | NegSem_210101_connect_and_map_operations_014 | violation of strong typing rules for system ports in map operations | Clause 21.1.1 | m | n |
| 15 | NegSem_210101_connect_operation_001 | The the IUT does not allows two output port connection | Clause 21.1.1 | m | y |
| 16 | NegSem_210101_connect_operation_002 | The the IUT does not allow connecting incompatible ports | Clause 21.1.1 | m | y |
| 17 | NegSem_210101_map_operation_001 | IUT cannot map input port with output port | Clause 21.1.1 | m | n |
| 18 | NegSem_210101_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 | Connect 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 | Connect operation accepts ports where outlist of the 1st port is a subset of inlist of the 2nd port | Clause 21.1.1 | m | y |
| 21 | Sem_210101_connect_and_map_operations_003 | Connect operation accepts ports where outlist of the 2nd port is a subset of inlist of the 1st port | Clause 21.1.1 | m | y |
| 22 | Sem_210101_connect_and_map_operations_004 | Connect operation accepts ports where outlist of both ports are subsets of inlist of the counterpart ports | Clause 21.1.1 | m | y |
| 23 | Sem_210101_connect_and_map_operations_005 | Map 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 | Map 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 | Map 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 | Map 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 | Map 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 map 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 unmap 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 unmap parameters is detected | Clause 21.1.2 | m | n |
| 6 | NegSem_210102_disconnect_and_unmap_operations_006 | Verify that parameter count mismatch in unmap 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 unmap 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 disconnect operations | Clause 21.1.2 | m | y |
| 9 | NegSem_210102_disconnect_and_unmap_operations_009 | violation of strong typing rules for MTC ports in disconnect operations | Clause 21.1.2 | m | n |
| 10 | NegSem_210102_disconnect_and_unmap_operations_010 | violation of strong typing rules for PTC ports in disconnect operations | Clause 21.1.2 | m | y |
| 11 | NegSem_210102_disconnect_and_unmap_operations_011 | violation of strong typing rules for local ports in unmap operations | Clause 21.1.2 | m | n |
| 12 | NegSem_210102_disconnect_and_unmap_operations_012 | violation of strong typing rules for MTC ports in unmap operations | Clause 21.1.2 | m | n |
| 13 | NegSem_210102_disconnect_and_unmap_operations_013 | violation of strong typing rules for PTC ports in unmap operations | Clause 21.1.2 | m | y |
| 14 | NegSem_210102_disconnect_and_unmap_operations_014 | violation of strong typing rules for system ports in unmap 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 | Disconnect operation with two parameters works correctly | Clause 21.1.2 | m | y |
| 17 | Sem_210102_disconnect_and_unmap_operations_002 | Disconnect operation with one parameter works correctly | Clause 21.1.2 | m | n |
| 18 | Sem_210102_disconnect_and_unmap_operations_003 | Disconnect operation with all ports of a component works correctly | Clause 21.1.2 | m | n |
| 19 | Sem_210102_disconnect_and_unmap_operations_004 | Disconnect operation with no argument works correctly | Clause 21.1.2 | m | n |
| 20 | Sem_210102_disconnect_and_unmap_operations_005 | Unmap operation with one system port as a parameter works correctly | Clause 21.1.2 | m | n |
| 21 | Sem_210102_disconnect_and_unmap_operations_006 | Unmap operation with one component port as a parameter works correctly | Clause 21.1.2 | m | n |
| 22 | Sem_210102_disconnect_and_unmap_operations_007 | Unmap operation with all ports of a component works correctly | Clause 21.1.2 | m | n |
| 23 | Sem_210102_disconnect_and_unmap_operations_008 | Unmap 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 unmap 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_d isconnect_and _unmap_operations_011 | Unmap param statements are allowed in testcase block | Clause 21.1.2 | m | n |
| 27 | Sem_210102_d isconnect_and _unmap_operations_012 | Verify that the param part can be skipped in unmap operations | Clause 21.1.2 | m | n |
| 28 | Sem_210102_d isconnect_and _unmap_operations_013 | Verify that the param clause can be used when unmap contains a single system port parameter | Clause 21.1.2 | m | n |
| 29 | Sem_210102_d isconnect_operation_001 | All component notation work correctly in disconnect operation | Clause 21.1.2 | m | n |
| 30 | Sem_210102_d isconnect_operation_002 | Disconnect has no effect on components that are not connected | Clause 21.1.2 | m | y |
| 31 | Sem_210102_u nmap_operation_001 | Umap operation of a system and component port works correctly | Clause 21.1.2 | m | y |
| 32 | Sem_210102_u nmap_operation_002 | Umap 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_2103 01_CreateOperation_001 | Named components on hosts are accepted | Clause 21.3.1 | m | y |
| 2 | NegSem_2103 01_CreateOperation_002 | Named components on hosts are accepted | Clause 21.3.1 | m | y |
| 3 | NegSem_2103 01_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_2103 02_Start_test_component_001 | Non-alive ptc cannot start again | Clause 21.3.2 | m | y |
| 2 | NegSem_2103 02_Start_test_component_002 | Only component type is allowed for ptc declaration | Clause 21.3.2 | m | y |
| 3 | NegSem_2103 02_Start_test_component_003 | altstep in test component start test 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 start operation doesn't return a component | Clause 21.3.2 | m | y |
| 7 | NegSem_210302_Start_test_component_007 | starting function with incompatible runs on 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 start operation | Clause 21.3.2 | m | y |
| 15 | Sem_210302_Start_test_component_003 | test component as a result of function invocation in start 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 runs on clause | Clause 21.3.2 | m | y |
| 23 | Sem_210302_S tart_test_comp onent_011 | altstep in test component start operation | Clause 21.3.2 | m | n |
| 24 | Sem_210302_S tart_test_comp onent_012 | start operation works with parametered altsteps | Clause 21.3.2 | m | n |
| 25 | Sem_210302_S tart_test_comp onent_013 | inout parameters will be passed to the function by value, i.e. like in -parameters | Clause 21.3.2 | m | y |
| 26 | Sem_210302_S tart_test_comp onent_014 | inout parameters will be passed to the function by value, i.e. like in -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 stop operation to a variable of a different than component type | Clause 21.3.3 | m | y |
| 4 | NegSem_210303_Stop_test_component_004 | applying stop 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 | Component.stop causes the stopping of the target component. | Clause 21.3.3 | m | y |
| 6 | Sem_210303_Stop_test_component_002 | Self.stop 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 | stop.self 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_comp onent_001 | restarting explicitly killed non-alive component | Clause 21.3.4 | m | y |
| 15 | NegSem_210304_kill_test_comp onent_002 | restarting explicitly killed alive component | Clause 21.3.4 | m | y |
| 2 | NegSem_210304_kill_test_comp onent_003 | killing all PTCs from a PTC | Clause 21.3.4 | m | y |
| 3 | NegSem_210304_kill_test_comp onent_004 | applying kill operation to a variable of a different than component type | Clause 21.3.4 | m | y |
| 4 | NegSem_210304_kill_test_comp onent_005 | applying kill 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 ptcs | 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 ComponentArrayRef.alive | Clause 21.3.5 | m | n |
| 7 | NegSyn_210305_alive_operation_001 | Verify that error occurs when using index redirection in component.alive 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 component.alive operation | Clause 21.3.5 | m | y |
| 9 | NegSyn_210305_alive_operation_003 | Verify that error occurs when using index redirection in all component.alive operation | Clause 21.3.5 | m | y |
| 10 | NegSyn_210305_alive_operation_004 | Verify that error occurs when using index redirection in function instance.alive 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 mtc 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 ComponentArrayRef.running | Clause 21.3.6 | m | n |
| 7 | NegSyn_210306_running_operation_001 | Verify that error occurs when using index redirection in component.running operation | Clause 21.3.6 | m | y |
| 8 | NegSyn_210306_running_operation_002 | Verify that error occurs when using index redirection in any component.running operation | Clause 21.3.6 | m | y |
| 9 | NegSyn_210306_running_operation_003 | Verify that error occurs when using index redirection in all component.running operation | Clause 21.3.6 | m | y |
| 10 | NegSyn_210306_running_operation_004 | Verify that error occurs when using index redirection in function instance.running 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 component.running 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 mtc | 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 done operation | Clause 21.3.7 | m | n |
| 8 | NegSem_2103 07_done_operation_008 | storing verdict in any component.done operation | Clause 21.3.7 | m | n |
| 9 | NegSem_2103 07_done_operation_009 | storing verdict in all component.done operation | Clause 21.3.7 | m | n |
| 10 | NegSem_2103 07_done_operation_010 | partially initialized array in any from ComponentArrayRef.done | 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 component.done operation | Clause 21.3.7 | m | y |
| 12 | NegSyn_210307_done_operation_002 | Verify that error occurs when using index redirection in any component.done operation | Clause 21.3.7 | m | y |
| 13 | NegSyn_210307_done_operation_003 | Verify that error occurs when using index redirection in all component.done operation | Clause 21.3.7 | m | y |
| 14 | NegSyn_210307_done_operation_004 | Verify that error occurs when using index redirection in function instance.done 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_d one_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_d one_operation_008 | Verify that any from done index redirection works for multidimensional arrays | Clause 21.3.7 | m | y |
| 23 | Sem_210307_d one_operation_009 | Verify any from done index redirection to lazy variable | Clause 21.3.7 | m | y |
| 24 | Sem_210307_d one_operation_010 | Verify any from done index redirection to fuzzy variable | Clause 21.3.7 | m | y |
| 25 | Sem_210307_d one_operation_011 | Verify that all component.done produces true if some components haven't been started | Clause 21.3.7 | m | y |
| 26 | Sem_210307_d one_operation_012 | storing verdict in done 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 killed operation | Clause 21.3.8 | m | n |
| 8 | NegSem_210308_killed_operation_008 | storing verdict in any component.killed operation | Clause 21.3.8 | m | n |
| 9 | NegSem_210308_killed_operation_009 | storing verdict in all component.killed operation | Clause 21.3.8 | m | n |
| 10 | NegSem_210308_killed_operation_010 | partially initialized array in any from ComponentArrayRef.killed | Clause 21.3.8 | m | y |
| 11 | NegSyn_210308_killed_operation_001 | Verify that error occurs when using index redirection in component.killed operation | Clause 21.3.8 | m | y |
| 12 | NegSyn_210308_killed_operation_002 | Verify that error occurs when using index redirection in any component.killed operation | Clause 21.3.8 | m | y |
| 13 | NegSyn_210308_killed_operation_003 | Verify that error occurs when using index redirection in all component.killed 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 instance.killed 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 killed 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 send operation | Clause 22.2.1 | m | n |
| 9 | NegSem_220201_SendOperation_009 | null address in the to clause of send operation | Clause 22.2.1 | m | n |
| 10 | NegSem_220201_SendOperation_010 | null component in the to clause of send operation | Clause 22.2.1 | m | y |
| 11 | NegSem_220201_SendOperation_011 | send 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 send operation | Clause 22.2.1 | m | y |
| 17 | Sem_220201_SendOperation_006 | multicast send operation | Clause 22.2.1 | m | n |
| 18 | Sem_220201_SendOperation_007 | broadcast send 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_2202 02_ReceiveOperation_001 | The IUT correctly handles message receiving operations | Clause 22.2.2 | m | y |
| 2 | NegSem_2202 02_ReceiveOperation_002 | no type prefix in ambiguous inline template | Clause 22.2.2 | m | y |
| 3 | NegSem_2202 02_ReceiveOperation_003 | type mismatch in redirect value assignment | Clause 22.2.2 | m | y |
| 4 | NegSem_2202 02_ReceiveOperation_004 | type mismatch in redirect assignment of message fields | Clause 22.2.2 | m | y |
| 5 | NegSem_2202 02_ReceiveOperation_005 | applying @decoded to a forbidden field | Clause 22.2.2 | m | y |
| 6 | NegSem_2202 02_ReceiveOperation_006 | decoding error in @decoded redirect assignment | Clause 22.2.2 | m | y |
| 7 | NegSem_2202 02_ReceiveOperation_007 | invalid format value in @decoded redirect assignment | Clause 22.2.2 | m | y |
| 8 | NegSem_2202 02_ReceiveOperation_008 | value of wrong type in @decoded redirect assignment | Clause 22.2.2 | m | y |
| 9 | NegSem_2202 02_ReceiveOperation_009 | encoding parameter of @decoded redirect assignment applied to incorrect type | Clause 22.2.2 | m | y |
| 10 | NegSem_2202 02_ReceiveOperation_010 | attempting to store component name in redirect assignment | Clause 22.2.2 | m | y |
| 11 | NegSem_2202 02_ReceiveOperation_011 | attempting to receive a type missing from the port list | Clause 22.2.2 | m | y |
| 12 | NegSem_2202 02_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_R eceiveOperati on_003 | The IUT correctly handles message receiving operations | Clause 22.2.2 | m | y |
| 27 | Sem_220202_R eceiveOperati on_004 | The IUT correctly handles message receiving operations | Clause 22.2.2 | m | n |
| 28 | Sem_220202_R eceiveOperati on_005 | The IUT correctly handles message receiving operations | Clause 22.2.2 | m | n |
| 29 | Sem_220202_R eceiveOperati on_006 | receive with a from clause (single item) | Clause 22.2.2 | m | y |
| 30 | Sem_220202_R eceiveOperati on_007 | receive with a from clause (multiple items) | Clause 22.2.2 | m | y |
| 31 | Sem_220202_R eceiveOperati on_008 | receive with a from clause (any component) | Clause 22.2.2 | m | n |
| 32 | Sem_220202_R eceiveOperati on_009 | redirect assignment of message fields | Clause 22.2.2 | m | y |
| 33 | Sem_220202_R eceiveOperati on_010 | redirect assignment of message fields | Clause 22.2.2 | m | y |
| 34 | Sem_220202_R eceiveOperati on_011 | @decoded redirect assignment of a bitstring field | Clause 22.2.2 | m | y |
| 35 | Sem_220202_R eceiveOperati on_012 | @decoded redirect assignment of a hexstring field | Clause 22.2.2 | m | y |
| 36 | Sem_220202_R eceiveOperati on_013 | @decoded redirect assignment of an octetstring field | Clause 22.2.2 | m | y |
| 37 | Sem_220202_R eceiveOperati on_014 | @decoded redirect assignment of a charstring field | Clause 22.2.2 | m | y |
| 38 | Sem_220202_R eceiveOperati on_015 | @decoded 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_R eceiveOperati on_016 | @decoded redirect assignment with encoding parameter | Clause 22.2.2 | m | n |
| 40 | Sem_220202_R eceiveOperati on_017 | redirect assignment storing a component | Clause 22.2.2 | m | y |
| 41 | Sem_220202_R eceiveOperati on_018 | redirect assignment storing an address | Clause 22.2.2 | m | n |
| 42 | Sem_220202_R eceiveOperati on_019 | any from port.receive statement | Clause 22.2.2 | m | y |
| 43 | Sem_220202_R eceiveOperati on_020 | single dimensional index redirect in any from port.receive statement | Clause 22.2.2 | m | y |
| 44 | Sem_220202_R eceiveOperati on_021 | multidimensional index redirect in any from port.receive statement | Clause 22.2.2 | m | y |
| 45 | Sem_220202_R eceiveOperati on_022 | standalone receive as a shorthand for alt statement | Clause 22.2.2 | m | y |
| 46 | Sem_220202_R eceiveOperati on_023 | single dimensional index redirect in any from port.receive statement | Clause 22.2.2 | m | n |
| 47 | Sem_220202_R eceiveOperati on_024 | lazy variable in value redirect | Clause 22.2.2 | m | y |
| 48 | Sem_220202_R eceiveOperati on_025 | lazy variable in sender redirect | Clause 22.2.2 | m | n |
| 49 | Sem_220202_R eceiveOperati on_026 | lazy variable in index redirect | Clause 22.2.2 | m | y |
| 50 | Sem_220202_R eceiveOperati on_027 | fuzzy variable in value redirect | Clause 22.2.2 | m | y |
| 51 | Sem_220202_R eceiveOperati on_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_R eceiveOperati on_029 | fuzzy variable in @index redirect | Clause 22.2.2 | m | y |
| 53 | Sem_220202_R eceiveOperati on_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_2202 03_TriggerOpe ration_001 | The IUT correctly handles message trigger operations | Clause 22.2.3 | m | y |
| 2 | NegSem_2202 03_TriggerOpe ration_002 | no type prefix in ambiguous inline template | Clause 22.2.3 | m | y |
| 3 | NegSem_2202 03_TriggerOpe ration_003 | type mismatch in redirect value assignment | Clause 22.2.3 | m | y |
| 4 | NegSem_2202 03_TriggerOpe ration_004 | type mismatch in redirect assignment of message fields | Clause 22.2.3 | m | y |
| 5 | NegSem_2202 03_TriggerOpe ration_005 | applying @decoded to a forbidden field | Clause 22.2.3 | m | y |
| 6 | NegSem_2202 03_TriggerOpe ration_006 | decoding error in @decoded redirect assignment | Clause 22.2.3 | m | y |
| 7 | NegSem_2202 03_TriggerOpe ration_007 | invalid format value in @decoded redirect assignment | Clause 22.2.3 | m | y |
| 8 | NegSem_2202 03_TriggerOpe ration_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_2202 03_TriggerOperation_009 | encoding parameter of @decoded redirect assignment applied to incorrect type | Clause 22.2.3 | m | y |
| 10 | NegSem_2202 03_TriggerOperation_010 | attempting to store component name in redirect assignment | Clause 22.2.3 | m | y |
| 11 | NegSem_2202 03_TriggerOperation_011 | attempting to receive a type missing from the port list | Clause 22.2.3 | m | y |
| 12 | NegSem_2202 03_TriggerOperation_012 | value redirect assignment in receive any message statement | Clause 22.2.3 | m | y |
| 13 | NegSem_2202 03_TriggerOperation_013 | trying to store address with trigger operation on connected port | Clause 22.2.3 | m | n |
| 14 | NegSem_2202 03_TriggerOperation_014 | type mismatch in sender redirect assignment | Clause 22.2.3 | m | y |
| 15 | NegSem_2202 03_TriggerOperation_015 | null component reference in from clause of trigger operation | Clause 22.2.3 | m | y |
| 16 | NegSem_2202 03_TriggerOperation_016 | null address reference in from clause of receive operation | Clause 22.2.3 | m | n |
| 17 | NegSem_2202 03_TriggerOperation_017 | index redirection in standard port.trigger | Clause 22.2.3 | m | y |
| 18 | NegSem_2202 03_TriggerOperation_018 | index redirection in any port.receive | Clause 22.2.3 | m | n |
| 19 | NegSem_2202 03_TriggerOperation_019 | insufficient value range of variable in index redirection | Clause 22.2.3 | m | y |
| 20 | NegSem_2202 03_TriggerOperation_020 | insufficient array dimension of variable in index redirection | Clause 22.2.3 | m | y |
| 21 | NegSem_2202 03_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 decmatch and @decoded value redirect | Clause 22.2.3 | m | n |
| 24 | Sem_220203_TriggerOperation_001 | The IUT correctly handles message trigger operations | Clause 22.2.3 | m | y |
| 25 | Sem_220203_TriggerOperation_002 | The IUT correctly handles message trigger operations | Clause 22.2.3 | m | y |
| 26 | Sem_220203_TriggerOperation_003 | The IUT correctly handles message trigger operations | Clause 22.2.3 | m | y |
| 27 | Sem_220203_TriggerOperation_004 | The IUT correctly handles message trigger operations | Clause 22.2.3 | m | n |
| 28 | Sem_220203_TriggerOperation_005 | The IUT correctly handles message trigger operations | Clause 22.2.3 | m | n |
| 29 | Sem_220203_TriggerOperation_006 | trigger with a from clause (single item) | Clause 22.2.3 | m | y |
| 30 | Sem_220203_TriggerOperation_007 | trigger with a from clause (multiple items) | Clause 22.2.3 | m | y |
| 31 | Sem_220203_TriggerOperation_008 | trigger with a from 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 | @decoded 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 encoding 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 port.trigger statement | Clause 22.2.3 | m | y |
| 43 | Sem_220203_T riggerOperatio n_020 | single dimensional index redirect in any from port.trigger statement | Clause 22.2.3 | m | y |
| 44 | Sem_220203_T riggerOperatio n_021 | multidimensional index redirect in any from port.trigger statement | Clause 22.2.3 | m | y |
| 45 | Sem_220203_T riggerOperatio n_022 | standalone trigger as a shorthand for alt 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 call 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 | null component in the to clause of the call operation | Clause 22.3.1 | m | y |
| 4 | NegSem_2203 01_CallOperati on_004 | null component in the multicast list of the to clause of the call operation | Clause 22.3.1 | m | y |
| 5 | NegSem_2203 01_CallOperati on_005 | incompatible template in the to clause of the call 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 inout and out list cannot be used in call operations | Clause 22.3.1 | m | y |
| 8 | NegSem_220301_CallOperation_008 | verify that in parameters of a signature used in a call 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 call operation cannot be omitted | Clause 22.3.1 | m | y |
| 10 | NegSem_220301_CallOperation_010 | verify that inout parameters of a signature used in a call operation cannot contain matching symbols | Clause 22.3.1 | m | y |
| 11 | NegSem_220301_CallOperation_011 | verify that inout parameters of a signature used in a call operation cannot be omitted | Clause 22.3.1 | m | y |
| 12 | NegSem_220301_CallOperation_012 | missing to 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 call timer values | Clause 22.3.1 | m | y |
| 14 | NegSem_220301_CallOperation_014 | verify that getreply 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 nowait 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 else clause | Clause 22.3.1 | m | y |
| 22 | NegSyn_220301_CallOperation_002 | verify that the response and exception handling part cannot contain an altstep | Clause 22.3.1 | m | y |
| 23 | Sem_220301_CallOperation_001 | The IUT correctly handles procedure call operations | Clause 22.3.1 | m | y |
| 24 | Sem_220301_CallOperation_002 | The IUT correctly handles procedure call 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_007 | The IUT correctly handles broadcast/multicast procedure call | Clause 22.3.1 | m | n |
| 30 | Sem_220301_C allOperation_008 | The IUT correctly handles blocking procedure call | Clause 22.3.1 | m | y |
| 31 | Sem_220301_C allOperation_009 | Verify that defaults are not executed in response and exception handling part of a call operation | Clause 22.3.1 | m | y |
| 32 | Sem_220301_C allOperation_010 | Blocking call with no timeout | Clause 22.3.1 | m | y |
| 33 | Sem_220301_C allOperation_011 | Blocking broadcast call with response and exception handling part and subsequent alt | Clause 22.3.1 | m | n |
| 34 | Sem_220301_C allOperation_012 | Blocking broadcast call with response and exception handling part handling all replies | Clause 22.3.1 | m | n |
| 35 | Sem_220301_C allOperation_013 | Blocking multicast call with response and exception handling part and subsequent alt | Clause 22.3.1 | m | n |
| 36 | Sem_220301_C allOperation_014 | Blocking multicast call with response and exception handling part handling all replies | Clause 22.3.1 | m | n |
| 37 | Sem_220301_C allOperation_015 | Non-blocking broadcast call | Clause 22.3.1 | m | n |
| 38 | Sem_220301_C allOperation_016 | Non-blocking multicast call | Clause 22.3.1 | m | n |
| 39 | Sem_220301_C allOperation_017 | 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_CallOperation_018 | Verify that out parameters of a signature used in a call operation can be omitted | Clause 22.3.1 | m | y |
| 41 | Sem_220301_CallOperation_019 | Verify that out parameters of a signature used in a call operation can contain matching symbols | Clause 22.3.1 | m | y |
| 42 | Sem_220301_CallOperation_020 | Verify that replies that are not related to the actual call are ignored in unqualified getreply statements | Clause 22.3.1 | m | n |
| 43 | Sem_220301_CallOperation_021 | Verify that exceptions that are not related to the actual call are ignored in unqualified catch 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 | Getcall operations are only used on procedure based ports | Clause 22.3.2 | m | y |
| 2 | NegSem_220302_GetcallOperation_002 | Getcall operation does not allow value assignment | Clause 22.3.2 | m | y |
| 3 | NegSem_220302_GetcallOperation_003 | Getcall 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 getcall is applied to single port | Clause 22.3.2 | m | y |
| 5 | NegSem_220302_GetcallOperation_005 | Verify that error occurs when any from getcall 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 getcall 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 getcall 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 getcall index redirection for multi-D arrays requires arrays | Clause 22.3.2 | m | y |
| 9 | NegSem_2203 02_GetcallOperation_009 | null component in the from clause of the getcall operation | Clause 22.3.2 | m | y |
| 10 | NegSem_2203 02_GetcallOperation_010 | null component in the multicast list of the from clause of the getcall operation | Clause 22.3.2 | m | n |
| 11 | NegSem_2203 02_GetcallOperation_011 | applying @decoded to a forbidden field | Clause 22.3.2 | m | y |
| 12 | NegSem_2203 02_GetcallOperation_012 | decoding error in @decoded redirect assignment | Clause 22.3.2 | m | y |
| 13 | NegSem_2203 02_GetcallOperation_013 | invalid format value in @decoded redirect assignment | Clause 22.3.2 | m | y |
| 14 | NegSem_2203 02_GetcallOperation_014 | value of wrong type in @decoded redirect assignment | Clause 22.3.2 | m | y |
| 15 | NegSem_2203 02_GetcallOperation_015 | encoding parameter of @decoded redirect assignment applied to incorrect type | Clause 22.3.2 | m | y |
| 16 | NegSem_2203 02_GetcallOperation_016 | incompatible from and sender clause in getcall 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 decmatch and @decoded value redirect | Clause 22.3.2 | m | n |
| 18 | NegSem_220302_GetcallOperation_018 | incompatible template in the from clause of the getcall operation | Clause 22.3.2 | m | n |
| 19 | NegSem_220302_GetcallOperation_019 | trying to store an incompatible component value in the sender clause of a getcall operation | Clause 22.3.2 | m | n |
| 20 | NegSyn_220302_GetcallOperation_001 | Verify that error occurs when using index redirection in port.getcall operation | Clause 22.3.2 | m | y |
| 21 | NegSyn_220302_GetcallOperation_002 | Verify that error occurs when using index redirection in any port.getcall operation | Clause 22.3.2 | m | n |
| 22 | Sem_220302_GetcallOperation_001 | Getcall operations remove only matching procedure from the queue | Clause 22.3.2 | m | y |
| 23 | Sem_220302_GetcallOperation_002 | Getcall operations remove the matching procedure from the queue | Clause 22.3.2 | m | y |
| 24 | Sem_220302_GetcallOperation_003 | The getcall operation can be correctly restricted to a certain client | Clause 22.3.2 | m | y |
| 25 | Sem_220302_GetcallOperation_004 | The getcall operation can be correctly restricted to a certain client | Clause 22.3.2 | m | y |
| 26 | Sem_220302_GetcallOperation_005 | Getcall operations work with any port attribute | Clause 22.3.2 | m | n |
| 27 | Sem_220302_GetcallOperation_006 | Verify that any from getcall 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 getcall 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 getcall 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 getcall 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 getcall index redirection works for multidimensional arrays | Clause 22.3.2 | m | y |
| 33 | Sem_220302_G etcallOperatio n_012 | Verify any from getcall index redirection to lazy variable | Clause 22.3.2 | m | y |
| 34 | Sem_220302_G etcallOperatio n_013 | Verify any from getcall index redirection to fuzzy variable | Clause 22.3.2 | m | y |
| 35 | Sem_220302_G etcallOperatio n_014 | @decoded redirect assignment of a bitstring field | Clause 22.3.2 | m | y |
| 36 | Sem_220302_G etcallOperatio n_015 | @decoded redirect assignment of a hexstring field | Clause 22.3.2 | m | y |
| 37 | Sem_220302_G etcallOperatio n_016 | @decoded redirect assignment of an octetstring field | Clause 22.3.2 | m | y |
| 38 | Sem_220302_G etcallOperatio n_017 | @decoded redirect assignment of a charstring field | Clause 22.3.2 | m | y |
| 39 | Sem_220302_G etcallOperatio n_018 | @decoded redirect assignment of a universal charstring field | Clause 22.3.2 | m | y |
| 40 | Sem_220302_G etcallOperatio n_019 | @decoded redirect assignment with encoding 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 | getcall with a from clause (single item) | Clause 22.3.2 | m | y |
| 42 | Sem_220302_G etcallOperatio n_021 | getcall with a from clause (multiple items) | Clause 22.3.2 | m | y |
| 43 | Sem_220302_G etcallOperatio n_022 | getcall with a from 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 | Reply operations are only used on procedure based ports | Clause 22.3.3 | m | y |
| 2 | NegSem_2203 03_ReplyOper ation_002 | null component in the to clause of the reply operation | Clause 22.3.3 | m | y |
| 3 | NegSem_2203 03_ReplyOper ation_003 | null component in the multicast list of the to clause of the reply operation | Clause 22.3.3 | m | n |
| 4 | NegSem_2203 03_ReplyOper ation_004 | verify that reply 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 reply operation | Clause 22.3.3 | m | y |
| 6 | NegSem_2203 03_ReplyOper ation_006 | verify that matching symbols cannot be used in out signature parameters in reply 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 inout signature parameters in reply operations | Clause 22.3.3 | m | y |
| 8 | NegSem_220303_ReplyOperation_008 | verify that error is issued for a missing to clause in a reply 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 to clause of the reply operation | Clause 22.3.3 | m | y |
| 10 | NegSem_220303_ReplyOperation_010 | verify that reply 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 reply operation (implicit unicast, no return value) | Clause 22.3.3 | m | y |
| 14 | Sem_220303_ReplyOperation_004 | verify that functionality of a simple reply operation (explicit unicast, return value) | Clause 22.3.3 | m | y |
| 15 | Sem_220303_ReplyOperation_005 | verify that in signature parameters of reply 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 getreply is applied to single port | Clause 22.3.4 | m | y |
| 2 | NegSem_220304_getreply_operation_002 | Verify that error occurs when any from getreply 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 getreply 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 getreply 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 getreply index redirection for multi-D arrays requires arrays | Clause 22.3.4 | m | y |
| 6 | NegSem_220304_getreply_operation_006 | null component in the from clause of the getreply operation | Clause 22.3.4 | m | y |
| 7 | NegSem_220304_getreply_operation_007 | null component in the multicast list of the from clause of the getreply operation | Clause 22.3.4 | m | y |
| 8 | NegSem_220304_getreply_operation_008 | applying @decoded to a forbidden parameter field | Clause 22.3.4 | m | y |
| 9 | NegSem_220304_getreply_operation_009 | decoding error in @decoded redirect parameter assignment | Clause 22.3.4 | m | y |
| 10 | NegSem_220304_getreply_operation_010 | invalid format value in @decoded redirect parameter assignment | Clause 22.3.4 | m | y |
| 11 | NegSem_220304_getreply_operation_011 | value of wrong type in @decoded 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 port.getreply operation | Clause 22.3.4 | m | n |
| 25 | Sem_220304_getreply_operation_001 | Verify that any from getreply 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 getreply 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 getreply 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 getreply 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 getreply index redirection works for multidimensional arrays | Clause 22.3.4 | m | y |
| 31 | Sem_220304_getreply_operation_007 | Verify any from getreply index redirection to lazy variable | Clause 22.3.4 | m | y |
| 32 | Sem_220304_getreply_operation_008 | Verify any from getreply index redirection to fuzzy variable | Clause 22.3.4 | m | y |
| 33 | Sem_220304_getreply_operation_009 | @decoded redirect parameter assignment of a bitstring field | Clause 22.3.4 | m | y |
| 34 | Sem_220304_getreply_operation_010 | @decoded 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 to 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 to clause of the raise operation | Clause 22.3.5 | m | y |
| 8 | NegSem_220305_raise_operation_008 | null in the to clause of the raise operation | Clause 22.3.5 | m | y |
| 9 | NegSem_220305_raise_operation_009 | raise 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 raise operation | Clause 22.3.5 | m | y |
| 12 | Sem_220305_raise_operation_002 | unicast raise 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 raise operation | Clause 22.3.5 | m | n |
| 14 | Sem_220305_raise_operation_004 | multicast raise 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 | null component in the from clause of the catch operation | Clause 22.3.6 | m | y |
| 7 | NegSem_220306_catch_operation_007 | null component in the multicast list of the from clause of the catch operation | Clause 22.3.6 | m | y |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|------------------------------------|-------------------------------------------------------------------------------------------|---------------------------|--------|---------|
| 8 | NegSem_2203 06_catch_operation_008 | applying @decoded to a forbidden exception field | Clause 22.3.6 | m | y |
| 9 | NegSem_2203 06_catch_operation_009 | decoding error in @decoded redirect value assignment | Clause 22.3.6 | m | y |
| 10 | NegSem_2203 06_catch_operation_010 | invalid format value in @decoded redirect value assignment | Clause 22.3.6 | m | y |
| 11 | NegSem_2203 06_catch_operation_011 | value of wrong type in @decoded redirect value assignment | Clause 22.3.6 | m | y |
| 12 | NegSem_2203 06_catch_operation_012 | encoding parameter of @decoded redirect value assignment applied to incorrect type | Clause 22.3.6 | m | y |
| 13 | NegSem_2203 06_catch_operation_013 | incompatible from and sender clause in catch operation | Clause 22.3.6 | m | y |
| 14 | NegSem_2203 06_catch_operation_014 | incompatible decmatch and @decoded value redirect | Clause 22.3.6 | m | n |
| 15 | NegSem_2203 06_catch_operation_015 | incompatible template in the from clause of the catch operation | Clause 22.3.6 | m | y |
| 16 | NegSem_2203 06_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_22030 6_catch_operation_001 | Verify that error occurs when using index redirection in port.catch operation | Clause 22.3.6 | m | y |
| 18 | NegSyn_22030 6_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 from clause (single item) | Clause 22.3.6 | m | y |
| 35 | Sem_220306_catch_operation_016 | catch with a from clause (multiple items) | Clause 22.3.6 | m | y |
| 36 | Sem_220306_catch_operation_017 | catch with a from 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 | null component reference in from clause of check operation | Clause 22.4 | m | y |
| 2 | NegSem_2204_the_check_operation_002 | null address reference in from clause of check operation | Clause 22.4 | m | n |
| 3 | NegSem_2204_the_check_operation_003 | incompatible from and sender clause | Clause 22.4 | m | n |
| 4 | NegSem_2204_the_check_operation_004 | incompatible value in the from 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 port.check with assignment works correctly inside alt | Clause 22.4 | m | y |
| 108 | Sem_2204_the_check_operation_103 | Verify that any port.check works correctly as standalone statement | Clause 22.4 | m | y |
| 109 | Sem_2204_the_check_operation_104 | Verify that any port.check (catch) with assignment works correctly as standalone statement | Clause 22.4 | m | y |
| 110 | Sem_2204_the_check_operation_105 | Verify behaviour of port.check in case of unsuccessful match inside alt | Clause 22.4 | m | n |
| 111 | Sem_2204_the_check_operation_106 | Verify behaviour of port.check with assignment in case of unsuccessful match inside alt | Clause 22.4 | m | y |
| 112 | Sem_2204_the_check_operation_107 | Verify behaviour of port.check in case of unsuccessful match in standalone statement | Clause 22.4 | m | y |
| 113 | Sem_2204_the_check_operation_108 | Verify behaviour of port.check with assignment in case of unsuccessful match in standalone statement | Clause 22.4 | m | y |
| 114 | Sem_2204_the_check_operation_109 | Verify any port.check behaviour in case of unsuccessful match inside alt | Clause 22.4 | m | n |
| 115 | Sem_2204_the_check_operation_110 | Verify behaviour of any port.check with assignment in case of unsuccessful match inside alt | 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 port.check in case of unsuccessful match in standalone statement | Clause 22.4 | m | y |
| 117 | Sem_2204_the_check_operation_112 | Verify behaviour of any port.check 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 port.check in case of successful match inside alt | Clause 22.4 | m | n |
| 119 | Sem_2204_the_check_operation_114 | Verify behaviour of port.check with assignment in case of successful match inside alt | Clause 22.4 | m | y |
| 120 | Sem_2204_the_check_operation_115 | Verify behaviour of port.check in case of successful match in standalone statement | Clause 22.4 | m | y |
| 121 | Sem_2204_the_check_operation_116 | Verify behaviour of port.check 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 port.check in case of successful match inside alt | Clause 22.4 | m | y |
| 123 | Sem_2204_the_check_operation_118 | Verify behaviour of any port.check with assignment in case of successful match inside alt | Clause 22.4 | m | y |
| 124 | Sem_2204_the_check_operation_119 | Verify behaviour of any port.check 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 port.check 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_to_plevel_001 | Ensure timer operations are not allowed outside of module control, test case, function, altstep | Clause 23 | m | y |
| 2 | NegSem_23_to_plevel_002 | Ensure timer operations are not allowed outside of module control, test case, function, altstep | Clause 23 | m | y |
| 3 | NegSyn_23_to_plevel_001 | Ensure timer operations are not allowed outside of module control, test case, function, altstep | Clause 23 | m | y |
| 4 | NegSyn_23_to_plevel_002 | Ensure timer 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 timer start syntax | Clause 23.2 | m | y |
| 15 | NegSyn_2302_timer_start_011 | Ensure timer start syntax | Clause 23.2 | m | y |
| 16 | NegSyn_2302_timer_start_012 | Ensure timer start syntax | Clause 23.2 | m | y |
| 17 | NegSyn_2302_timer_start_013 | Ensure timer start 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 timer stop syntax | Clause 23.3 | m | y |
| 2 | NegSyn_2303_timer_stop_002 | Ensure timer stop syntax | Clause 23.3 | m | y |
| 3 | NegSyn_2303_timer_stop_003 | Ensure all timer stop syntax | Clause 23.3 | m | y |
| 4 | NegSyn_2303_timer_stop_004 | Ensure all timer stop 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 timer stop syntax | Clause 23.3 | m | y |
| 6 | NegSyn_2303_timer_stop_006 | Ensure all timer stop 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 timer stop syntax | Clause 23.3 | m | y |
| 11 | Syn_2303_timer_stop_007 | Ensure all timer stop 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 timer read syntax | Clause 23.4 | m | y |
| 2 | NegSyn_2304_timer_read_002 | Ensure timer read syntax | Clause 23.4 | m | y |
| 3 | NegSyn_2304_timer_read_003 | Ensure timer read syntax | Clause 23.4 | m | y |
| 4 | NegSyn_2304_timer_read_004 | Ensure timer read syntax: disallow any timer.read | Clause 23.4 | m | y |
| 5 | NegSyn_2304_timer_read_005 | Ensure timer read syntax | Clause 23.4 | m | y |
| 6 | Sem_2304_timer_read_001 | Ensure timer read 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 timer read result is non-negative float | Clause 23.4 | m | y |
| 8 | Sem_2304_timer_read_003 | Ensure timer read 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 timer running syntax | Clause 23.5 | m | y |
| 2 | NegSyn_2305_timer_running_002 | Ensure timer running syntax | Clause 23.5 | m | y |
| 3 | NegSyn_2305_timer_running_003 | Ensure timer running syntax | Clause 23.5 | m | y |
| 4 | NegSyn_2305_timer_running_004 | Ensure timer running syntax | Clause 23.5 | m | y |
| 5 | NegSyn_2305_timer_running_005 | Ensure timer running syntax | Clause 23.5 | m | y |
| 6 | NegSyn_2305_timer_running_006 | Ensure timer running syntax: disallow all timer.running | 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 timer running operation works | Clause 23.5 | m | y |
| 9 | Sem_2305_timer_running_003 | Ensure timer running operation works | Clause 23.5 | m | y |
| 10 | Sem_2305_timer_running_004 | Ensure timer running 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 timer runnig 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 timer timeout syntax | Clause 23.6 | m | y |
| 2 | NegSyn_2306_timer_timeout_002 | Ensure timer timeout can `t be used in boolean expressions | Clause 23.6 | m | y |
| 3 | NegSyn_2306_timer_timeout_003 | Ensure timer timeout syntax | Clause 23.6 | m | y |
| 4 | NegSyn_2306_timer_timeout_004 | Ensure timer timeout syntax | Clause 23.6 | m | y |
| 5 | NegSyn_2306_timer_timeout_005 | Ensure timer timeout syntax | Clause 23.6 | m | y |
| 6 | NegSyn_2306_timer_timeout_006 | Ensure timer timeout syntax | Clause 23.6 | m | y |
| 7 | NegSyn_2306_timer_timeout_007 | Ensure ` timer timeout ` syntax | Clause 23.6 | m | y |
| 8 | Sem_2306_timer_timeout_001 | Ensure timer timeout operations: non-started timer does not timeout | Clause 23.6 | m | y |
| 9 | Sem_2306_timer_timeout_002 | Ensure timer timeout 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 timer timeout happen in order from the shortest to the longest | Clause 23.6 | m | y |
| 11 | Sem_2306_timer_timeout_004 | Ensure any timer.timeout operation | Clause 23.6 | m | y |
| 12 | Sem_2306_timer_timeout_005 | Ensure any timer.timeout operation for timeouts that are not in scope | Clause 23.6 | m | y |
| 13 | Sem_2306_timer_timeout_006 | Ensure any timer.timeout 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 timer timeout 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 timer.timeout | 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 getverdict is not allowed in constant initialization in control part | Clause 24 | m | y |
| 2 | NegSem_24_to_plevel_002 | Ensure getverdict 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_to plevel_003 | Ensure getverdict is not allowed in variable definition in control part. | Clause 24 | m | y |
| 4 | NegSem_24_to plevel_004 | Ensure setverdict is not allowed in part within compound statement. | Clause 24 | m | y |
| 5 | NegSem_24_to plevel_005 | Ensure setverdict is not allowed in control part at the top level. | Clause 24 | m | y |
| 6 | Syn_24_toplevel_001 | Ensure setverdict and getverdict are allowed in functions | Clause 24 | m | n |
| 7 | Syn_24_toplevel_002 | Ensure setverdict and getverdict are allowed in test cases | Clause 24 | m | n |
| 8 | Syn_24_toplevel_003 | Ensure setverdict and getverdict 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 | Setverdict can't set error verdict | Clause 24.1 | m | y |
| 2 | Sem_2401_GlobalVerdict_001 | Ensure overwriting rules for global verdict: pass can overwrite none . | Clause 24.1 | m | y |
| 3 | Sem_2401_GlobalVerdict_002 | Ensure overwriting rules for global verdict: inconc can overwrite none . | Clause 24.1 | m | y |
| 4 | Sem_2401_GlobalVerdict_003 | Ensure overwriting rules for global verdict: fail can overwrite none . | Clause 24.1 | m | y |
| 5 | Sem_2401_GlobalVerdict_004 | Ensure overwriting rules for global verdict: none can't overwrite pass . | 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: inconc can overwrite pass . | Clause 24.1 | m | y |
| 7 | Sem_2401_GlobalVerdict_006 | Ensure overwriting rules for global verdict: fail can overwrite pass . | Clause 24.1 | m | y |
| 8 | Sem_2401_GlobalVerdict_007 | Ensure overwriting rules for global verdict: none can't overwrite inconc . | Clause 24.1 | m | y |
| 9 | Sem_2401_GlobalVerdict_008 | Ensure overwriting rules for global verdict: pass can't overwrite inconc . | Clause 24.1 | m | y |
| 10 | Sem_2401_GlobalVerdict_009 | Ensure overwriting rules for global verdict: fail can overwrite inconc . | Clause 24.1 | m | y |
| 11 | Sem_2401_GlobalVerdict_010 | Ensure overwriting rules for global verdict: none can't overwrite fail . | Clause 24.1 | m | y |
| 12 | Sem_2401_GlobalVerdict_011 | Ensure overwriting rules for global verdict: pass can't overwrite fail . | Clause 24.1 | m | y |
| 13 | Sem_2401_GlobalVerdict_012 | Ensure overwriting rules for global verdict: inconc can't overwrite fail . | Clause 24.1 | m | y |
| 14 | Sem_2401_InitiallyNone_001 | Local verdicts initializes with none | Clause 24.1 | m | y |
| 15 | Sem_2401_LocalVerdict_001 | Ensure overwriting rules for local verdict: pass can overwrite none . | Clause 24.1 | m | y |
| 16 | Sem_2401_LocalVerdict_002 | Ensure overwriting rules for local verdict: inconc can overwrite none . | Clause 24.1 | m | y |
| 17 | Sem_2401_LocalVerdict_003 | Ensure overwriting rules for local verdict: fail can overwrite none . | Clause 24.1 | m | y |
| 18 | Sem_2401_LocalVerdict_004 | Ensure overwriting rules for local verdict: none can't overwrite pass . | 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: inconc can overwrite pass . | Clause 24.1 | m | y |
| 20 | Sem_2401_LocalVerdict_006 | Ensure overwriting rules for local verdict: fail can overwrite pass . | Clause 24.1 | m | y |
| 21 | Sem_2401_LocalVerdict_007 | Ensure overwriting rules for local verdict: none can't overwrite inconc . | Clause 24.1 | m | y |
| 22 | Sem_2401_LocalVerdict_008 | Ensure overwriting rules for local verdict: pass can't overwrite inconc . | Clause 24.1 | m | y |
| 23 | Sem_2401_LocalVerdict_009 | Ensure overwriting rules for local verdict: fail can overwrite inconc . | Clause 24.1 | m | y |
| 24 | Sem_2401_LocalVerdict_010 | Ensure overwriting rules for local verdict: none can't overwrite fail . | Clause 24.1 | m | y |
| 25 | Sem_2401_LocalVerdict_011 | Ensure overwriting rules for local verdict: pass can't overwrite fail . | Clause 24.1 | m | y |
| 26 | Sem_2401_LocalVerdict_012 | Ensure overwriting rules for local verdict: inconc can't overwrite fail . | Clause 24.1 | m | y |
| 27 | Syn_2401_FiveValues_001 | There are five values of verdicttype | 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 setverdict accepts parameters of verdicttype only | Clause 24.2 | m | y |
| 2 | NegSem_2402_setverdict_params_002 | Ensure setverdict accepts parameters of verdicttype 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 setverdict accepts values of verdicttype only | Clause 24.2 | m | y |
| 4 | NegSem_2402_setverdict_params_004 | Ensure setverdict accepts values only as the parameter | Clause 24.2 | m | y |
| 5 | NegSem_2402_setverdict_params_005 | Ensure setverdict 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 setverdict accepts values only as the parameter | Clause 24.2 | m | y |
| 8 | Sem_2402_setverdict_params_002 | Ensure setverdict 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 getverdict returns the actual verdict none | Clause 24.3 | m | y |
| 2 | Sem_2403_getverdict_002 | Ensure getverdict returns the actual verdict inconc | Clause 24.3 | m | y |
| 3 | Sem_2403_getverdict_003 | Ensure getverdict returns the actual verdict pass | Clause 24.3 | m | y |
| 4 | Sem_2403_getverdict_004 | Ensure getverdict returns the actual verdict fail | Clause 24.3 | m | y |
| 5 | Sem_2403_getverdict_005 | Ensure getverdict none 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 | if-else constructs in the control part are accepted. | Clause 26 | m | y |
| 3 | Syn_26_ModuleControl_003 | select-case constructs in the control part are accepted. | Clause 26 | m | y |
| 4 | Syn_26_ModuleControl_004 | for loop constructs in the control part are accepted. | Clause 26 | m | y |
| 5 | Syn_26_ModuleControl_005 | while loop constructs in the control part are accepted. | Clause 26 | m | y |
| 6 | Syn_26_ModuleControl_006 | label and goto constructs in the control part are accepted. | Clause 26 | m | y |
| 7 | Syn_26_ModuleControl_007 | The stop construct in the control part is accepted. | Clause 26 | m | y |
| 8 | Syn_26_ModuleControl_008 | The break construct in the control part is accepted. | Clause 26 | m | y |
| 9 | Syn_26_ModuleControl_009 | The continue construct in the control part is accepted. | Clause 26 | m | y |
| 10 | Syn_26_ModuleControl_010 | The continue construct in the control part is accepted. | Clause 26 | m | y |
| 11 | Syn_26_ModuleControl_011 | The alt/timeout construct in the control part is accepted. | Clause 26 | m | y |
| 12 | Syn_26_ModuleControl_012 | The repeat construct in the control part is accepted. | Clause 26 | m | y |
| 13 | Syn_26_ModuleControl_013 | The interleave 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 | start/stop/read/running timer constructs in the control part are accepted. | Clause 26 | m | y |
| 15 | Syn_26_ModuleControl_016 | The action construct in the control part is accepted. | Clause 26 | m | y |
| 16 | Syn_26_ModuleControl_017 | The execute 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 timeout parameters in the execute statement are rejected (in this case int). | Clause 26.1 | m | y |
| 2 | NegSem_2601_ExecuteStatement_002 | Non-float timeout parameters in the execute 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 execute 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 none works correctly. | Clause 26.1 | m | y |
| 9 | Sem_2601_ExecuteStatement_005 | The verdict pass works correctly. | Clause 26.1 | m | y |
| 10 | Sem_2601_ExecuteStatement_006 | The verdict inconc works correctly. | Clause 26.1 | m | y |
| 11 | Sem_2601_ExecuteStatement_007 | The timeout specified with the execute 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 | setverdict statements are not allowed in the control part. | Clause 26.2 | m | y |
| 2 | NegSem_2602_TheControlPart_002 | The create component is not allowed in the control part. | Clause 26.2 | m | y |
| 3 | NegSem_2602_TheControlPart_003 | The create alive component is not allowed in the control part. | Clause 26.2 | m | y |
| 4 | NegSem_2602_TheControlPart_004 | The start 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 stop statement is not allowed in the control part. | Clause 26.2 | m | y |
| 6 | NegSem_2602_TheControlPart_006 | The kill statement is not allowed in the control part. | Clause 26.2 | m | y |
| 7 | NegSem_2602_TheControlPart_007 | The alive operation is not allowed in the control part. | Clause 26.2 | m | y |
| 8 | NegSem_2602_TheControlPart_008 | The running operation is not allowed in the control part. | Clause 26.2 | m | y |
| 9 | NegSem_2602_TheControlPart_009 | The done operation is not allowed in the control part. | Clause 26.2 | m | y |
| 10 | NegSem_2602_TheControlPart_010 | The killed operation is not allowed in the control part. | Clause 26.2 | m | y |
| 11 | NegSem_2602_TheControlPart_011 | The connect statements are not allowed in the control part. | Clause 26.2 | m | y |
| 12 | NegSem_2602_TheControlPart_012 | The disconnect statements are not allowed in the control part. | Clause 26.2 | m | y |
| 13 | NegSem_2602_TheControlPart_013 | The map statements are not allowed in the control part. | Clause 26.2 | m | y |
| 14 | NegSem_2602_TheControlPart_014 | The unmap statements are not allowed in the control part. | Clause 26.2 | m | y |
| 15 | NegSem_2602_TheControlPart_015 | The send statements are not allowed in the control part. | Clause 26.2 | m | y |
| 16 | NegSem_2602_TheControlPart_016 | The receive statements are not allowed in the control part. | Clause 26.2 | m | y |
| 17 | NegSem_2602_TheControlPart_017 | The call 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 reply statements are not allowed in the control part. | Clause 26.2 | m | y |
| 19 | NegSem_2602_TheControlPart_019 | The raise statements are not allowed in the control part. | Clause 26.2 | m | y |
| 20 | NegSem_2602_TheControlPart_020 | The trigger statements are not allowed in the control part. | Clause 26.2 | m | y |
| 21 | NegSem_2602_TheControlPart_021 | The getcall statements are not allowed in the control part. | Clause 26.2 | m | y |
| 22 | NegSem_2602_TheControlPart_022 | The getreply statements are not allowed in the control part. | Clause 26.2 | m | y |
| 23 | NegSem_2602_TheControlPart_023 | The catch statements are not allowed in the control part. | Clause 26.2 | m | y |
| 24 | NegSem_2602_TheControlPart_024 | The check statements are not allowed in the control part. | Clause 26.2 | m | y |
| 25 | NegSem_2602_TheControlPart_025 | The clear statements are not allowed in the control part. | Clause 26.2 | m | y |
| 26 | NegSem_2602_TheControlPart_026 | The start statements on ports are not allowed in the control part. | Clause 26.2 | m | y |
| 27 | NegSem_2602_TheControlPart_027 | The stop statements on ports are not allowed in the control part. | Clause 26.2 | m | y |
| 28 | NegSem_2602_TheControlPart_028 | The halt 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 | Getverdict 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 | Execute statements are not executed from test cases. | Clause 26.1 | m | y |
| 32 | NegSem_2602_TheControlPart_032 | The create alive named component is not allowed in the control part. | Clause 26.2 | m | y |
| 33 | NegSem_2602_TheControlPart_033 | The create named component is not allowed in the control part. | Clause 26.2 | m | y |
| 34 | NegSem_2602_TheControlPart_034 | The create 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|---------------------------------|-------------------------------------------------------------------------|---------------------------|--------|---------|
| 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

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|---------------------------------------|----------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|---------------------------------------|---------------------------------------------------------------------------|---------------------------|--------|---------|
| 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

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-------------------------------|-----------------------------------------------------------------------|---------------------------|--------|---------|
| 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 from 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_0 02 | The IUT correctly handles template matching of complemented value listing | Clause B.1.2.2 | m | y |
| 7 | Sem_B010202_complemente d_value_list_0 03 | The IUT correctly handles template matching of complemented value listing | Clause B.1.2.2 | m | y |
| 8 | Sem_B010202_complemente d_value_list_0 04 | The IUT correctly handles template matching of complemented value listing | Clause B.1.2.2 | m | y |
| 9 | Sem_B010202_complemente d_value_list_0 05 | The IUT correctly handles template matching of complemented value listing | Clause B.1.2.2 | m | y |
| 10 | Sem_B010202_complemente d_value_list_0 06 | The IUT correctly handles template matching of complemented value listing | Clause B.1.2.2 | m | y |
| 11 | Sem_B010202_complemente d_value_list_0 07 | The IUT correctly handles template matching of complemented value listing | Clause B.1.2.2 | m | y |
| 12 | Sem_B010202_complemente d_value_list_0 08 | 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-----------------------------|------------------------------------------------------------------------|---------------------------|--------|---------|
| 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

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-----------------------------|---------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-----------------------------|---------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|--------------------------|--------------------------------------------------------------------|---------------------------|--------|---------|
| 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

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|---------------------------|-------------------------------------------------------------------|---------------------------|--------|---------|
| 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 |

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|------------------------|-------------------------------------------------------------------|---------------------------|--------|---------|
| 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

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-------------------------------|------------------------------------------------------------|---------------------------|--------|---------|
| 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

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-----------------------------|----------------------------------------------------------------------------|---------------------------|--------|---------|
| 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

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|------------------------------------------------|----------------------------------------------------------------------------|---------------------------|--------|---------|
| 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 from clause can be used inside permutation | Clause B.1.3.3 | m | y |
| 14 | Sem_B010303_permutation_008 | All from clause operand can be a set of value | Clause B.1.3.3 | m | y |
| 15 | Sem_B010303_permutation_009 | All from 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 ifpresent indicators | Clause B.1.4.2 | m | y |
| 2 | Sem_B010402_ifPresent_indicator_001 | The IUT correctly handles template matching of ifpresent indicators | Clause B.1.4.2 | m | y |
| 3 | Sem_B010402_ifPresent_indicator_002 | The IUT correctly handles template matching of ifpresent 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

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-----------------|---------|---------------------------|--------|---------|
|------|-----------------|---------|---------------------------|--------|---------|

| Item | TC/TP reference | purpose | Reference in ES 201 873-1 | Status | Support |
|------|-----------------------------------|----------------------------------------------------------------------------------|---------------------------|--------|---------|
| 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

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

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

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