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SmartM2M; Smart Appliances Ontology and Communication Framework Testing;

Part 3: Test Suite Structure and Test Purposes (TSS & TP)

Reference

DTS/SmartM2M-103 268-3_SAP_TSS

Keywords

IoT, M2M, Smart Appliance, testing, TSS&TP

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Smart Machine-to-Machine communications (SmartM2M).

The present document is part 3 of a multi-part deliverable covering Conformance test specifications for Smart Appliances Ontology and Communication Framework Testing, as identified below:

Part 1: "Testing methodology";

Part 2: "Protocol Implementation Conformance Statement (PICS) pro forma";

Part 3: "Test Suite Structure and Test Purposes (TSS & TP)";

Part 4: "Abstract Test Suite (ATS) and Protocol Implementation eXtra Information for Testing (PIXIT)".

Modal verbs terminology

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

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1 Scope

The present document provides the Test Suite Structure and Test Purposes (TSS & TP) for Conformance test specifications for Smart Appliances testing as defined in ETSI TS 103 268-1 [3] and ETSI TS 118 115 [5] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [4].

2 References

2.1 Normative references

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

Referenced documents which are not found to be publicly available in the expected location might be found at https://docbox.etsi.org/Reference.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

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

- [1] ETSI TS 103 264: "SmartM2M; Smart Appliances; Reference Ontology and oneM2M Mapping".
 [2] ETSI TS 118 112: "oneM2M; Base Ontology (oneM2M TS-00012)".
- [3] ETSI TS 103 268-1: "SmartM2M; Smart Appliances Ontology and Communication Framework Testing; Part 1: Testing methodology".
- [4] ISO/IEC 9646-7: "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 7: Implementation Conformance Statements".
- [5] ETSI TS 118 115: "oneM2M; Testing Framework (oneM2M TS-0015)".

2.2 Informative references

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

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

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.

Not applicable.

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in ETSI TS 103 268-1 [3], in ETSI TS 118 112 [2] and in ISO/IEC 9646-7 [4] apply.

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in ETSI TS 103 268-1 [3], ETSI TS 103 264 [1] and ETSI TS 118 112 [2] and the following apply:

API	Application Programming Interface
EUT	Equipment Under Test
IFS	Interoperable Features Statement
IUT	Implementation Under Test
IWF	InterWorking Function
PICS	Protocol Implementation Conformance Statement
QE	Qualified Equipment
RP	Reference Point
SAP	Smart Appliance
SUT	System Under Test
TP	Test Purpose
TSS	Test Suite Structure

4 Prerequisites and Test Configurations

4.1 Test Configurations

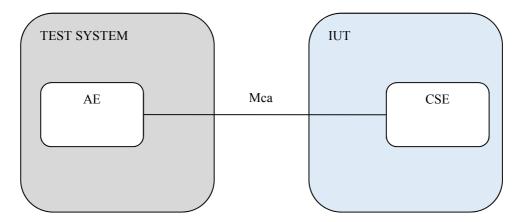


Figure 4.1-1: Test configuration 1 (CF01)

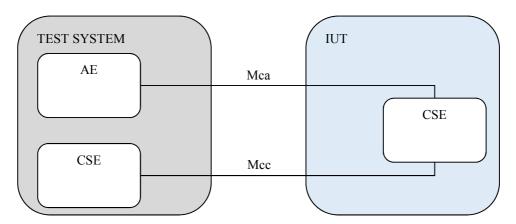


Figure 4.1-2: Test configuration 2 (CF02)

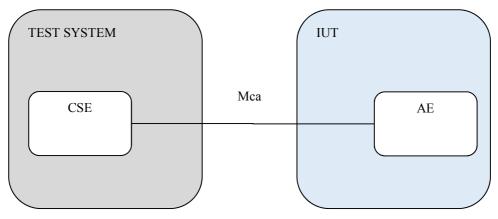


Figure 4.1-3: Test configuration 3 (CF03)

5 Test Suite Structure (TSS)

5.1 Structure for SAP tests

Table 5.1-1 shows SAP Test Suite Structure (TSS) including its subgroups defined for conformance testing.

Table 5.1-1: TSS for oneM2M

Root	Group	Sub-group	category
SAP	SAREF		Valid behaviour
			Valid behaviour

The test suite is structured as a tree with the root defined as SAP. The tree is of rank 3 with the first rank a Group, the second a Sub-group and the third a Category. The third rank is the standard ISO conformance test categories.

6 Test Purposes (TP)

6.1 Introduction

6.1.1 TP definition conventions

The TPs are defined by the rules shown in table 6.1.1-1.

Table 6.1.1-1: TP definition rules

	TP Header	
TP ID	The TP ID is a unique identifier. It shall be specified according to the TP naming conventions defined in clause 6.1.2.	
Test objective	Short description of test purpose objective according to the requirements from the base standard.	
Reference	The reference indicates the sub-clauses of the reference standard specifications in which the conformance requirement is expressed.	
PICS Selection	Reference to the PICS statement involved for selection of the TP. Contains a Boolean expression.	
	TP Behaviour	
Initial conditions	The initial conditions define in which initial state the IUT has to be to apply the actual TP. In the corresponding Test Case, when the execution of the initial condition does not succeed, it leads to the assignment of an Inconclusive verdict.	
Expected behaviour (TP body)	Definition of the events, which are parts of the TP objective, and the IUT are expected to perform in order to conform to the base specification. In the corresponding Test Case, Pass or Fail verdicts can be assigned there.	
Final conditions	Definition of the events that the IUT is expected to perform or shall not perform, according to the base standard and following the correct execution of the actions in the expected behaviour above. In the corresponding Test Case, the execution of the final conditions is evaluated for the assignment of the final verdict.	

6.1.2 TP Identifier naming conventions

The identifier of the TP is built according to table 6.1.2-1.

Table 6.1.2-1: TP naming convention

Identifier:	TP/ <root>/<gr>/<sgr>/<x>/<nn></nn></x></sgr></gr></root>		
	<root> = root</root>		
	<gr> = group</gr>		
	<sgr> = subgroup</sgr>		
	<x> = type of testing</x>	BV	Valid Behaviour tests
		BI	Invalid Syntax or Behaviour Tests
		ВО	Inopportune Behaviour
	<nn> = sequential number</nn>		01 to 99

6.1.3 Rules for the behaviour description

The description of the TP is built according to ETSI TS 103 268-1 [3].

6.1.4 Sources of TP definitions

All TPs are specified according to ETSI TS 103 264 [1] and ETSI TS 118 112 [2].

6.1.5 Mnemonics for PICS reference

To avoid an update of all TP tables when the PICS document is changed, table 6.1.5-1 introduce mnemonics name and the correspondence with the real PICS item number.

Table 6.1.5-1: Mnemonics for PICS reference

Mnemonic	PICS item
PICS_AE	A.5.1/1 [1]
PICS_CONTAINER	A.5.1/1 [1]
PICS_FLEXCONTAINER	A.5.1/1 [1]
PICS_GENERIC_IWK_SERVICE	A.5.1/1 [1]
PICS GENERIC_IWK_OP_INSTANCE	A.5.1/1 [1]
PICS_DEVICE	A.5.2/1 [1]
PICS_FUNCTION	A.5.3/1 [1]
PICS_ PROPERTY	A.5.5/1 [1]
PICS_ COMMAND	A.5.6/1 [1]
PICS_DEVICECATEGORY	A.5.7/1 [1]
PICS_STATE	A.5.8/1 [1]
PICS_TASK	A.5.9/1 [1]
PICS_UNITOFMESURE	A.5.10/1 [1]
PICS_COMMODITY	A.5.11/1 [1]
PICS_BUILDINGOBJECT	A.5.12/1 [1]
PICS_BUILDINGSPACE	A.5.13/1 [1]
PICS_PROFILE	A.5.14/1 [1]
PICS_FUNCTIONCATEGORY	A.5.15/1 [1]
PICS_OBJECTPROPERTY	A.5.16/1 [1]
PICS_DATATYPE	A.5.17/1 [1]
PICS_OPERATION	A.5.18/1 [1]
PICS_THING	A.5.19/1 [1]
PICS_ASPECT	A.5.20/1 [1]

6.2 Test purposes for SAP Testing

6.2.1 SAREF

TP Id	TP/SAP/SAREF/BV/001		
Test objective	Check that the IUT creates for an instantiation of a <i>class</i> of the Base Ontology a oneM2M		
	resource of type < semanticDescriptor> containing a descriptor attribute containing the		
	instantiated class in RDF data.		
Reference	ETSI TS 118 112 [2], clause 7.1.1.1		
Config Id	CF03		
PICS Selection	PICS_AE		
Initial conditions	with {		
	the CSE being in the "initial state" and		
	the IUT having an ontology instance containing an instantiation of a <i>class</i> of the Base		
	Ontology and		
	the IUT having privileges to perform CREATE operation		
	}		
Expected behaviour	Test events		
	when {		
	when { the IUT starts and registers		
	the IUT starts and registers }		
	the IUT starts and registers } then {		
	the IUT starts and registers } then { the IUT sends a valid CREATE request containing		
	the IUT starts and registers } then { the IUT sends a valid CREATE request containing To set to address of <ae> resource and</ae>		
	the IUT starts and registers } then { the IUT sends a valid CREATE request containing		
	the IUT starts and registers } then { the IUT sends a valid CREATE request containing		
	the IUT starts and registers } then { the IUT sends a valid CREATE request containing		
	the IUT starts and registers } then { the IUT sends a valid CREATE request containing To set to address of <ae> resource and Resource-Type set to <semanticdescriptor> and From set to AE-ID and Content containing <semanticdescriptor> resource containing</semanticdescriptor></semanticdescriptor></ae>		
	the IUT starts and registers } then { the IUT sends a valid CREATE request containing		
	the IUT starts and registers } then { the IUT sends a valid CREATE request containing To set to address of <ae> resource and Resource-Type set to <semanticdescriptor> and From set to AE-ID and Content containing <semanticdescriptor> resource containing</semanticdescriptor></semanticdescriptor></ae>		
	the IUT starts and registers } then { the IUT sends a valid CREATE request containing		
	the IUT starts and registers } then { the IUT sends a valid CREATE request containing		

TP Id	Class
TP/SAP/SAREF/BV/001_01	saref:Device
TP/SAP/SAREF/BV/001_02	saref:Door switch
TP/SAP/SAREF/BV/001_03	saref:Energy meter
TP/SAP/SAREF/BV/001_04	saref:Light switch
TP/SAP/SAREF/BV/001_05	saref:Meter
TP/SAP/SAREF/BV/001_06	saref:Sensor
TP/SAP/SAREF/BV/001_07	saref:Smoke sensor
TP/SAP/SAREF/BV/001_08	saref:Switch
TP/SAP/SAREF/BV/001_09	saref:Temperature sensor
TP/SAP/SAREF/BV/001_10	saref:Washing machine
TP/SAP/SAREF/BV/001_11	saref:Service
TP/SAP/SAREF/BV/001_12	saref:Switch on service
TP/SAP/SAREF/BV/001_13	saref:Function
TP/SAP/SAREF/BV/001_14	saref:Actuating function
TP/SAP/SAREF/BV/001_15	saref:On off function
TP/SAP/SAREF/BV/001_16	saref:Open close function
TP/SAP/SAREF/BV/001_17	saref:start stopfunction
TP/SAP/SAREF/BV/001_18	saref:Event function
TP/SAP/SAREF/BV/001_19	saref:Metering function
TP/SAP/SAREF/BV/001_20	saref:Sensing function
TP/SAP/SAREF/BV/001_21	saref:Command
TP/SAP/SAREF/BV/001_22	saref:Close command
TP/SAP/SAREF/BV/001_23	saref:Get command
TP/SAP/SAREF/BV/001_24	saref:Get current meter value command
TP/SAP/SAREF/BV/001_25	saref:Get meter data command
TP/SAP/SAREF/BV/001_26	saref:Get meter history command
TP/SAP/SAREF/BV/001_27	saref:Get sensing data command
TP/SAP/SAREF/BV/001_28	saref:Notify command
TP/SAP/SAREF/BV/001_29	saref:Off command
TP/SAP/SAREF/BV/001_30	saref:On command
TP/SAP/SAREF/BV/001_31	saref:Open command
TP/SAP/SAREF/BV/001_32	saref:Pause command
TP/SAP/SAREF/BV/001_33	saref:Set level command
TP/SAP/SAREF/BV/001_34	saref:Set absolute level command
TP/SAP/SAREF/BV/001_35	saref:Set relative level command
TP/SAP/SAREF/BV/001_36	saref:Start command
TP/SAP/SAREF/BV/001_37	saref:Step down command
TP/SAP/SAREF/BV/001_38	saref:Step up command
TP/SAP/SAREF/BV/001_39	saref:Stop command
TP/SAP/SAREF/BV/001_40	saref:Toggle command

TP Id	TP/SAP/SAREF/BV/002		
Test objective	Check that the IUT creates for an instantiation of a class of the Base Ontology a oneM2M		
rest objective	resource of type <semanticdescriptor> containing an Ontology-Ref attribute that identifies the</semanticdescriptor>		
	instantiated class.		
Reference	Total Marca Class.		
	ETSI TS 118 112 [2], clause 7.1.1.1		
Config Id	CF03		
PICS Selection	PICS_AE		
Initial conditions	with {		
	the CSE being in the "initial state" and		
	the IUT having an ontology instance containing		
	an instantiation of a class of the Base Ontology		
	the IUT having privileges to perform CREATE operation		
)		
	r Test events		
Expected behaviour	Test events		
Expected behaviour	Test events when {		
Expected behaviour			
Expected behaviour	when {		
Expected behaviour	when { the IUT starts and registers }		
Expected behaviour	when { the IUT starts and registers } then {		
Expected behaviour	when { the IUT starts and registers }		
Expected behaviour	when { the IUT starts and registers } then { the IUT sends a valid CREATE request containing		
Expected behaviour	when { the IUT starts and registers } then { the IUT sends a valid CREATE request containing		
Expected behaviour	when { the IUT starts and registers } then { the IUT sends a valid CREATE request containing To set to address of <ae> resource and Resource-Type set to <semanticdescriptor> and From set to AE-ID and</semanticdescriptor></ae>		
Expected behaviour	when { the IUT starts and registers } then { the IUT sends a valid CREATE request containing To set to address of <ae> resource and Resource-Type set to < semanticDescriptor> and From set to AE-ID and Content containing</ae>		
Expected behaviour	when { the IUT starts and registers } then { the IUT sends a valid CREATE request containing To set to address of <ae> resource and Resource-Type set to <semanticdescriptor> and From set to AE-ID and Content containing <semanticdescriptor> resource containing</semanticdescriptor></semanticdescriptor></ae>		
Expected behaviour	when { the IUT starts and registers } then { the IUT sends a valid CREATE request containing To set to address of <ae> resource and Resource-Type set to <semanticdescriptor> and From set to AE-ID and Content containing <semanticdescriptor> resource containing Ontology-Ref set to an URI that identifies the instantiated</semanticdescriptor></semanticdescriptor></ae>		
Expected behaviour	when { the IUT starts and registers } then { the IUT sends a valid CREATE request containing To set to address of <ae> resource and Resource-Type set to <semanticdescriptor> and From set to AE-ID and Content containing <semanticdescriptor> resource containing</semanticdescriptor></semanticdescriptor></ae>		

TP/SAP/SAREF/BV/002_01 TP/SAP/SAREF/BV/002_02 Saref:Door switch TP/SAP/SAREF/BV/002_03 Saref:Energy meter TP/SAP/SAREF/BV/002_04 Saref:Light switch TP/SAP/SAREF/BV/002_05 Saref:Meter TP/SAP/SAREF/BV/002_06 Saref:Sensor TP/SAP/SAREF/BV/002_07 TP/SAP/SAREF/BV/002_08 Saref:Smoke sensor TP/SAP/SAREF/BV/002_08 Saref:Smoke sensor TP/SAP/SAREF/BV/002_09 Saref:Smoke sensor TP/SAP/SAREF/BV/002_09 Saref:Smoke sensor TP/SAP/SAREF/BV/002_10 TP/SAP/SAREF/BV/002_10 Saref:Switch TP/SAP/SAREF/BV/002_11 Saref:Switch on service TP/SAP/SAREF/BV/002_11 Saref:Switch on service TP/SAP/SAREF/BV/002_12 Saref:Switch on service TP/SAP/SAREF/BV/002_12 Saref:Switch on service TP/SAP/SAREF/BV/002_13 Saref:Actuating function TP/SAP/SAREF/BV/002_14 Saref:Actuating function TP/SAP/SAREF/BV/002_15 Saref:Open close function TP/SAP/SAREF/BV/002_16 Saref:Open close function TP/SAP/SAREF/BV/002_17 Saref:Start stopfunction TP/SAP/SAREF/BV/002_18 Saref:Sensing function TP/SAP/SAREF/BV/002_19 Saref:Metering function TP/SAP/SAREF/BV/002_19 Saref:Sensing function TP/SAP/SAREF/BV/002_20 Saref:Sensing function TP/SAP/SAREF/BV/002_21 Saref:Command TP/SAP/SAREF/BV/002_21 Saref:Get command TP/SAP/SAREF/BV/002_23 Saref:Get command TP/SAP/SAREF/BV/002_25 Saref:Get meter history command TP/SAP/SAREF/BV/002_26 Saref:Get meter history command TP/SAP/SAREF/BV/002_27 Saref:Get sensing data command TP/SAP/SAREF/BV/002_29 Saref:Get meter history command TP/SAP/SAREF/BV/002_30 Saref:Get meter history command TP/SAP/SAREF/BV/002_31 Saref:Get sensing data command TP/SAP/SAREF/BV/002_31 Saref:Get meter history command TP/SAP/SAREF/BV/002_31 Saref:Get sensing data command TP/SAP/SAREF/BV/002_31 Saref:Get meter history command TP/SAP/SAREF/BV/002_31 Saref:Set level command TP/SAP/SAREF/BV/002_31 Saref:Set level command TP/SAP/SAREF/BV/002_33 Saref:Set poundmand TP/SAP/SAREF/BV/002_39 Saref:Stop command TP/SAP/	TP Id	Class
TP/SAP/SAREF/BV/002 3 saref:Light switch TP/SAP/SAREF/BV/002 TP/SAP/SAREF/BV/002 04 saref:Meter Saref:Meter TP/SAP/SAREF/BV/002 06 TP/SAP/SAREF/BV/002 saref:Sensor TP/SAP/SAREF/BV/002 07 Saref:Sensor saref:Smoke sensor TP/SAP/SAREF/BV/002 0 saref:Switch saref:Service TP/SAP/SAREF/BV/002 10 saref:Mashing machine TP/SAP/SAREF/BV/002 TP/SAP/SAREF/BV/002 11 saref:Service Switch on service TP/SAP/SAREF/BV/002 12 saref:Switch on service 3eref:Switch on service TP/SAP/SAREF/BV/002 13 saref:Function saref:Switch on service TP/SAP/SAREF/BV/002 14 saref:Saref-BV/002 14 saref:Saref-BV/SAREF/BV/002 15 saref:Saref-BV/SAREF/BV/002 16 saref:Saref-BV/SAREF/BV/002 18 saref:Sensing function 17/SAP/SAREF/BV/002 TP/SAP/SAREF/BV/002 19	TP/SAP/SAREF/BV/002_01	saref:Device
TP/SAP/SAREF/BV/002 3 saref:Light switch TP/SAP/SAREF/BV/002 TP/SAP/SAREF/BV/002 04 saref:Meter Saref:Meter TP/SAP/SAREF/BV/002 06 TP/SAP/SAREF/BV/002 saref:Sensor TP/SAP/SAREF/BV/002 07 Saref:Sensor saref:Smoke sensor TP/SAP/SAREF/BV/002 0 saref:Switch saref:Service TP/SAP/SAREF/BV/002 10 saref:Mashing machine TP/SAP/SAREF/BV/002 TP/SAP/SAREF/BV/002 11 saref:Service Switch on service TP/SAP/SAREF/BV/002 12 saref:Switch on service 3eref:Switch on service TP/SAP/SAREF/BV/002 13 saref:Function saref:Switch on service TP/SAP/SAREF/BV/002 14 saref:Saref-BV/002 14 saref:Saref-BV/SAREF/BV/002 15 saref:Saref-BV/SAREF/BV/002 16 saref:Saref-BV/SAREF/BV/002 18 saref:Sensing function 17/SAP/SAREF/BV/002 TP/SAP/SAREF/BV/002 19	TP/SAP/SAREF/BV/002_02	saref:Door switch
TP/SAP/SAREF/BV/002_04 saref:Light switch TP/SAP/SAREF/BV/002_05 saref:Meter TP/SAP/SAREF/BV/002_06 saref:Sensor TP/SAP/SAREF/BV/002_07 saref:Smoke sensor TP/SAP/SAREF/BV/002_08 saref:Smoke sensor TP/SAP/SAREF/BV/002_09 saref:Temperature sensor TP/SAP/SAREF/BV/002_10 saref:Switch TP/SAP/SAREF/BV/002_11 saref:Service TP/SAP/SAREF/BV/002_12 saref:Switch on service TP/SAP/SAREF/BV/002_13 saref:Function TP/SAP/SAREF/BV/002_14 saref:Scrvice TP/SAP/SAREF/BV/002_15 saref:On off function TP/SAP/SAREF/BV/002_15 saref:On off function TP/SAP/SAREF/BV/002_16 saref:Open close function TP/SAP/SAREF/BV/002_17 saref:Sersitart stopfunction TP/SAP/SAREF/BV/002_18 saref:Event function TP/SAP/SAREF/BV/002_19 saref:Sensing function TP/SAP/SAREF/BV/002_2 saref:Sensing function TP/SAP/SAREF/BV/002_2 saref:Get command TP/SAP/SAREF/BV/002_2 saref:Get command TP/SAP/SAREF/BV/002_2 saref:Get meter data command TP/SAP/SAREF/		
TP/SAP/SAREF/BV/002_06 saref:Sensor TP/SAP/SAREF/BV/002_07 saref:Smoke sensor TP/SAP/SAREF/BV/002_09 saref:Switch TP/SAP/SAREF/BV/002_10 saref:Temperature sensor TP/SAP/SAREF/BV/002_11 saref:Service TP/SAP/SAREF/BV/002_11 saref:Service TP/SAP/SAREF/BV/002_12 saref:Switch on service TP/SAP/SAREF/BV/002_13 saref:Function TP/SAP/SAREF/BV/002_14 saref:Actuating function TP/SAP/SAREF/BV/002_15 saref:On off function TP/SAP/SAREF/BV/002_16 saref:Open close function TP/SAP/SAREF/BV/002_17 saref:Start stopfunction TP/SAP/SAREF/BV/002_18 saref:Event function TP/SAP/SAREF/BV/002_19 saref:Metering function TP/SAP/SAREF/BV/002_20 saref:Metering function TP/SAP/SAREF/BV/002_21 saref:Get command TP/SAP/SAREF/BV/002_22 saref:Get command TP/SAP/SAREF/BV/002_23 saref:Get current meter value command TP/SAP/SAREF/BV/002_24 saref:Get meter data command TP/SAP/SAREF/BV/002_25 saref:Get meter history command TP/SAP/SAREF/BV/002_29 saref:Get sensing data c	TP/SAP/SAREF/BV/002_04	
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TP/SAP/SAREF/BV/002_09 saref:Temperature sensor TP/SAP/SAREF/BV/002_10 saref:Temperature sensor TP/SAP/SAREF/BV/002_11 saref:Washing machine TP/SAP/SAREF/BV/002_12 saref:Service TP/SAP/SAREF/BV/002_13 saref:Service TP/SAP/SAREF/BV/002_13 saref:Function TP/SAP/SAREF/BV/002_13 saref:Actuating function TP/SAP/SAREF/BV/002_14 saref:Actuating function TP/SAP/SAREF/BV/002_15 saref:On off function TP/SAP/SAREF/BV/002_16 saref:Open close function TP/SAP/SAREF/BV/002_17 saref:Setsetsetsetsetsetsetsetsetsetsetsetsetse	TP/SAP/SAREF/BV/002_06	
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TP/SAP/SAREF/BV/002_11 TP/SAP/SAREF/BV/002_12 saref:Service TP/SAP/SAREF/BV/002_12 saref:Service TP/SAP/SAREF/BV/002_13 saref:Function TP/SAP/SAREF/BV/002_14 saref:Actuating function TP/SAP/SAREF/BV/002_15 saref:Open close function TP/SAP/SAREF/BV/002_16 saref:Open close function TP/SAP/SAREF/BV/002_17 saref:Open close function TP/SAP/SAREF/BV/002_18 saref:Event function TP/SAP/SAREF/BV/002_19 saref:Sensing function TP/SAP/SAREF/BV/002_20 saref:Sensing function TP/SAP/SAREF/BV/002_21 saref:Command TP/SAP/SAREF/BV/002_22 saref:Close command TP/SAP/SAREF/BV/002_23 saref:Get current meter value command TP/SAP/SAREF/BV/002_24 saref:Get meter data command TP/SAP/SAREF/BV/002_25 saref:Get meter history command TP/SAP/SAREF/BV/002_27 saref:Get sensing data command TP/SAP/SAREF/BV/002_28 saref:Get sensing data command TP/SAP/SAREF/BV/002_29 saref:Open command TP/SAP/SAREF/BV/002_30 saref:Open command TP/SAP/SAREF/BV/002_31 saref:Open command TP/SAP/SAREF/BV/002_31 saref:Open command TP/SAP/SAREF/BV/002_31 saref:Set level command TP/SAP/SAREF/BV/002_33 saref:Pause command TP/SAP/SAREF/BV/002_34 saref:Set level command TP/SAP/SAREF/BV/002_35 saref:Set relative level command TP/SAP/SAREF/BV/002_36 saref:Set relative level command TP/SAP/SAREF/BV/002_37 saref:Step up command TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_39	TP/SAP/SAREF/BV/002_08	saref:Switch
TP/SAP/SAREF/BV/002_11 TP/SAP/SAREF/BV/002_12 saref:Service TP/SAP/SAREF/BV/002_12 saref:Service TP/SAP/SAREF/BV/002_13 saref:Function TP/SAP/SAREF/BV/002_14 saref:Actuating function TP/SAP/SAREF/BV/002_15 saref:Open close function TP/SAP/SAREF/BV/002_16 saref:Open close function TP/SAP/SAREF/BV/002_17 saref:Open close function TP/SAP/SAREF/BV/002_18 saref:Event function TP/SAP/SAREF/BV/002_19 saref:Sensing function TP/SAP/SAREF/BV/002_20 saref:Sensing function TP/SAP/SAREF/BV/002_21 saref:Command TP/SAP/SAREF/BV/002_22 saref:Close command TP/SAP/SAREF/BV/002_23 saref:Get current meter value command TP/SAP/SAREF/BV/002_24 saref:Get meter data command TP/SAP/SAREF/BV/002_25 saref:Get meter history command TP/SAP/SAREF/BV/002_27 saref:Get sensing data command TP/SAP/SAREF/BV/002_28 saref:Get sensing data command TP/SAP/SAREF/BV/002_29 saref:Open command TP/SAP/SAREF/BV/002_30 saref:Open command TP/SAP/SAREF/BV/002_31 saref:Open command TP/SAP/SAREF/BV/002_31 saref:Open command TP/SAP/SAREF/BV/002_31 saref:Set level command TP/SAP/SAREF/BV/002_33 saref:Pause command TP/SAP/SAREF/BV/002_34 saref:Set level command TP/SAP/SAREF/BV/002_35 saref:Set relative level command TP/SAP/SAREF/BV/002_36 saref:Set relative level command TP/SAP/SAREF/BV/002_37 saref:Step up command TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_39	TP/SAP/SAREF/BV/002_09	saref:Temperature sensor
TP/SAP/SAREF/BV/002_13 TP/SAP/SAREF/BV/002_14 Saref:Actuating function TP/SAP/SAREF/BV/002_15 Saref:On off function TP/SAP/SAREF/BV/002_16 Saref:Open close function TP/SAP/SAREF/BV/002_17 Saref:Start stopfunction TP/SAP/SAREF/BV/002_18 Saref:Event function TP/SAP/SAREF/BV/002_19 TP/SAP/SAREF/BV/002_19 Saref:Sensing function TP/SAP/SAREF/BV/002_20 Saref:Sensing function TP/SAP/SAREF/BV/002_21 Saref:Close command TP/SAP/SAREF/BV/002_22 Saref:Get command TP/SAP/SAREF/BV/002_23 Saref:Get command TP/SAP/SAREF/BV/002_24 Saref:Get current meter value command TP/SAP/SAREF/BV/002_25 Saref:Get meter data command TP/SAP/SAREF/BV/002_26 Saref:Get meter history command TP/SAP/SAREF/BV/002_27 Saref:Get sensing data command TP/SAP/SAREF/BV/002_28 Saref:Off command TP/SAP/SAREF/BV/002_29 Saref:Off command TP/SAP/SAREF/BV/002_30 TP/SAP/SAREF/BV/002_31 Saref:Open command TP/SAP/SAREF/BV/002_31 Saref:Set level command TP/SAP/SAREF/BV/002_33 Saref:Set level command TP/SAP/SAREF/BV/002_33 Saref:Set level command TP/SAP/SAREF/BV/002_35 Saref:Set relative level command TP/SAP/SAREF/BV/002_36 Saref:Set relative level command TP/SAP/SAREF/BV/002_37 Saref:Set relative level command TP/SAP/SAREF/BV/002_38 Saref:Step up command TP/SAP/SAREF/BV/002_38 Saref:Step up command TP/SAP/SAREF/BV/002_38 Saref:Step up command	TP/SAP/SAREF/BV/002_10	saref:Washing machine
TP/SAP/SAREF/BV/002_14 TP/SAP/SAREF/BV/002_15 TP/SAP/SAREF/BV/002_15 Saref:On off function TP/SAP/SAREF/BV/002_16 Saref:Open close function TP/SAP/SAREF/BV/002_17 Saref:Start stopfunction TP/SAP/SAREF/BV/002_18 Saref:Event function TP/SAP/SAREF/BV/002_19 Saref:Event function TP/SAP/SAREF/BV/002_20 Saref:Sensing function TP/SAP/SAREF/BV/002_21 Saref:Command TP/SAP/SAREF/BV/002_22 Saref:Gose command TP/SAP/SAREF/BV/002_23 Saref:Get current meter value command TP/SAP/SAREF/BV/002_25 Saref:Get meter data command TP/SAP/SAREF/BV/002_26 Saref:Get meter history command TP/SAP/SAREF/BV/002_27 Saref:Get sensing data command TP/SAP/SAREF/BV/002_28 Saref:Get sensing data command TP/SAP/SAREF/BV/002_29 Saref:Off command TP/SAP/SAREF/BV/002_30 Saref:On command TP/SAP/SAREF/BV/002_31 Saref:On command TP/SAP/SAREF/BV/002_31 Saref:Open command TP/SAP/SAREF/BV/002_33 Saref:Set level command TP/SAP/SAREF/BV/002_34 Saref:Set absolute level command TP/SAP/SAREF/BV/002_35 Saref:Set relative level command TP/SAP/SAREF/BV/002_36 Saref:Set relative level command TP/SAP/SAREF/BV/002_36 Saref:Start command TP/SAP/SAREF/BV/002_37 Saref:Step up command TP/SAP/SAREF/BV/002_38 Saref:Step up command TP/SAP/SAREF/BV/002_38 Saref:Step up command TP/SAP/SAREF/BV/002_38 Saref:Step up command	TP/SAP/SAREF/BV/002_11	saref:Service
TP/SAP/SAREF/BV/002_15 TP/SAP/SAREF/BV/002_15 TP/SAP/SAREF/BV/002_16 TP/SAP/SAREF/BV/002_17 Saref:Copen close function TP/SAP/SAREF/BV/002_17 Saref:Spen close function TP/SAP/SAREF/BV/002_18 Saref:Event function TP/SAP/SAREF/BV/002_19 Saref:Sensing function TP/SAP/SAREF/BV/002_20 Saref:Sensing function TP/SAP/SAREF/BV/002_21 Saref:Command TP/SAP/SAREF/BV/002_22 Saref:Close command TP/SAP/SAREF/BV/002_23 TP/SAP/SAREF/BV/002_24 Saref:Get current meter value command TP/SAP/SAREF/BV/002_25 Saref:Get meter data command TP/SAP/SAREF/BV/002_26 Saref:Get meter history command TP/SAP/SAREF/BV/002_27 Saref:Get sensing data command TP/SAP/SAREF/BV/002_28 Saref:Get sensing data command TP/SAP/SAREF/BV/002_29 Saref:Off command TP/SAP/SAREF/BV/002_30 Saref:On command TP/SAP/SAREF/BV/002_31 Saref:Open command TP/SAP/SAREF/BV/002_31 Saref:Set level command TP/SAP/SAREF/BV/002_31 Saref:Set level command TP/SAP/SAREF/BV/002_31 Saref:Set level command TP/SAP/SAREF/BV/002_34 Saref:Set level command TP/SAP/SAREF/BV/002_35 Saref:Set relative level command TP/SAP/SAREF/BV/002_36 Saref:Set relative level command TP/SAP/SAREF/BV/002_37 Saref:Set pup command TP/SAP/SAREF/BV/002_38 Saref:Stet pup command TP/SAP/SAREF/BV/002_38 Saref:Stet pup command	TP/SAP/SAREF/BV/002_12	saref:Switch on service
TP/SAP/SAREF/BV/002_16 TP/SAP/SAREF/BV/002_16 TP/SAP/SAREF/BV/002_17 TP/SAP/SAREF/BV/002_17 TP/SAP/SAREF/BV/002_18 Saref:Start stopfunction TP/SAP/SAREF/BV/002_19 Saref:Sensing function TP/SAP/SAREF/BV/002_20 Saref:Sensing function TP/SAP/SAREF/BV/002_21 Saref:Command TP/SAP/SAREF/BV/002_21 Saref:Command TP/SAP/SAREF/BV/002_22 Saref:Get command TP/SAP/SAREF/BV/002_23 Saref:Get command TP/SAP/SAREF/BV/002_24 Saref:Get command TP/SAP/SAREF/BV/002_25 Saref:Get meter data command TP/SAP/SAREF/BV/002_26 Saref:Get meter history command TP/SAP/SAREF/BV/002_27 Saref:Get meter history command TP/SAP/SAREF/BV/002_28 Saref:Get sensing data command TP/SAP/SAREF/BV/002_29 Saref:Of command TP/SAP/SAREF/BV/002_30 Saref:On command TP/SAP/SAREF/BV/002_31 TP/SAP/SAREF/BV/002_31 Saref:Open command TP/SAP/SAREF/BV/002_33 Saref:Set level command TP/SAP/SAREF/BV/002_34 Saref:Set level command TP/SAP/SAREF/BV/002_35 Saref:Set relative level command TP/SAP/SAREF/BV/002_36 Saref:Set relative level command TP/SAP/SAREF/BV/002_37 Saref:Stet pup command TP/SAP/SAREF/BV/002_37 Saref:Stet pup command TP/SAP/SAREF/BV/002_38 Saref:Stet pup command TP/SAP/SAREF/BV/002_38 Saref:Stet pup command TP/SAP/SAREF/BV/002_38 Saref:Stet pup command TP/SAP/SAREF/BV/002_38 Saref:Stet pup command	TP/SAP/SAREF/BV/002_13	saref:Function
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TP/SAP/SAREF/BV/002_19	TP/SAP/SAREF/BV/002_16	saref:Open close function
TP/SAP/SAREF/BV/002_20	TP/SAP/SAREF/BV/002_17	saref:start stopfunction
TP/SAP/SAREF/BV/002_21 saref:Command TP/SAP/SAREF/BV/002_22 saref:Close command TP/SAP/SAREF/BV/002_23 saref:Get command TP/SAP/SAREF/BV/002_24 saref:Get current meter value command TP/SAP/SAREF/BV/002_25 saref:Get meter data command TP/SAP/SAREF/BV/002_26 saref:Get meter history command TP/SAP/SAREF/BV/002_27 saref:Get sensing data command TP/SAP/SAREF/BV/002_28 saref:Off command TP/SAP/SAREF/BV/002_29 saref:Off command TP/SAP/SAREF/BV/002_30 saref:On command TP/SAP/SAREF/BV/002_31 saref:Pause command TP/SAP/SAREF/BV/002_32 saref:Set level command TP/SAP/SAREF/BV/002_33 saref:Set level command TP/SAP/SAREF/BV/002_34 saref:Set absolute level command TP/SAP/SAREF/BV/002_35 saref:Set relative level command TP/SAP/SAREF/BV/002_36 saref:Set relative level command TP/SAP/SAREF/BV/002_37 saref:Step down command TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_39 saref:Step command	TP/SAP/SAREF/BV/002_18	saref:Event function
TP/SAP/SAREF/BV/002_22 saref:Close command TP/SAP/SAREF/BV/002_23 saref:Get command TP/SAP/SAREF/BV/002_24 saref:Get current meter value command TP/SAP/SAREF/BV/002_25 saref:Get meter data command TP/SAP/SAREF/BV/002_26 saref:Get meter history command TP/SAP/SAREF/BV/002_27 saref:Get sensing data command TP/SAP/SAREF/BV/002_28 saref:Notify command TP/SAP/SAREF/BV/002_29 saref:Off command TP/SAP/SAREF/BV/002_30 saref:On command TP/SAP/SAREF/BV/002_31 saref:Open command TP/SAP/SAREF/BV/002_32 saref:Pause command TP/SAP/SAREF/BV/002_33 saref:Set level command TP/SAP/SAREF/BV/002_34 saref:Set absolute level command TP/SAP/SAREF/BV/002_35 saref:Set relative level command TP/SAP/SAREF/BV/002_36 saref:Step down command TP/SAP/SAREF/BV/002_37 saref:Step up command TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_38 saref:Step up command	TP/SAP/SAREF/BV/002_19	
TP/SAP/SAREF/BV/002_23 saref:Close command TP/SAP/SAREF/BV/002_24 saref:Get current meter value command TP/SAP/SAREF/BV/002_25 saref:Get meter data command TP/SAP/SAREF/BV/002_26 saref:Get meter history command TP/SAP/SAREF/BV/002_27 saref:Get sensing data command TP/SAP/SAREF/BV/002_28 saref:Notify command TP/SAP/SAREF/BV/002_29 saref:Off command TP/SAP/SAREF/BV/002_30 saref:On command TP/SAP/SAREF/BV/002_31 saref:Open command TP/SAP/SAREF/BV/002_32 saref:Pause command TP/SAP/SAREF/BV/002_33 saref:Set level command TP/SAP/SAREF/BV/002_34 saref:Set absolute level command TP/SAP/SAREF/BV/002_35 saref:Set relative level command TP/SAP/SAREF/BV/002_36 saref:Start command TP/SAP/SAREF/BV/002_37 saref:Step down command TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_38 saref:Step up command	TP/SAP/SAREF/BV/002_20	saref:Sensing function
TP/SAP/SAREF/BV/002_24 TP/SAP/SAREF/BV/002_24 Saref:Get current meter value command TP/SAP/SAREF/BV/002_25 Saref:Get meter data command TP/SAP/SAREF/BV/002_26 Saref:Get meter history command TP/SAP/SAREF/BV/002_27 Saref:Get sensing data command TP/SAP/SAREF/BV/002_28 Saref:Notify command TP/SAP/SAREF/BV/002_29 Saref:Off command TP/SAP/SAREF/BV/002_30 TP/SAP/SAREF/BV/002_31 Saref:Open command TP/SAP/SAREF/BV/002_32 Saref:Pause command TP/SAP/SAREF/BV/002_33 TP/SAP/SAREF/BV/002_34 Saref:Set level command TP/SAP/SAREF/BV/002_35 Saref:Set absolute level command TP/SAP/SAREF/BV/002_36 Saref:Start command TP/SAP/SAREF/BV/002_37 Saref:Start command TP/SAP/SAREF/BV/002_38 TP/SAP/SAREF/BV/002_38 Saref:Step down command TP/SAP/SAREF/BV/002_38 TP/SAP/SAREF/BV/002_38 Saref:Step up command TP/SAP/SAREF/BV/002_39 Saref:Stop command	TP/SAP/SAREF/BV/002_21	saref:Command
TP/SAP/SAREF/BV/002_25 TP/SAP/SAREF/BV/002_25 Saref:Get meter data command TP/SAP/SAREF/BV/002_26 Saref:Get meter history command TP/SAP/SAREF/BV/002_27 Saref:Get sensing data command TP/SAP/SAREF/BV/002_28 Saref:Notify command TP/SAP/SAREF/BV/002_29 Saref:Off command TP/SAP/SAREF/BV/002_30 Saref:On command TP/SAP/SAREF/BV/002_31 Saref:Open command TP/SAP/SAREF/BV/002_32 Saref:Set level command TP/SAP/SAREF/BV/002_33 TP/SAP/SAREF/BV/002_34 Saref:Set absolute level command TP/SAP/SAREF/BV/002_35 Saref:Set relative level command TP/SAP/SAREF/BV/002_36 TP/SAP/SAREF/BV/002_37 Saref:Step down command TP/SAP/SAREF/BV/002_38 TP/SAP/SAREF/BV/002_38 Saref:Step up command TP/SAP/SAREF/BV/002_39 Saref:Stop command		
command TP/SAP/SAREF/BV/002_25 saref:Get meter data command TP/SAP/SAREF/BV/002_26 saref:Get meter history command TP/SAP/SAREF/BV/002_27 saref:Get sensing data command TP/SAP/SAREF/BV/002_28 saref:Notify command TP/SAP/SAREF/BV/002_29 saref:Off command TP/SAP/SAREF/BV/002_30 saref:On command TP/SAP/SAREF/BV/002_31 saref:Open command TP/SAP/SAREF/BV/002_32 saref:Pause command TP/SAP/SAREF/BV/002_33 saref:Set level command TP/SAP/SAREF/BV/002_34 saref:Set absolute level command TP/SAP/SAREF/BV/002_35 saref:Set relative level command TP/SAP/SAREF/BV/002_36 saref:Start command TP/SAP/SAREF/BV/002_37 saref:Step down command TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_39 saref:Stop command	TP/SAP/SAREF/BV/002_23	saref:Get command
TP/SAP/SAREF/BV/002_26 TP/SAP/SAREF/BV/002_26 TP/SAP/SAREF/BV/002_27 Saref:Get meter history command TP/SAP/SAREF/BV/002_27 Saref:Get sensing data command TP/SAP/SAREF/BV/002_28 Saref:Notify command TP/SAP/SAREF/BV/002_29 Saref:Off command TP/SAP/SAREF/BV/002_30 Saref:On command TP/SAP/SAREF/BV/002_31 Saref:Open command TP/SAP/SAREF/BV/002_32 Saref:Pause command TP/SAP/SAREF/BV/002_33 TP/SAP/SAREF/BV/002_34 Saref:Set level command TP/SAP/SAREF/BV/002_35 Saref:Set relative level command TP/SAP/SAREF/BV/002_36 TP/SAP/SAREF/BV/002_37 Saref:Step down command TP/SAP/SAREF/BV/002_38 Saref:Step up command TP/SAP/SAREF/BV/002_39 Saref:Stop command	TP/SAP/SAREF/BV/002_24	saref:Get current meter value
TP/SAP/SAREF/BV/002_26 saref:Get meter history command TP/SAP/SAREF/BV/002_27 saref:Get sensing data command TP/SAP/SAREF/BV/002_28 saref:Notify command TP/SAP/SAREF/BV/002_29 saref:Off command TP/SAP/SAREF/BV/002_30 saref:On command TP/SAP/SAREF/BV/002_31 saref:Open command TP/SAP/SAREF/BV/002_32 saref:Pause command TP/SAP/SAREF/BV/002_33 saref:Set level command TP/SAP/SAREF/BV/002_34 saref:Set absolute level command TP/SAP/SAREF/BV/002_35 saref:Set relative level command TP/SAP/SAREF/BV/002_36 saref:Start command TP/SAP/SAREF/BV/002_37 saref:Step down command TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_39 saref:Stop command		
TP/SAP/SAREF/BV/002_28 TP/SAP/SAREF/BV/002_28 TP/SAP/SAREF/BV/002_29 TP/SAP/SAREF/BV/002_30 TP/SAP/SAREF/BV/002_31 TP/SAP/SAREF/BV/002_31 TP/SAP/SAREF/BV/002_32 TP/SAP/SAREF/BV/002_33 TP/SAP/SAREF/BV/002_33 TP/SAP/SAREF/BV/002_34 TP/SAP/SAREF/BV/002_35 TP/SAP/SAREF/BV/002_35 TP/SAP/SAREF/BV/002_36 TP/SAP/SAREF/BV/002_37 TP/SAP/SAREF/BV/002_38 TP/SAP/SAREF/BV/002_38 TP/SAP/SAREF/BV/002_39 Saref:Step up command TP/SAP/SAREF/BV/002_38 TP/SAP/SAREF/BV/002_39 Saref:Stop command		
TP/SAP/SAREF/BV/002_28 saref:Notify command TP/SAP/SAREF/BV/002_29 saref:Off command TP/SAP/SAREF/BV/002_30 saref:On command TP/SAP/SAREF/BV/002_31 saref:Open command TP/SAP/SAREF/BV/002_32 saref:Pause command TP/SAP/SAREF/BV/002_33 saref:Set level command TP/SAP/SAREF/BV/002_34 saref:Set absolute level command TP/SAP/SAREF/BV/002_35 saref:Set relative level command TP/SAP/SAREF/BV/002_36 saref:Start command TP/SAP/SAREF/BV/002_37 saref:Step down command TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_39 saref:Stop command	_	
TP/SAP/SAREF/BV/002_29 saref:Off command TP/SAP/SAREF/BV/002_30 saref:On command TP/SAP/SAREF/BV/002_31 saref:Open command TP/SAP/SAREF/BV/002_32 saref:Pause command TP/SAP/SAREF/BV/002_33 saref:Set level command TP/SAP/SAREF/BV/002_34 saref:Set absolute level command TP/SAP/SAREF/BV/002_35 saref:Set relative level command TP/SAP/SAREF/BV/002_36 saref:Start command TP/SAP/SAREF/BV/002_37 saref:Step down command TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_39 saref:Stop command		
TP/SAP/SAREF/BV/002_30 saref:On command TP/SAP/SAREF/BV/002_31 saref:Open command TP/SAP/SAREF/BV/002_32 saref:Pause command TP/SAP/SAREF/BV/002_33 saref:Set level command TP/SAP/SAREF/BV/002_34 saref:Set absolute level command TP/SAP/SAREF/BV/002_35 saref:Set relative level command TP/SAP/SAREF/BV/002_36 saref:Start command TP/SAP/SAREF/BV/002_37 saref:Step down command TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_39 saref:Stop command		
TP/SAP/SAREF/BV/002_31 saref:Open command TP/SAP/SAREF/BV/002_32 saref:Pause command TP/SAP/SAREF/BV/002_33 saref:Set level command TP/SAP/SAREF/BV/002_34 saref:Set absolute level command TP/SAP/SAREF/BV/002_35 saref:Set relative level command TP/SAP/SAREF/BV/002_36 saref:Start command TP/SAP/SAREF/BV/002_37 saref:Step down command TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_39 saref:Stop command	_	
TP/SAP/SAREF/BV/002_32 saref:Pause command TP/SAP/SAREF/BV/002_33 saref:Set level command TP/SAP/SAREF/BV/002_34 saref:Set absolute level command TP/SAP/SAREF/BV/002_35 saref:Set relative level command TP/SAP/SAREF/BV/002_36 saref:Start command TP/SAP/SAREF/BV/002_37 saref:Step down command TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_39 saref:Stop command		
TP/SAP/SAREF/BV/002_33 saref:Set level command TP/SAP/SAREF/BV/002_34 saref:Set absolute level command TP/SAP/SAREF/BV/002_35 saref:Set relative level command TP/SAP/SAREF/BV/002_36 saref:Start command TP/SAP/SAREF/BV/002_37 saref:Step down command TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_39 saref:Stop command		
TP/SAP/SAREF/BV/002_34 saref:Set absolute level command TP/SAP/SAREF/BV/002_35 saref:Set relative level command TP/SAP/SAREF/BV/002_36 saref:Start command TP/SAP/SAREF/BV/002_37 saref:Step down command TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_39 saref:Stop command		
TP/SAP/SAREF/BV/002_35 saref:Set relative level command TP/SAP/SAREF/BV/002_36 saref:Start command TP/SAP/SAREF/BV/002_37 saref:Step down command TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_39 saref:Stop command		
TP/SAP/SAREF/BV/002_36 saref:Start command TP/SAP/SAREF/BV/002_37 saref:Step down command TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_39 saref:Stop command		
TP/SAP/SAREF/BV/002_37 saref:Step down command TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_39 saref:Stop command		
TP/SAP/SAREF/BV/002_38 saref:Step up command TP/SAP/SAREF/BV/002_39 saref:Stop command	_	
TP/SAP/SAREF/BV/002_39 saref:Stop command		
TP/SAP/SAREF/BV/002_39 saref:Stop command TP/SAP/SAREF/BV/002_40 saref:Toggle command		
TP/SAP/SAREF/BV/002_40 saref:Toggle command	_	saref:Stop command
	TP/SAP/SAREF/BV/002_40	saref:Toggle command

TP Id	TP/SAP/SAREF/BV/003		
Test objective	Check that the IUT creates for an instantiation of a class of the Base Ontology a oneM2M		
	resource of type <semanticdescriptor> containing the instantiated Object Propertiy for which the</semanticdescriptor>		
	instantiated class is the domain class.		
Reference	ETSI TS 118 112 [2], clause 7.1.1.1		
Config Id	CF03		
PICS Selection	PICS_AE, PICS_OBJECTPROPERTY		
Initial conditions	with {		
	the CSE being in the "initial state" and		
	the IUT having an ontology instance containing		
	an instantiation of a class of the Base Ontology and		
	the IUT having privileges to perform CREATE operation		
	}		
Expected behaviour	Test events		
	when {		
	the IUT starts and registers		
	}		
	then {		
	the IUT sends a valid CREATE request containing		
	To set to address of <ae> resource and</ae>		
	Resource-Type set to < semanticDescriptor> and		
	From set to AE-ID and		
	Content containing		
	<semanticdescriptor> resource containing</semanticdescriptor>		
	the instantiated Object Property for which the instantiated class is the domain class.		

TP Id	Object Property
TP/SAP/SAREF/BV/003_01	saref:accomplishes
TP/SAP/SAREF/BV/003_02	saref:acts upon
TP/SAP/SAREF/BV/003_03	saref:consists of
TP/SAP/SAREF/BV/003_04	saref:contains
TP/SAP/SAREF/BV/003_05	saref:has category
TP/SAP/SAREF/BV/003_06	saref:has command
TP/SAP/SAREF/BV/003_07	saref:has consumption
TP/SAP/SAREF/BV/003_08	saref:has function
TP/SAP/SAREF/BV/003_09	saref:has input parameter
TP/SAP/SAREF/BV/003_10	saref:has meter reading
TP/SAP/SAREF/BV/003_11	saref:has meter reading time
TP/SAP/SAREF/BV/003_12	saref:has output parameter
TP/SAP/SAREF/BV/003_13	saref:has price
TP/SAP/SAREF/BV/003_14	saref:has production
TP/SAP/SAREF/BV/003_15	saref:has profile
TP/SAP/SAREF/BV/003_16	saref:has sensing range
TP/SAP/SAREF/BV/003_17	saref:has sensing time
TP/SAP/SAREF/BV/003_18	saref:has singular unit
TP/SAP/SAREF/BV/003_19	saref:has state
TP/SAP/SAREF/BV/003_20	saref:has threshold
TP/SAP/SAREF/BV/003_21	saref:has time
TP/SAP/SAREF/BV/003_22	saref:has typical consumption
TP/SAP/SAREF/BV/003_23	saref:is accomplished by
TP/SAP/SAREF/BV/003_24	saref:is category of
TP/SAP/SAREF/BV/003_25	saref:is command of
TP/SAP/SAREF/BV/003_26	saref:is located in
TP/SAP/SAREF/BV/003_27	saref:is measured in
TP/SAP/SAREF/BV/003_28	saref:is offered by
TP/SAP/SAREF/BV/003_29	saref:ls used for
TP/SAP/SAREF/BV/003_30	saref:offers
TP/SAP/SAREF/BV/003_31	saref:represents

TP ld	TP/SAP/SAREF/BV/004
Test objective	Check that the IUT creates for an instantiation of a class of the Base Ontology a oneM2M
	resource of type <semanticdescriptor> containing the instantiated Data Property for which the</semanticdescriptor>
	instantiated class is the domain class.
Reference	ETSI TS 118 112 [2], clause 7.1.1.1
Config Id	CF03
PICS Selection	PICS_AE, PICS_OBJECTPROPERTY
Initial conditions	with {
	the CSE being in the "initial state" and
	the IUT having an ontology instance containing
	an instantiation of a class of the Base Ontology and
	the IUT having privileges to perform CREATE operation
)
Expected behaviour	Test events
Expected behaviour	Test events when {
Expected behaviour	
Expected behaviour	when {
Expected behaviour	when {
Expected behaviour	when { the IUT starts and registers } then { the IUT sends a valid CREATE request containing
Expected behaviour	when { the IUT starts and registers } then {
Expected behaviour	when { the IUT starts and registers } then { the IUT sends a valid CREATE request containing To set to address of <ae> resource and Resource-Type set to semanticDescriptor and</ae>
Expected behaviour	when { the IUT starts and registers } then { the IUT sends a valid CREATE request containing
Expected behaviour	when { the IUT starts and registers } then { the IUT sends a valid CREATE request containing To set to address of <ae> resource and Resource-Type set to semanticDescriptor and</ae>
Expected behaviour	when { the IUT starts and registers } then { the IUT sends a valid CREATE request containing To set to address of <ae> resource and Resource-Type set to semanticDescriptor and From set to AE-ID and no Name attribute and Content containing</ae>
Expected behaviour	when { the IUT starts and registers } then { the IUT sends a valid CREATE request containing To set to address of <ae> resource and Resource-Type set to semanticDescriptor and From set to AE-ID and no Name attribute and Content containing semanticDescriptor resource containing</ae>
Expected behaviour	when { the IUT starts and registers } then { the IUT sends a valid CREATE request containing To set to address of <ae> resource and Resource-Type set to semanticDescriptor and From set to AE-ID and no Name attribute and Content containing</ae>

TP ld	Data Property
TP/SAP/SAREF/BV/004_01	saref:has description
TP/SAP/SAREF/BV/004_02	saref:has manufacturer
TP/SAP/SAREF/BV/004_03	saref:has meter reading type
TP/SAP/SAREF/BV/004_04	saref:has model
TP/SAP/SAREF/BV/004_05	saref:has name
TP/SAP/SAREF/BV/004_06	saref:has sensor type
TP/SAP/SAREF/BV/004_07	saref:has space type
TP/SAP/SAREF/BV/004_08	saref:has task
TP/SAP/SAREF/BV/004_09	saref:has value
TP/SAP/SAREF/BV/004_10	saref:is flexible
TP/SAP/SAREF/BV/004_11	saref:is interruption possible

TP Id	TP/SAP/SAREF/BV/005	
Test objective	Check that the IUT creates for an instantiation of a class of the Base Ontology a oneM2M	
	resource of type <semanticdescriptor> containing an instance of the resourceDescriptorLink</semanticdescriptor>	
	annotation property that contains the URI of the semanticDescriptor of the instance of the range	
	class.	
Reference	ETSI TS 118 112 [2], clause 7.1.1.1	
Config Id	CF03	
PICS Selection	PICS_AE, PICS_OBJECTPROPERTY	
Initial conditions	with { the CSE being in the "initial state" and	
	the IUT having an ontology instance containing	
	an instantiation of a class of the Base Ontology and	
	a range class of an object property instantiated in a different <semanticdescriptor></semanticdescriptor>	
	resource that is different to the <semanticdescriptor> resource in which the domain class</semanticdescriptor>	
	is instantiated and	
	the IUT having privileges to perform CREATE operation	
Expected behaviour	Test events	
Expected benavious	when {	
	the IUT starts and registers	
	}	
	then {	
	the IUT sends a valid CREATE request containing	
	To set to address of <ae> resource and</ae>	
	Resource-Type set to semanticDescriptor and	
	From set to AE-ID and	
	Content containing	
	semanticDescriptor resource containing	
	an instance of the resourceDescriptorLink annotation	
	property that contains the URI of the semanticDescriptor of the instance of the range class.	

TP Id	Class
TP/SAP/SAREF/BV/005_01	saref:Device
TP/SAP/SAREF/BV/005_02	saref:Door switch
TP/SAP/SAREF/BV/005_03	saref:Energy meter
TP/SAP/SAREF/BV/005_04	saref:Light switch
TP/SAP/SAREF/BV/005 05	saref:Meter
TP/SAP/SAREF/BV/005_06	saref:Sensor
TP/SAP/SAREF/BV/005_07	saref:Smoke sensor
TP/SAP/SAREF/BV/005_08	saref:Switch
TP/SAP/SAREF/BV/005_09	saref:Temperature sensor
TP/SAP/SAREF/BV/005_10	saref:Washing machine
TP/SAP/SAREF/BV/005_11	saref:Service
TP/SAP/SAREF/BV/005_12	saref:Switch on service
TP/SAP/SAREF/BV/005_13	saref:Function
TP/SAP/SAREF/BV/005_14	saref:Actuating function
TP/SAP/SAREF/BV/005_15	saref:On off function
TP/SAP/SAREF/BV/005_16	saref:Open close function
TP/SAP/SAREF/BV/005_17	saref:start stopfunction
TP/SAP/SAREF/BV/005_18	saref:Event function
TP/SAP/SAREF/BV/005_19	saref:Metering function
TP/SAP/SAREF/BV/005_20	saref:Sensing function
TP/SAP/SAREF/BV/005_21	saref:Command
TP/SAP/SAREF/BV/005_22	saref:Close command
TP/SAP/SAREF/BV/005_23	saref:Get command
TP/SAP/SAREF/BV/005_24	saref:Get current meter value command
TP/SAP/SAREF/BV/005_25	saref:Get meter data command
TP/SAP/SAREF/BV/005_26	saref:Get meter history command
TP/SAP/SAREF/BV/005_27	saref:Get sensing data command
TP/SAP/SAREF/BV/005_28	saref:Notify command
TP/SAP/SAREF/BV/005_29	saref:Off command
TP/SAP/SAREF/BV/005_30	saref:On command
TP/SAP/SAREF/BV/005_31	saref:Open command
TP/SAP/SAREF/BV/005_32	saref:Pause command
TP/SAP/SAREF/BV/005_33	saref:Set level command
TP/SAP/SAREF/BV/005_34	saref:Set absolute level command
TP/SAP/SAREF/BV/005_35	saref:Set relative level command
TP/SAP/SAREF/BV/005_36	saref:Start command
TP/SAP/SAREF/BV/005_37	saref:Step down command
TP/SAP/SAREF/BV/005_38	saref:Step up command
TP/SAP/SAREF/BV/005_39	saref:Stop command
TP/SAP/SAREF/BV/005_40	saref:Toggle command

TP Id	TP/SAP/SAREF/BV/006		
Test objective	Check that the IUT creates for an instantiation of a Device class or subclass a		
100t objective	-content that the roll of cates for all installidation of a Bevice class of subclass a semantic Descriptor > resource under <ae>.</ae>		
Reference	ETSI TS 118 112 [2], clause 7.1.1.2		
Config Id	CF03		
PICS Selection	PICS_AE, PICS_DEVICE		
Initial conditions			
initial conditions	with { the CSE being in the "initial state" and		
	the GOL being in the initial state and		
	the IUT having a Device class or subclass instance and		
	the IUT having privileges to perform CREATE operation on the resource <ae></ae>		
	}		
Expected behaviour	Test events		
	when {		
	the IUT starts and registers		
	}		
	then {		
	the IUT sends a valid CREATE request containing		
	To set to address of <ae> resource and</ae>		
	Resource-Type set to semanticDescriptor resource and From set to AE-ID and Content containing		
	<pre><semanticdescriptor> resource containing</semanticdescriptor></pre>		
	descriptor attribute containing instance of the Device class or subclass containing		
	rdf:about attribute containing		
	URI of the device		

TP ld	Device class/subclass
TP/SAP/SAREF/BV/006_01	saref:Device
TP/SAP/SAREF/BV/006_02	saref:Door switch
TP/SAP/SAREF/BV/006_03	saref:Energy meter
TP/SAP/SAREF/BV/006_04	saref:Light switch
TP/SAP/SAREF/BV/006_05	saref:Meter
TP/SAP/SAREF/BV/006_06	saref:Sensor
TP/SAP/SAREF/BV/006_07	saref:Smoke sensor
TP/SAP/SAREF/BV/006_08	saref:Switch
TP/SAP/SAREF/BV/006_09	saref:Temperature sensor
TP/SAP/SAREF/BV/006 10	saref:Washing machine

TP Id	TD/CAD/CADEE/DV/007	
	TP/SAP/SAREF/BV/007	
Test objective	Check that the IUT creates for an instantiation of a Service class or subclass a	
	<semanticdescriptor> resource under < genericInterworkingService> resource.</semanticdescriptor>	
Reference	ETSI TS 118 112 [2], clause 7.1.1.2	
Config Id	CF03	
PICS Selection	PICS_GENERIC IWK_SERVICE, PICS_SERVICE	
Initial conditions	with {	
	the CSE being in the "initial state" and	
	-	
	the IUT having a Service class or subclass instance and	
	the IUT having created <genericinterworkingservice> resource and</genericinterworkingservice>	
	the IUT having privileges to perform CREATE operation	
	}	
Expected behaviour	Test events	
	when {	
	the IUT starts and registers	
	}	
	then {	
	the IUT sends a valid CREATE request containing	
	To set to address of <i><genericinterworkingservice></genericinterworkingservice></i> resource and	
	Resource-Type set to < semanticDescriptor> type and	
	From set to AE-ID and	
	Content containing	
	<pre><semanticdescriptor> resource containing</semanticdescriptor></pre>	
	instance of the Service class or subclass	
	containing	
	rdf:about attribute containing	
	the URI of the Device	
	concatenated with the letter "*"	
	and the class name of the Service	
	}	

TP ld	Service class/subclass
TP/SAP/SAREF/BV/007_01	saref:Service
TP/SAP/SAREF/BV/007_02	saref:Switch on service

TP Id	TP/SAP/SAREF/BV/008	
Test objective	Check that the IUT creates for an instantiation of a Functionality class or subclass a	
,	<semanticdescriptor> resource under <ae> resource.</ae></semanticdescriptor>	
Reference	ETSI TS 118 112 [2], clause 7.1.1.2	
Config Id	CF03	
PICS Selection	PICS_AE, PICS_FUNCTION	
Initial conditions	with {	
	the CSE being in the "initial state" and	
	the IUT having a Functionality class or subclass instance and	
	the IUT having privileges to perform CREATE operation	
	}	
Expected behaviour	Test events	
	when {	
	the IUT starts and registers	
	[}	
	then {	
	the IUT sends a valid CREATE request containing	
	To set to address of < <i>AE</i> > and	
	Resource-Type set to < semanticDescriptor> type and	
	From set to AE-ID and	
	Content containing	
	<pre><semanticdescriptor> resource containing descriptor attribute containing</semanticdescriptor></pre>	
	descriptor attribute containing	
	rdf:about attribute containing the URI of the Device	
	concatenated with the letter "*"	
	and the class name of the	
	Functionality.	
	}	
1	U	

TP ld	Functionality class/subclass
TP/SAP/SAREF/BV/008_01	saref:Function
TP/SAP/SAREF/BV/008_02	saref:Actuating function
TP/SAP/SAREF/BV/008_03	saref:On off function
TP/SAP/SAREF/BV/008_04	saref:Open close function
TP/SAP/SAREF/BV/008_05	saref:start stopfunction
TP/SAP/SAREF/BV/008_06	saref:Event function
TP/SAP/SAREF/BV/008_07	saref:Metering function
TP/SAP/SAREF/BV/008_08	saref:Sensing function

TP Id	TP/SAP/SAREF/BV/009	
Test objective	Check that the IUT creates for an instantiation of a Functionality class or subclass a	
	<semanticdescriptor> resource under < Container> resource.</semanticdescriptor>	
Reference	ETSI TS 118 112 [2], clause 7.1.1.2	
Config Id	CF03	
PICS Selection	PICS_CONTAINER, PICS_FUNCTION	
Initial conditions	with {	
	the CSE being in the "initial state" and	
	the IUT having a Functionality class or subclass instance and	
	the IUT having created Container < Container > and	
	the IUT having privileges to perform CREATE operation	
	}	
Expected behaviour	Test events	
	when {	
	the IUT starts and registers	
	}	
	than f	
	then { the ILIT sends a valid CREATE request containing	
	the IUT sends a valid CREATE request containing To set to address of < Container> and	
	Resource-Type set to <semanticdescriptor> type and</semanticdescriptor>	
	From set to AE-ID and	
	Content containing	
	<pre><semanticdescriptor> resource containing</semanticdescriptor></pre>	
	descriptor attribute containing	
	rdf:about attribute containing	
	the URI of the Device	
	concatenated with the letter "*"	
	and the class name of the	
	Functionality.	
	D .	

TP Id	Functionality class/subclass
TP/SAP/SAREF/BV/009_01	saref:Function
TP/SAP/SAREF/BV/009_02	saref:Actuating function
TP/SAP/SAREF/BV/009_03	saref:On off function
TP/SAP/SAREF/BV/009_04	saref:Open close function
TP/SAP/SAREF/BV/009_05	saref:start stopfunction
TP/SAP/SAREF/BV/009_06	saref:Event function
TP/SAP/SAREF/BV/009_07	saref:Metering function
TP/SAP/SAREF/BV/009_08	saref:Sensing function

TP ld	TP/SAP/SAREF/BV/010	
Test objective	Check that the IUT creates for an instantiation of a Functionality class or subclass a	
	<semanticdescriptor> resource under < FlexContainer> resource.</semanticdescriptor>	
Reference	ETSI TS 118 112 [2], clause 7.1.1.2	
Config Id	CF03	
PICS Selection	PICS_FLEXCONTAINER, PICS_FUNCTION	
Initial conditions	with {	
	the CSE being in the "initial state" and	
	the IUT having a Functionality class or subclass instance and	
	the IUT having created Container <flexcontainer> and</flexcontainer>	
	the IUT having privileges to perform CREATE operation	
	}	
Expected behaviour	Test events	
	when {	
	the IUT starts and registers	
	 }	
	then {	
	the IUT sends a valid CREATE request containing	
	To set to address of <i><flexcontainer></flexcontainer></i> and	
	Resource-Type set to < semanticDescriptor> type and	
	From set to AE-ID and	
	Content containing	
	<semanticdescriptor> resource containing</semanticdescriptor>	
	descriptor attribute containing	
	rdf:about attribute containing	
	the URI of the Device	
	concatenated with the letter "*"	
	and the class name of the	
	Functionality.	
	D .	

TP Id	Functionality class/subclass
TP/SAP/SAREF/BV/010_01	saref:Function
TP/SAP/SAREF/BV/010_02	saref:Actuating function
TP/SAP/SAREF/BV/010_03	saref:On off function
TP/SAP/SAREF/BV/010_04	saref:Open close function
TP/SAP/SAREF/BV/010_05	saref:start stopfunction
TP/SAP/SAREF/BV/010_06	saref:Event function
TP/SAP/SAREF/BV/010_07	saref:Metering function
TP/SAP/SAREF/BV/010_08	saref:Sensing function

TP Id	TP/SAP/SAREF/BV/011
Test objective	Check that the IUT creates for an instantiation of a Command class or subclass a
_	<semanticdescriptor> resource under <ae> resource.</ae></semanticdescriptor>
Reference	ETSI TS 118 112 [2], clause 7.1.1.2
Config Id	CF03
PICS Selection	PICS_AE, PICS_COMMAND
Initial conditions	with {
	the CSE being in the "initial state" and
	the IUT having a Command class or subclass instance
	the IUT having privileges to perform CREATE operation
Everante di babaysia ve	} Test events
Expected behaviour	100000000000000000000000000000000000000
	when { the IUT starts and registers
	tile 101 starts and registers
	'
	then {
	the IUT sends a valid CREATE request containing
	To set to address of < <i>AE</i> > and
	Resource-Type set to < semanticDescriptor> type and
	From set to AE-ID and
	Content containing
	<pre><semanticdescriptor> resource containing</semanticdescriptor></pre>
	descriptor attribute containing
	instance of the Command class or subclass
	containing
	rdf:about attribute containing URI of the Device concatenated
	with the letter "*" and the class
	name of the Command.
	Traine of the Communic.
	U

TP ld	Command class/subclass
TP/SAP/SAREF/BV/011_01	saref:Command
TP/SAP/SAREF/BV/011_02	saref:Close command
TP/SAP/SAREF/BV/011_03	saref:Get command
TP/SAP/SAREF/BV/011_04	saref:Get current meter value command
TP/SAP/SAREF/BV/011_05	saref:Get meter data command
TP/SAP/SAREF/BV/011_06	saref:Get meter history command
TP/SAP/SAREF/BV/011_07	saref:Get sensing data command
TP/SAP/SAREF/BV/011_08	saref:Notify command
TP/SAP/SAREF/BV/011_09	saref:Off command
TP/SAP/SAREF/BV/011_10	saref:On command
TP/SAP/SAREF/BV/011_11	saref:Open command
TP/SAP/SAREF/BV/011_12	saref:Pause command
TP/SAP/SAREF/BV/011_13	saref:Set level command
TP/SAP/SAREF/BV/011_14	saref:Set absolute level command
TP/SAP/SAREF/BV/011_15	saref:Set relative level command
TP/SAP/SAREF/BV/011_16	saref:Start command
TP/SAP/SAREF/BV/011_17	saref:Step down command
TP/SAP/SAREF/BV/011_18	saref:Step up command
TP/SAP/SAREF/BV/011_19	saref:Stop command
TP/SAP/SAREF/BV/011_20	saref:Toggle command

TP Id	TP/SAP/SAREF/BV/012	
Test objective	Check that the IUT creates for an instantiation of a Command class or subclass a	
	<semanticdescriptor> resource under < Container> resource</semanticdescriptor>	
Reference	ETSI TS 118 112 [2], clause 7.1.1.2	
Config Id	CF03	
PICS Selection	PICS_CONTAINER, PICS_COMMAND	
Initial conditions	with {	
	the CSE being in the "initial state" and	
	the IUT having a Command class or subclass instance	
	the IUT having created Container <container> and</container>	
	the IUT having privileges to perform CREATE operation	
)	
Expected behaviour	Test events	
	when {	
	the IUT starts and registers	
]}	
	then {	
	the IUT sends a valid CREATE request containing	
	To set to address of <i><container></container></i> and	
	Resource-Type set to <semanticdescriptor> type and From set to AE-ID and</semanticdescriptor>	
	Content containing <semanticdescriptor> resource containing</semanticdescriptor>	
	descriptor attribute containing	
	instance of the Command class or subclass	
	containing	
	rdf:about attribute containing	
	URI of the Device concatenated	
	with the letter "*" and the class	
	name of the Command.	
	}	
	}	

TP ld	Command class/subclass
TP/SAP/SAREF/BV/012_01	saref:Command
TP/SAP/SAREF/BV/012_02	saref:Close command
TP/SAP/SAREF/BV/012_03	saref:Get command
TP/SAP/SAREF/BV/012_04	saref:Get current meter value command
TP/SAP/SAREF/BV/012_05	saref:Get meter data command
TP/SAP/SAREF/BV/012_06	saref:Get meter history command
TP/SAP/SAREF/BV/012_07	saref:Get sensing data command
TP/SAP/SAREF/BV/012_08	saref:Notify command
TP/SAP/SAREF/BV/012_09	saref:Off command
TP/SAP/SAREF/BV/012_10	saref:On command
TP/SAP/SAREF/BV/012_11	saref:Open command
TP/SAP/SAREF/BV/012_12	saref:Pause command
TP/SAP/SAREF/BV/012_13	saref:Set level command
TP/SAP/SAREF/BV/012_14	saref:Set absolute level command
TP/SAP/SAREF/BV/012_15	saref:Set relative level command
TP/SAP/SAREF/BV/012_16	saref:Start command
TP/SAP/SAREF/BV/012_17	saref:Step down command
TP/SAP/SAREF/BV/012_18	saref:Step up command
TP/SAP/SAREF/BV/012_19	saref:Stop command
TP/SAP/SAREF/BV/012_20	saref:Toggle command

TP ld	TP/SAP/SAREF/BV/013
Test objective	Check that the IUT creates for an instantiation of a Command class or subclass a
	<semanticdescriptor> resource under <flexcontainer> resource.</flexcontainer></semanticdescriptor>
Reference	ETSI TS 118 112 [2], clause 7.1.1.2
Config Id	CF03
PICS Selection	PICS_FLEXCONTAINER, PICS_COMMAND
Initial conditions	with {
	the CSE being in the "initial state" and
	_
	the IUT having a Command class or subclass instance
	the IUT having created Container <flexcontainer> and</flexcontainer>
	the IUT having privileges to perform CREATE operation
). · · · · · · · · · · · · · · · · · · ·
Expected behaviour	Test events
	when {
	the IUT starts and registers
	3
	i l
	then {
	the IUT sends a valid CREATE request containing
	To set to address of <flexcontainer> and</flexcontainer>
	Resource-Type set to < <i>semanticDescriptor> type</i> and
	From set to AE-ID and
	Content containing
	<pre><semanticdescriptor> resource containing</semanticdescriptor></pre>
	descriptor attribute containing
	instance of the Command class or subclass
	containing
	rdf:about attribute containing
	URI of the Device concatenated
	with the letter "*" and the class
	name of the Command.
	name of the Command.
1	

TP Id	Command class/subclass
TP/SAP/SAREF/BV/013_01	saref:Command
TP/SAP/SAREF/BV/013_02	saref:Close command
TP/SAP/SAREF/BV/013_03	saref:Get command
TP/SAP/SAREF/BV/013_04	saref:Get current meter value command
TP/SAP/SAREF/BV/013_05	saref:Get meter data command
TP/SAP/SAREF/BV/013_06	saref:Get meter history command
TP/SAP/SAREF/BV/013_07	saref:Get sensing data command
TP/SAP/SAREF/BV/013_08	saref:Notify command
TP/SAP/SAREF/BV/013_09	saref:Off command
TP/SAP/SAREF/BV/013_10	saref:On command
TP/SAP/SAREF/BV/013_11	saref:Open command
TP/SAP/SAREF/BV/013_12	saref:Pause command
TP/SAP/SAREF/BV/013_13	saref:Set level command
TP/SAP/SAREF/BV/013_14	saref:Set absolute level command
TP/SAP/SAREF/BV/013_15	saref:Set relative level command
TP/SAP/SAREF/BV/013_16	saref:Start command
TP/SAP/SAREF/BV/013_17	saref:Step down command
TP/SAP/SAREF/BV/013_18	saref:Step up command
TP/SAP/SAREF/BV/013_19	saref:Stop command
TP/SAP/SAREF/BV/013_20	saref:Toggle command

TP Id	TD/CAD/CADEF/DV/044	
	TP/SAP/SAREF/BV/014	
Test objective	Check that the IUT creates for an instantiation of a Operation class a <semanticdescriptor></semanticdescriptor>	
	resource under < genericInterworkingOperationInstance> resource.	
Reference	ETSI TS 118 112 [2], clause 7.1.1.2	
Config Id	CF03	
PICS Selection	PICS_GENERIC_IWK_OP_INSTANCE, PICS_Operation	
Initial conditions	with {	
	the CSE being in the "initial state" and	
	the IUT having an Operation class instance and	
	the IUT having created <i><genericinterworkingoperationinstance></genericinterworkingoperationinstance></i> resource and	
	the IUT having privileges to perform CREATE operation	
	}	
Expected behaviour	Test events	
	when {	
	the IUT starts and registers	
	then {	
	the IUT sends a valid CREATE request containing	
	To set to address of <i><genericinterworkingoperationinstance> resource</genericinterworkingoperationinstance></i> and	
	Resource-Type set to < semanticDescriptor> type and	
	From set to AE-ID and	
	Content containing	
	<pre><semanticdescriptor> resource containing</semanticdescriptor></pre>	
	descriptor attribute containing	
	instance of the Operation class containing	
	rdf:about attribute containing	
	the URI of the Device	
	concatenated with the letter "*"	
	and the class name of the	
	Service, concatenated with the	
	letter "*" and a combination of the	
	class name of the Operation with	
	a number that makes the instance	
	unique within its Service instance	
	during the operation's lifetime.	
	}	
<u> </u>	12	

TP Id	TP/SAP/SAREF/BV/015	
Test objective	Check that the IUT creates for an instantiation of a OperationInput and OperationOutput classes	
-	a <semanticdescriptor> resource under <container> resource.</container></semanticdescriptor>	
Reference	ETSI TS 118 112 [2], clause 7.1.1.2	
Config Id	CF03	
PICS Selection	PICS_CONTAINER, PICS_Operation	
Initial conditions	with {	
	the CSE being in the "initial state" and	
	4 117 1 2 2 3 1 2 3 3 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	the IUT having an OperationInput and OperationOutput classes instances and	
	the IUT having created < Container> and	
Expected behaviour	the IUT having privileges to perform CREATE operation } Test events	
Expected behaviour	when {	
	the IUT starts and registers	
	the for starts and registers	
	then {	
	the IUT sends a valid CREATE request containing	
	To set to address of <container> and</container>	
	Resource-Type set to < semanticDescriptor> type and	
	From set to AE-ID and	
	Content containing	
	<pre><semanticdescriptor> resource containing</semanticdescriptor></pre>	
	descriptor attribute containing	
	instance of the OperationInput and	
	OperationOutput classes containing	
	rdf:about attribute containing	
	the URI of the Operation Instance concatenated with the letter "*"	
	and the class name of the	
	OperationInput and	
	OperationOutput.	
	}	
<u> </u>	12	

TP Id	TP/SAP/SAREF/BV/016	
Test objective	Check that the IUT creates for an instantiation of a OperationInput and OperationOutput classes	
rest objective	a <semanticdescriptor> resource under <flexcontainer> resource.</flexcontainer></semanticdescriptor>	
Reference	ETSI TS 118 112 [2], clause 7.1.1.2	
	CF03	
Config Id PICS Selection		
	PICS_FLEXCONTAINER, PICS_Operation	
Initial conditions	with {	
	the CSE being in the "initial state" and	
	the UIT having an Operation land on easting Output along instance, and	
	the IUT having an OperationInput and OperationOutput class instances and	
	the IUT having created <flexcontainer> and</flexcontainer>	
Expected behaviour	the IUT having privileges to perform CREATE operation }	
Expected behaviour	Test events	
	when {	
	the IUT starts and registers	
	 	
	then {	
	the IUT sends a valid CREATE request containing	
	To set to address of <flexcontainer> and</flexcontainer>	
	Resource-Type set to < semanticDescriptor> type and	
	From set to AE-ID and	
	Content containing	
	<pre><semanticdescriptor> resource containing</semanticdescriptor></pre>	
	descriptor attribute containing	
	instance of the OperationInput and	
	OperationOutput classes containing	
	rdf:about attribute containing	
	the URI of the Operation Instance	
	concatenated with the letter "*"	
	and the class name of the	
	OperationInput and	
	OperationOutput.	
	[}	

TP ld	TP/SAP/SAREF/BV/017	
Test objective	Check that the IUT creates for an instantiation of a InputDataPoint and OutputDataPoint classes	
	a <semanticdescriptor> resource under <container> resource.</container></semanticdescriptor>	
Reference	ETSI TS 118 112 [2], clause 7.1.1.2	
Config Id	CF03	
PICS Selection	PICS_CONTAINER, PICS_Operation	
Initial conditions	with {	
	the CSE being in the "initial state" and	
	the IUT having an InputDataPoint and OutputDataPoint classes instances and	
	the IUT having created < Container > and	
	the IUT having privileges to perform CREATEoperation	
	s and let maxing privileges to perform except table	
Expected behaviour	Test events	
=xpootou ponaviou.	when {	
	the IUT starts and registers	
	tile 101 starts and registers	
	l [*]	
	then f	
	then {	
	the IUT sends a valid CREATE request containing	
	To set to address of <container> and</container>	
	Resource-Type set to < semanticDescriptor> resource and	
	From set to AE-ID and	
	Content containing	
	<pre><semanticdescriptor> resource containing</semanticdescriptor></pre>	
	descriptor attribute containing	
	instance of the OperationInput and	
	OperationOutput classes	
	containing	
	rdf:about attribute containing	
	the URI of the Device	
	concatenated with the letter "*"	
	and the class name of the	
	InputDataPoint or	
	OutputDataPoint	
	3	
	J.	

TP ld	TD/CAD/CADEF/DV/040
	TP/SAP/SAREF/BV/018
Test objective	Check that the IUT creates for an instantiation of a InputDataPoint and OutputDataPoint classes
	a <semanticdescriptor> resource under <flexcontainer> resource.</flexcontainer></semanticdescriptor>
Reference	ETSI TS 118 112 [2], clause 7.1.1.2
Config Id	CF03
PICS Selection	PICS_FLEXCONTAINER, PICS_Operation
Initial conditions	with {
	the CSE being in the "initial state" and
	_
	the IUT having an InputDataPoint and OutputDataPoint classes instances and
	the IUT having created <flexcontainer> and</flexcontainer>
	the IUT having privileges to perform CREATEoperation
	}
Expected behaviour	Test events
	when {
	the IUT starts and registers
)
	[
	then {
	the IUT sends a valid CREATE request containing
	To set to address of <flexcontainer> and</flexcontainer>
	Resource-Type set to <semanticdescriptor> resource and</semanticdescriptor>
	From set to AE-ID and
	Content containing
	<pre><semanticdescriptor> resource containing</semanticdescriptor></pre>
	descriptor attribute containing
	instance of the InputDataPoint and
	OutputDataPoint classes
	containing
	rdf:about attribute containing
	the URI of the Device
	concatenated with the letter "*"
	and the class name of the
	InputDataPoint or
	· ·
	OutputDataPoint
	<i>I</i>

TP Id	TP/SAP/SAREF/BV/019
Test objective	Check that the IUT sets the "rdf:about" attribute in the <semanticdescriptor> for an</semanticdescriptor>
	OperationState class.
Reference	ETSI TS 118 112 [2], clause 7.1.1.2
Config Id	CF03
PICS Selection	PICS_PICS GENERIC_IWK_OP_INSTANCE, PICS_OPERATION
Initial conditions	with {
	the CSE being in the "initial state" and
	the IUT having an OperationState class instance and
	the IUT having created <genericinterworkingoperationinstance> resource that is</genericinterworkingoperationinstance>
	related via the "hasOperationState" Object Property and
	the IUT having privileges to perform CREATE operation
Expected behaviour	Test events
Expected beliavious	when {
	the IUT starts and registers
	}
	then {
	the IUT sends a valid CREATE request containing
	To set to address of <i><genericinterworkingoperationinstance></genericinterworkingoperationinstance></i> resource and
	Resource-Type set to < semanticDescriptor> type and
	From set to AE-ID and
	Content containing
	<pre><semanticdescriptor> resource containing</semanticdescriptor></pre>
	descriptor attribute containing
	instance of the OperationState class containing
	rdf:about attribute containing
	the URI of the OperationInstance
	concatenated with the letter "*"
	and "OperationState"
	[]

TP ld	TP/SAP/SAREF/BV/020
Test objective	Check that the IUT sets the "oneM2MTargetURI" dataProperty in the <semanticdescriptor> for an</semanticdescriptor>
	OperationState class.
Reference	ETSI TS 118 112 [2], clause 7.1.1.2
Config Id	CF03
PICS Selection	PICS_GENERIC_IWK_OP_INSTANCE, PICS_OPERATION
Initial conditions	with {
	the CSE being in the "initial state" and
	the CSE having registered the IUT and
	the IUT gaving an OperationState class instance and
	the IUT having created <i><genericinterworkingoperationinstance< i=""> > resource that is</genericinterworkingoperationinstance<></i>
	related via the "hasOperationState" Object Property and
	the IUT having privileges to perform CREATE operation
Expected behaviour	Test events
	when {
	the IUT starts and registers
	<u> </u>
	then {
	the IUT sends a valid CREATE request containing
	To set to address of <i><genericinterworkingoperationinstance></genericinterworkingoperationinstance></i> resource and
	To set to address of <i><genericinterworkingoperationinstance></genericinterworkingoperationinstance></i> resource and Resource-Type set to <i><semanticdescriptor></semanticdescriptor></i> type and
	To set to address of < <i>genericInterworkingOperationInstance> resource</i> and Resource-Type set to < <i>semanticDescriptor> type</i> and From set to AE-ID and
	To set to address of < genericInterworkingOperationInstance> resource and Resource-Type set to < semanticDescriptor> type and From set to AE-ID and Content containing
	To set to address of <genericinterworkingoperationinstance> resource and Resource-Type set to <semanticdescriptor> type and From set to AE-ID and Content containing <semanticdescriptor> resource containing</semanticdescriptor></semanticdescriptor></genericinterworkingoperationinstance>
	To set to address of <genericinterworkingoperationinstance> resource and Resource-Type set to <semanticdescriptor> type and From set to AE-ID and Content containing <semanticdescriptor> resource containing descriptor attribute containing</semanticdescriptor></semanticdescriptor></genericinterworkingoperationinstance>
	To set to address of <genericinterworkingoperationinstance> resource and Resource-Type set to <semanticdescriptor> type and From set to AE-ID and Content containing <semanticdescriptor> resource containing descriptor attribute containing instance of the OperationState class containing</semanticdescriptor></semanticdescriptor></genericinterworkingoperationinstance>
	To set to address of <genericinterworkingoperationinstance> resource and Resource-Type set to <semanticdescriptor> type and From set to AE-ID and Content containing <semanticdescriptor> resource containing descriptor attribute containing instance of the OperationState class containing data property "oneM2MTargetURI"</semanticdescriptor></semanticdescriptor></genericinterworkingoperationinstance>
	To set to address of <genericinterworkingoperationinstance> resource and Resource-Type set to <semanticdescriptor> type and From set to AE-ID and Content containing <semanticdescriptor> resource containing descriptor attribute containing instance of the OperationState class containing data property "oneM2MTargetURI" containing</semanticdescriptor></semanticdescriptor></genericinterworkingoperationinstance>
	To set to address of <genericinterworkingoperationinstance> resource and Resource-Type set to <semanticdescriptor> type and From set to AE-ID and Content containing <semanticdescriptor> resource containing descriptor attribute containing instance of the OperationState class containing data property "oneM2MTargetURI" containing the URI of the</semanticdescriptor></semanticdescriptor></genericinterworkingoperationinstance>
	To set to address of <genericinterworkingoperationinstance> resource and Resource-Type set to <semanticdescriptor> type and From set to AE-ID and Content containing <semanticdescriptor> resource containing descriptor attribute containing instance of the OperationState class containing data property "oneM2MTargetURI" containing the URI of the genericInterworkingOperationInst</semanticdescriptor></semanticdescriptor></genericinterworkingoperationinstance>
	To set to address of <genericinterworkingoperationinstance> resource and Resource-Type set to <semanticdescriptor> type and From set to AE-ID and Content containing <semanticdescriptor> resource containing descriptor attribute containing instance of the OperationState class containing data property "oneM2MTargetURI" containing the URI of the</semanticdescriptor></semanticdescriptor></genericinterworkingoperationinstance>
	To set to address of <genericinterworkingoperationinstance> resource and Resource-Type set to <semanticdescriptor> type and From set to AE-ID and Content containing <semanticdescriptor> resource containing descriptor attribute containing instance of the OperationState class containing data property "oneM2MTargetURI" containing the URI of the genericInterworkingOperationInst</semanticdescriptor></semanticdescriptor></genericinterworkingoperationinstance>

TP Id	TP/SAP/SAREF/BV/021
Test objective	Check that the IUT instantiates the "OperationState" value in <semanticdescriptor> for an</semanticdescriptor>
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	OperationState class.
Reference	ETSI TS 118 112 [2], clause 7.1.1.2
Config Id	CF03
PICS Selection	PICS_ GENERIC_IWK_OP_INSTANCE, PICS_OPERATION
Initial conditions	with {
	the CSE being in the "initial state" and
	the CSE having registered the IUT and
	the IUT gaving an OperationState class instance and
	the IUT having created <i><genericinterworkingoperationinstance< i=""> > resource that is</genericinterworkingoperationinstance<></i>
	related via the "hasOperationState" Object Property and
	the IUT having privileges to perform CREATE operation
]}
Expected behaviour	Test events
	when {
	the IUT starts and registers
	then {
	the IUT sends a valid CREATE request containing
	To set to address of <i><genericinterworkingoperationinstance></genericinterworkingoperationinstance></i> resource and
	Resource-Type set to < <i>semanticDescriptor></i> type and
	From set to AE-ID and
	Content containing
	<pre><semanticdescriptor> resource containing</semanticdescriptor></pre>
	descriptor attribute containing
	instance of the OperationState class or subclass
	containing
	data property "oneM2MAttribute"
	containing
	the value "OperationState"
	}

TP Id	TP/SAP/SAREF/BV/022
Test objective	Check that the IUT creates for an Aspect class a <semanticdescriptor> resource under</semanticdescriptor>
	<container> resource.</container>
Reference	ETSI TS 118 112 [2], clause 7.1.1.2
Config Id	CF03
PICS Selection	PICS_CONTAINER, PICS_ASPECT
Initial conditions	with {
	the CSE being in the "initial state" and
	the IUT having an Aspect class instance and
	the IUT having created < Container> resource and
	the IUT having privileges to perform CREATE operation
Expected behaviour	Test events
Expected behaviour	
	when { the IUT starts and registers
	the for starts and registers
	J e e e e e e e e e e e e e e e e e e e
	then {
	the IUT sends a valid CREATE request containing
	To set to address of <container> and</container>
	Resource-Type set to < semanticDescriptor> type and
	From set to AE-ID and
	Content containing
	<pre><semanticdescriptor> resource containing</semanticdescriptor></pre>
	descriptor attribute containing
	instance of the Aspect class containing
	rdf:about attribute containing
	a URI that is unique within the
	oneM2M Solution.
)

TP Id	TP/SAP/SAREF/BV/023
Test objective	Check that the IUT creates for an Aspect class a <semanticdescriptor> resource under</semanticdescriptor>
	<flexcontainer> resource.</flexcontainer>
Reference	ETSI TS 118 112 [2], clause 7.1.1.2
Config Id	CF03
PICS Selection	PICS_FLEXCONTAINER, PICS_ASPECT
Initial conditions	with {
	the CSE being in the "initial state" and
	the IUT having an Aspect class instance and
	the IUT having created <flexcontaienr> resource and</flexcontaienr>
	the IUT having privileges to perform CREATE operation
	}
Expected behaviour	Test events
	when {
	the IUT starts and registers
	}
	then {
	the IUT sends a valid CREATE request containing
	To set to address of <flexcontainer> and</flexcontainer>
	Resource-Type set to < semanticDescriptor> type and
	From set to AE-ID and
	Content containing
	<pre><semanticdescriptor> resource containing</semanticdescriptor></pre>
	descriptor attribute containing
	instance of the Aspect class containing
	rdf:about attribute containing
	a URI that is unique within the oneM2M Solution.
	Onewizivi Solution.
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TP ld	TP/SAP/SAREF/BV/0247
Test objective	Check that the IUT creates for a Thing Class a <semanticdescriptor> resource under</semanticdescriptor>
	<container> resource.</container>
Reference	ETSI TS 118 112 [2], clause 7.1.1.2
Config Id	CF03
PICS Selection	PICS_CONTAINER, PICS_THING
Initial conditions	with {
	the CSE being in the "initial state" and
	the IUT having a Thing class or subclass instance and
	the IUT having created < Container > resource and
	the IUT having privileges to perform CREATE operation
5	
Expected behaviour	Test events
	when {
	the IUT starts and registers
	then {
	the IUT sends a valid CREATE request containing
	To set to address of <container> and</container>
	Resource-Type set to <semanticdescriptor> type and</semanticdescriptor>
	From set to AE-ID and
	Content containing
	<pre><semanticdescriptor> resource containing</semanticdescriptor></pre>
	descriptor attribute containing
	instance of the Thing class containing
	rdf:about attribute containing
	a URI that is unique within the
	oneM2M Solution.
	}

TP ld	TP/SAP/SAREF/BV/025
Test objective	Check that the IUT creates for a Thing Class a <semanticdescriptor> resource under</semanticdescriptor>
-	<flexcontainer> resource.</flexcontainer>
Reference	ETSI TS 118 112 [2], clause 7.1.1.2
Config Id	CF03
PICS Selection	PICS_FLEXCONTAINER, PICS_THING
Initial conditions	with {
	the CSE being in the "initial state" and
	the IUT having a Thing class instance and
	the IUT having created <flex<i>Container > resource and</flex<i>
	the IUT having privileges to perform CREATE operation
	}
Expected behaviour	Test events
	when {
	the IUT starts and registers
]}
	then {
	the IUT sends a valid CREATE request containing
	To set to address of <flexcontainer> and</flexcontainer>
	Resource-Type set to <semanticdescriptor> type and</semanticdescriptor>
	From set to AE-ID and
	Content containing
	<pre><semanticdescriptor> resource containing</semanticdescriptor></pre>
	descriptor attribute containing
	instance of the Thing class containing
	rdf:about attribute containing
	a URI that is unique within the
	oneM2M Solution.
	}

TP ld	TP/SAP/SAREF/BV/028
Test objective	Check that the IUT creates a for a saref:Device class a <semanticdescriptor> resource that</semanticdescriptor>
	contains the properties saref:hasModel and saref:hasManufacturer
Reference	ETSI TS 103 264 [1], clause 4.3
Config Id	CF03
PICS Selection	PICS_DEVICE, PICS_DATAPROPERTY
Initial conditions	with {
	the CSE being in the "initial state" and
	the IUT having privileges to perform CREATE operation and
	the IUT having an ontology instance containing an instantiation of a saref:Device class
	}
Expected behaviour	Test events
	when {
	the IUT starts and registers
	}
	then {
	the IUT sends a valid CREATE request containing
	To set to <ae><ae> and</ae></ae>
	Resource-Type set to < semanticDescriptor> type and
	From set to AE-ID and
	Content containing
	<semanticdescriptor> resource containing</semanticdescriptor>
	descriptor attribute containing
	instance of the saref:Device class and containing
	predicate indicating "saref:hasModel"
	and containing predicate indicating s
	aref:hasManufacturer"
	}

TP Id	TP/SAP/SAREF/BV/029
Test objective	Check that the IUT creates for a saref:Device a <semanticdescriptor> resource that contains at</semanticdescriptor>
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	least one saref:Function.
Reference	ETSI TS 103 264 [1], clause 4.3
Config Id	CF03
PICS Selection	PICS_DEVICE, PICS_FUNCTION
Initial conditions	with {
	the CSE being in the "initial state" and
	the IUT having privileges to perform CREATE operation and
	the IUT having an ontology instance containing an instantiation of a saref:Device class
	}
Expected behaviour	Test events
	when {
	the IUT starts and registers
	}
	then {
	the IUT sends a valid CREATE request containing To set to <ae><ae> and</ae></ae>
	Resource-Type set to <semanticdescriptor> type and From set to AE-ID and</semanticdescriptor>
	Content containing
	<pre><semanticdescriptor> resource containing</semanticdescriptor></pre>
	descriptor attribute containing
	instance of the saref:Device THE_DEVICE and
	attribute containing
	rdf:about indicating THE_DEVICE and
	predicate indicating "saref:hasFunction
	THE_FUNCTION) and
	attribute containing
	rdf:about indicating THE_FUNCTION
	}

TP Id	TP/SAP/SAREF/BV/030
Test objective	Check that the IUT creates for a saref:Function class a <semanticdescriptor> resource that</semanticdescriptor>
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	contains at least one saref:Command
Reference	ETSI TS 103 264 [1], clause 4.3
Config Id	CF03
PICS Selection	PICS_FUNCTION, PICS_COMMAND
Initial conditions	with {
	the CSE being in the "initial state" and
	the IUT having privileges to perform CREATE operation and
	the IUT having an ontology instance containing an instantiation of a saref:Function class
	}
Expected behaviour	Test events
	when {
	the IUT starts and registers
	<u>}</u>
	then {
	the IUT sends a valid CREATE request containing
	To set to <ae> and</ae>
	Resource-Type set to < semanticDescriptor> type and
	From set to AE-ID and
	Content containing <pre><semanticdescriptor> resource containing</semanticdescriptor></pre>
	descriptor attribute containing
	instance of the saref:Function THE_FUNCTION
	and
	attribute containing
	rdf:about indicating THE_FUNCTION and
	predicate indicating "saref:hasCommand"
	THE_COMMAND and
	attribute containing
	rdf:about indicating THE_COMMAND
	 }

TP ld	TP/SAP/SAREF/BV/031
Test objective	Check that the IUT creates for a saref:Service class a <semanticdescriptor> resource that</semanticdescriptor>
lest objective	contains at least one saref:Function.
Deference	
Reference	ETSI TS 103 264 [1], clause 4.3
Config Id	CF03
PICS Selection	PICS_FUNCTION, PICS_SERVICE
Initial conditions	with {
	the CSE being in the "initial state" and
	the IUT having privileges to perform CREATE operation and
	the IUT having an ontology instance containing an instantiation of a saref:Service class
	}
Expected behaviour	Test events
	when {
	the IUT starts and registers
	}
	then {
	the IUT sends a valid CREATE request containing
	To set to <ae> and</ae>
	Resource-Type set to < semanticDescriptor> type and
	From set to AE-ID and
	Content containing
	<pre><semanticdescriptor> resource containing</semanticdescriptor></pre>
	descriptor attribute containing
	instance of the saref:Service THE_SERVICE and
	attribute containing
	rdf:about indicating THE_SERVICE and
	predicate indicating "saref:hasFunction"
	THE_FUNCTION and
	attribute containing
	rdf:about indicating THE_FUNCTION
	Tullabout muleating THE_FONOTION
	<i>'</i>

_		
TP Id	TP/SAP/SAREF/BV/032	
Test objective	Check that the IUT creates for a saref:Service class a <semanticdescriptor> resource that</semanticdescriptor>	
	contains at least one saref:Device.	
Reference	ETSI TS 103 264 – 4.3	
Config Id	CF03	
PICS Selection	PICS_DEVICE, PICS_SERVICE	
Initial conditions	with {	
	the CSE being in the "initial state" and	
	the IUT having privileges to perform CREATE operation and	
	the IUT having an ontology instance containing an instantiation of a saref:Service class	
	}	
Expected behaviour	Test events	
	when {	
	the IUT starts and registers	
	 }	
	then {	
	the IUT sends a valid CREATE request containing	
	To set to <ae> and</ae>	
	Resource-Type set to < semanticDescriptor> type and	
	From set to AE-ID and	
	Content containing	
	<semanticdescriptor> resource containing</semanticdescriptor>	
	descriptor attribute containing	
	instance of the saref:Service THE_SERVICE and	
	attribute containing	
	rdf:about indicating PX_DEVICE_URI and	
	predicate indicating "saref:hasService"	
	THE_SERVICE	
]}	

TP ld	TP/SAP/SAREF/BV/033	
Test objective	Check that the IUT creates for a saref:Service class a <semanticdescriptor> resource that</semanticdescriptor>	
_	contains the input and output parameters necessary to operate the service.	
Reference	ETSI TS 103 264 [1], clause 4.3	
Config Id	CF03	
PICS Selection	PICS_SERVICE, PICS_ObjectProperty	
Initial conditions	with {	
	the CSE being in the "initial state" and	
	the IUT having privileges to perform CREATE operation and	
	the IUT having an ontology instance containing an instantiation of a saref:Service class	
	<u> </u>	
Expected behaviour	Test events	
	when {	
	the IUT starts and registers	
	than (
	then {	
	the IUT sends a valid CREATE request containing To set to <ae> and</ae>	
	Resource-Type set to < <i>semanticDescriptor> type</i> and	
	From set to AF-ID and	
	Content containing	
	<pre><semanticdescriptor> resource containing</semanticdescriptor></pre>	
	instance of the saref:Service and	
	containing	
	predicate indicating "saref:hasInputParameter"	
	and	
	containing	
	predicate indicating saref:hasOutputParameter"	
	}	

Annex A (informative): Notification Testcases

The testcases of the Annex A are describing some Notification functional test scenarios. They are relevant but informative as there is no corresponding requirements in the ETSI TS 118 112 [2] nor ETSI TS 103 264 [1].

TP ld	TP/SAP/SAREF/BV/034
Test objective	Check that the IUT updates its Device class or subclass after < semanticDescriptor> resource is
•	updated
Reference	ETSI TS 118 112 [2], clause 7.1
Config Id	CF03
PICS Selection	PICS_AE, PICS_DEVICE
Initial conditions	with {
	the IUT being in the "initial state" and
	the IUT having registered the AE and
	the IUT having created a <semanticdescriptor> resource containing</semanticdescriptor>
	a Device class or subclass instance
)
Expected behaviour	Test events
	when {
	the IUT receives a valid NOTIFY request containing
	Content containing
	A notification resource containing
	The updated Device class or subclass
	 }
	then {
	the IUT updates its Device class or subclass value}

TP Id	Device class/subclass
TP/SAP/SAREF/BV/034_01	saref:Device
TP/SAP/SAREF/BV/034_02	saref:Door switch
TP/SAP/SAREF/BV/034_03	saref:Energy meter
TP/SAP/SAREF/BV/034_04	saref:Light switch
TP/SAP/SAREF/BV/034_05	saref:Meter
TP/SAP/SAREF/BV/034_06	saref:Sensor
TP/SAP/SAREF/BV/034_07	saref:Smoke sensor
TP/SAP/SAREF/BV/034_08	saref:Switch
TP/SAP/SAREF/BV/034_09	saref:Temperature sensor
TP/SAP/SAREF/BV/034_10	saref:Washing machine

TP Id	TP/SAP/SAREF/BV/035	
Test objective	Check that the IUT updates its Service class or subclass after <semanticdescriptor> resource is</semanticdescriptor>	
	updated	
Reference	ETSI TS 118 112 [2], clause 7.1	
Config Id	CF03	
PICS Selection	PICS_GENERIC_IWK_SERVICE, PICS_SERVICE	
Initial conditions	with {	
	the IUT being in the "initial state" and	
	the IUT having registered the AE and	
	the IUT having created a <semanticdescriptor> resource containing</semanticdescriptor>	
	a Service class or subclass instance	
	}	
Expected behaviour	Test events	
Expected behaviour	Test events when {	
Expected behaviour		
Expected behaviour	when {	
Expected behaviour	when { the IUT receives a valid NOTIFY request containing	
Expected behaviour	when { the IUT receives a valid NOTIFY request containing Content containing	
Expected behaviour	when { the IUT receives a valid NOTIFY request containing Content containing A notification resource containing	
Expected behaviour	when { the IUT receives a valid NOTIFY request containing Content containing A notification resource containing	
Expected behaviour	when { the IUT receives a valid NOTIFY request containing Content containing A notification resource containing The updated Service class or subclass } then {	
Expected behaviour	when { the IUT receives a valid NOTIFY request containing Content containing A notification resource containing The updated Service class or subclass }	
Expected behaviour	when { the IUT receives a valid NOTIFY request containing Content containing A notification resource containing The updated Service class or subclass } then {	

TP Id	Service class/subclass
TP/SAP/SAREF/BV/035_01	saref:Service
TP/SAP/SAREF/BV/035_02	saref:Switch on service

TP Id	TP/SAP/SAREF/BV/036	
Test objective	Check that the IUT updates its Function class or subclass after <semanticdescriptor> resource</semanticdescriptor>	
	is updated.	
Reference	ETSI TS 118 112 [2], clause 7.1	
Config Id	CF03	
PICS Selection	PICS_FUNCTION	
Initial conditions	with {	
	the IUT being in the "initial state" and	
	the IUT having registered the AE and	
	the IUT having created a <semanticdescriptor> resource containing</semanticdescriptor>	
	a Function class or subclass instance	
	}	
Expected behaviour	Test events	
Expected behaviour	Test events when {	
Expected behaviour		
Expected behaviour	when {	
Expected behaviour	when { the IUT receives a valid NOTIFY request containing	
Expected behaviour	when { the IUT receives a valid NOTIFY request containing Content containing	
Expected behaviour	when { the IUT receives a valid NOTIFY request containing Content containing A notification resource containing	
Expected behaviour	when { the IUT receives a valid NOTIFY request containing Content containing A notification resource containing	
Expected behaviour	when { the IUT receives a valid NOTIFY request containing Content containing A notification resource containing	
Expected behaviour	when { the IUT receives a valid NOTIFY request containing Content containing A notification resource containing The updated Function class or subclass }	
Expected behaviour	when { the IUT receives a valid NOTIFY request containing Content containing A notification resource containing The updated Function class or subclass } then {	

TP Id	Functionality class/subclass
TP/SAP/SAREF/BV/036_01	saref:Function
TP/SAP/SAREF/BV/036_02	saref:Actuating function
TP/SAP/SAREF/BV/036_03	saref:On off function
TP/SAP/SAREF/BV/036_04	saref:Open close function
TP/SAP/SAREF/BV/036_05	saref:start stopfunction
TP/SAP/SAREF/BV/036_06	saref:Event function
TP/SAP/SAREF/BV/036_07	saref:Metering function
TP/SAP/SAREF/BV/036_08	saref:Sensing function

TP ld	TP/SAP/SAREF/BV/037	
Test objective	Check that the IUT updates its Command class or subclass after <semanticdescriptor></semanticdescriptor>	
-	resource is updated.	
Reference	ETSI TS 118 112 [2], clause 7.1	
Config Id	CF03	
PICS Selection	PICS_COMMAND	
Initial conditions	with {	
	the IUT being in the "initial state" and	
	the IUT having registered the AE and	
	the IUT having created a <semanticdescriptor> resource containing</semanticdescriptor>	
	a Command class or subclass instance	
	}	
Expected behaviour	Test events	
Expected behaviour	Test events when {	
Expected behaviour		
Expected behaviour	when { the IUT receives a valid NOTIFY request containing Content containing	
Expected behaviour	when { the IUT receives a valid NOTIFY request containing	
Expected behaviour	when { the IUT receives a valid NOTIFY request containing Content containing	
Expected behaviour	when { the IUT receives a valid NOTIFY request containing Content containing A notification resource containing	
Expected behaviour	when { the IUT receives a valid NOTIFY request containing Content containing A notification resource containing	
Expected behaviour	when { the IUT receives a valid NOTIFY request containing Content containing A notification resource containing	
Expected behaviour	when { the IUT receives a valid NOTIFY request containing Content containing A notification resource containing The updated Command class or subclass }	
Expected behaviour	when { the IUT receives a valid NOTIFY request containing Content containing A notification resource containing The updated Command class or subclass } then {	

TP ld	Command class/subclass
TP/SAP/SAREF/BV/037_01	saref:Command
TP/SAP/SAREF/BV/037_02	saref:Close command
TP/SAP/SAREF/BV/037_03	saref:Get command
TP/SAP/SAREF/BV/037_04	saref:Get current meter value command
TP/SAP/SAREF/BV/037_05	saref:Get meter data command
TP/SAP/SAREF/BV/037_06	saref:Get meter history command
TP/SAP/SAREF/BV/037_07	saref:Get sensing data command
TP/SAP/SAREF/BV/037_08	saref:Notify command
TP/SAP/SAREF/BV/037_09	saref:Off command
TP/SAP/SAREF/BV/037_10	saref:On command
TP/SAP/SAREF/BV/037_11	saref:Open command
TP/SAP/SAREF/BV/037_12	saref:Pause command
TP/SAP/SAREF/BV/037_13	saref:Set level command
TP/SAP/SAREF/BV/037_14	saref:Set absolute level command
TP/SAP/SAREF/BV/037_15	saref:Set relative level command
TP/SAP/SAREF/BV/037_16	saref:Start command
TP/SAP/SAREF/BV/037_17	saref:Step down command
TP/SAP/SAREF/BV/037_18	saref:Step up command
TP/SAP/SAREF/BV/037_19	saref:Stop command
TP/SAP/SAREF/BV/037_20	saref:Toggle command

TP ld	TP/SAP/SAREF/BV/038	
Test objective	Check that the IUT updates its Object Property after <semanticdescriptor> resource is updated.</semanticdescriptor>	
Reference	ETSI TS 118 112 [2], clause 7.1	
Config Id	CF03	
PICS Selection	PICS_OBJECT_PROPERTY	
Initial conditions	with {	
	the IUT being in the "initial state" and	
	the IUT having registered the AE and	
	the IUT having created a <semanticdescriptor> resource containing</semanticdescriptor>	
	a Object Property instance	
	}	
Expected behaviour	Test events	
	when { the IUT receives a valid NOTIFY request containing Content containing A notification resource containing The updated Object Property } then { the IUT updates its Object Property }	

TP Id	Object Property
TP/SAP/SAREF/BV/038_01	saref:accomplishes
TP/SAP/SAREF/BV/038_02	saref:acts upon
TP/SAP/SAREF/BV/038_03	saref:consists of
TP/SAP/SAREF/BV/038_04	saref:contains
TP/SAP/SAREF/BV/038_05	saref:has category
TP/SAP/SAREF/BV/038_06	saref:has command
TP/SAP/SAREF/BV/038_07	saref:has consumption
TP/SAP/SAREF/BV/038_08	saref:has function
TP/SAP/SAREF/BV/038_09	saref:has input parameter
TP/SAP/SAREF/BV/038_10	saref:has meter reading
TP/SAP/SAREF/BV/038_11	saref:has meter reading time
TP/SAP/SAREF/BV/038_12	saref:has output parameter
TP/SAP/SAREF/BV/038_13	saref:has price
TP/SAP/SAREF/BV/038_14	saref:has production
TP/SAP/SAREF/BV/038_15	saref:has profile
TP/SAP/SAREF/BV/038_16	saref:has sensing range
TP/SAP/SAREF/BV/038_17	saref:has sensing time
TP/SAP/SAREF/BV/038_18	saref:has singular unit
TP/SAP/SAREF/BV/038_19	saref:has state
TP/SAP/SAREF/BV/038_20	saref:has threshold
TP/SAP/SAREF/BV/038_21	saref:has time
TP/SAP/SAREF/BV/038_22	saref:has typical consumption
TP/SAP/SAREF/BV/038_23	saref:is accomplished by
TP/SAP/SAREF/BV/038_24	saref:is category of
TP/SAP/SAREF/BV/038_25	saref:is command of
TP/SAP/SAREF/BV/038_26	saref:is located in
TP/SAP/SAREF/BV/038_27	saref:is measured in
TP/SAP/SAREF/BV/038_28	saref:is offered by
TP/SAP/SAREF/BV/038_29	saref:Is used for
TP/SAP/SAREF/BV/038_30	saref:offers
TP/SAP/SAREF/BV/038_31	saref:represents

TP Id	TP/SAP/SAREF/BV/039			
Test objective	Check that the IUT updates its Data Property after <semanticdescriptor> resource is updated.</semanticdescriptor>			
Reference	ETSI TS 118 112 [2], clause 7.1			
Config Id	CF03			
PICS Selection	PICS_DATA_PROPERTY			
Initial conditions	with {			
	the IUT being in the "initial state" and			
	the IUT having registered the AE and			
	the IUT having created a <semanticdescriptor> resource containing</semanticdescriptor>			
	a Data Property instance			
	}			
Expected behaviour	Test events			
	when {			
	the IUT receives a valid NOTIFY request containing			
	Content containing			
	A notification resource containing			
	The updated Data Property			
	}			
	then {			
	the IUT updates its Data Property			
	 			

TP Id	Data Property	
TP/SAP/SAREF/BV/039_01	saref:has description	
TP/SAP/SAREF/BV/039_02	saref:has manufacturer	
TP/SAP/SAREF/BV/039_03	saref:has meter reading type	
TP/SAP/SAREF/BV/039_04	saref:has model	
TP/SAP/SAREF/BV/039_05	saref:has name	
TP/SAP/SAREF/BV/039_06	saref:has sensor type	
TP/SAP/SAREF/BV/039_07	saref:has space type	
TP/SAP/SAREF/BV/039_08	saref:has task	
TP/SAP/SAREF/BV/039_09	saref:has value	
TP/SAP/SAREF/BV/039_10	saref:is flexible	·
TP/SAP/SAREF/BV/039_11	saref:is interruption possible	

History

Document history				
V1.1.1	April 2017	Publication		