ETSI GS CIM 013 V1.1.1 (2021-05)



Context Information Management (CIM); NGSI-LD Test Purposes Descriptions (standards.iteh.ai)

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Foreword

ETSI GS CIM 013 V1.1.1 (2021-05)

This Group Specification (GS) has been produced by ETSI Industry Specification Group (ISG) cross-cutting Context Information Management (CIM). c1814faa260c/etsi-gs-cim-013-v1-1-1-2021-05

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 contains the description of each abstract test case using the Test Template [i.2] and using the Test Purposes Description Language identified in ETSI GS CIM 012 [2] and ETSI GR CIM 011 [i.1]. The test cases are described in tabular form.

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 GS CIM 009 (V1.3.1) (08-2020): "Context Information Management (CIM); NGSI-LD
	API". iTeh STANDARD PREVIEW

- [2] ETSI GS CIM 012 (V1.1.1) (03-2021); "Context Information Management (CIM); NGSI-LD Test Suite Structure".
- [3] ISO 8601: 2004: "Data elements and interchange formats -- Information interchange -- Representation of dates and times" and times are compared to the second an

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.

[i.1]	ETSI GR CIM 011 (V1.1.1) (04-2021): "Context Information Management (CIM); NGSI-LD
	Testing Framework: Test Purposes Description Language (TPDL)".

[i.2] ETSI GS CIM 016 (V1.1.1) (04-2021): "Context Information Management (CIM); NGSI-LD Testing Framework: Test Template".

3 Definition of terms, symbols and abbreviations

3.1 Terms

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

context registry: software functional element where Context Sources register the information that they can provide

context source: source of context information which implements the NGSI-LD consumption and subscription (and possibly provision) interfaces defined by the present document

entity: informational representative of something that is supposed to exist in the real world, physically or conceptually

valid: According to the specification references in the normative reference. For example a datatype needs to be represented as stated in the specification.

3.2 Symbols

Void.

3.3 Abbreviations

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

CF Config Identifier
DEL DELETE
HTTP HperText Transfer Protocol
JSON Java Script Object Notation
PICS Profile Implementation Conformance Statement

SUT System Under Test

TP Test Purpose

URI Unified Resource Identification URL Unified Resource Location

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4 Test Purposes Descriptions h.ai)

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4.1 Context information talog/standards/sist/37ec50a4-d72b-47b0-a995-c1814faa260c/etsi-gs-cim-013-v1-1-1-2021-05

4.1.1 Provision

4.1.1.1 Entities

4.1.1.1.1 Create Entity

TP ld	TP/NGSI-LD/CI/Prov/E/001_01
Test objective	Check that you can create an entity
Reference	ETSI GS CIM 009 V1.3.1 [1], clause 5.6.1
Config Id	CF_01
Parent Release	V1.3.1
PICS Selection	PICS_5_6_1
Initial conditions	with { the SUT being in the "initial state" }

Expected behaviour		Test events		Direction	
	when { the SUT receives a valid Create Entity Request from the client containing				
	URL set to /ng	gsi-ld/v1/entities and			
	method set to	POST and		SUT ← Client	
	Header: Conte	ent-Type set to \${contentType} and			
	body set to \${	entity} to be created			
	}				
	then { the SUT send	s a valid Response containing			
	Respons	e Status Code set to 201 (CREATED)		SUT → Client	
	Created	Entity set to \${entity}			
	}				
Permutatio	n on TP ld	\${contentType}	\${entit	y}	
001_01_01		Application/json	Minimal entity		
001_01_02		Application/json+ld	Simple properties		
001_01_03		Application/json+ld	Relationship of prop		
001_01_04		Application/json+ld	With a location attrib	ute	

TP ld	TP/NGSI-LD/CI/Prov/E/001_02 ARD PREVE	
Test objective	Check that you cannot create an entity with invalid content	
Reference	ETSI GS CIM 009 V1.3.1 [1], clause 5.6.1	
Config Id	ETSI GS CIM 013 V1 1.1 (2021-05) CF _{https://standards.iteh.ai/catalog/standards/sist/37ec50a4-d72b-47b0-a995-}	
Parent Release	V1.3.1 c1814faa260c/etsi-gs-cim-013-v1-1-1-2021-05	
PICS Selection	PICS_5_6_1	
Initial conditions	with { the SUT being in the "initial state" }	
Expected behaviour		
Dellavioui	when { the SUT receives a Create Entity Request from the client containing URL set to /ngsi-ld/v1/entities and method set to POST and Header: Content-Type set to application/ld+json and body set to \${invalid_body}	SUT ←Client
	then { the SUT sends a valid Response containing Response Status Code set to 400 (Bad Request) and Response Body containing ProblemDetails element containing type element set to \${problem_type} and	SUT → Client

	title element containing	
	more information about the error	
}		
Permutation on TP Id	\${invalid_body}	\${problem_type}
TP/NGSI-LD/CI/Prov/E/001_02_01	invalid JSON document	https://uri.etsi.org/ngsi- ld/errors/InvalidRequest
TP/NGSI-LD/CI/Prov/E/001_02_02	empty	https://uri.etsi.org/ngsi- ld/errors/BadRequestData
TP/NGSI-LD/CI/Prov/E/001_02_03	entity with no context	https://uri.etsi.org/ngsi- ld/errors/BadRequestData

TP ld	TP/NGSI-LD/CI/Prov/E/001_03		
Test objective	Check that you cannot create an entity with an existing id		
Reference	ETSI GS CIM 009 V1.3.1 [1], clause 5.6.1		
Config Id	CF_01		
Parent Release	V1.3.1		
PICS Selection	PICS_5_6_1		
Initial conditions	with { the SUT being in the "initial state" and containing an initial Entity with an id set to \${entity d} eh STANDARD PREVIEW }		
Expected behaviour	Test events	Direction	
	when { the SUT receives a Create Entity Request from the client containing URL set to /ngsi-Id/v1/entities and method set to POST and Header: Content-Type set to application/Id+json and body containing \${entity} with the id set to \${entityId} }	SUT ← Client	
	then { the SUT sends a valid Response containing Response Status Code set to 409 (Already Exists) and Response Body containing ProblemDetails element containing type element set to https://uri.etsi.org/ngsi- Id/errors/AlreadyExists and title element containing more information about the error }	SUT → Client	

==	TT 11001 LT 1010 LT 1001 D 1		
TP ld	TP/NGSI-LD/CI/Prov/E/001_04		
Test objective	Check that the @context is obtained from a Link Header if the Content-Type header is "application/json"		
Reference	ETSI GS CIM 009 V1.3.1 [1], clause 6.3.5		
Config Id	CF_01		
Parent Release	V1.3.1		
PICS Selection	PICS_6_3_5		
Initial conditions	with { the SUT being in the "initial state"		
	}		
Expected behaviour	Test events	Direction	
	the SUT receives a valid Create Entity Request from the client containing URL set to /ngsi-Id/v1/entities and Header: Content-Type set to application/json and Header: Link set to a @context containing terms used by the entity to create body set to entity to be created S. iteh. 21 }	SUT ← Client	
	then { http://doi.org/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1001/10.1	SUT → Client	

TDII	TD/NGG/ L D/G//D // 15/004 - 05
TP ld	TP/NGSI-LD/CI/Prov/E/001_05
Test objective	Check that the default @context is used if the Content-Type header is "application/json" and the Link header does not contain a JSON-LD @context
Reference	ETSI GS CIM 009 V1.3.1 [1], clause 6.3.5
Config Id	CF_01
Parent Release	V1.3.1
PICS Selection	PICS_6_3_5
Initial conditions	with { the SUT being in the "initial state" }

Expected behaviour	Test events	Direction
Seliavioui	when { the SUT receives a valid Create Entity Request from the client containing URL set to /ngsi-ld/v1/entities and Header: Content-Type set to application/json and body set to entity to be created }	SUT ← Client
	then { the SUT sends a valid Response containing Response Status Code set to 201 (Created) and Persisted Entity contains type and attributes expanded as per the default @context }	SUT → Client

TP ld	TP/NGSI-LD/CI/Prov/E/001_06	
Test objective	Check that an HTTP error response of type BadRequestData is raised if the Coheader is "application/json" and the request payload body (as JSON) contains term	
Reference	ETSI GS CIM 009 V1.3.1 [1], clause 6.3:5	
Config Id	CF_01 ETSI GS CIM 013 V1.1.1 (2021-05)	
Parent Release	V1.3ps://standards.iien.avcatalog/standards/sisv3/ec30a4-d726-4760-a993- c1814faa260c/etsi-gs-cim-013-v1-1-1-2021-05	
PICS Selection	PICS_6_3_5	
Initial conditions	with { the SUT being in the "initial state" }	
Expected	Test events	Direction
behaviour	when { the SUT receives a valid Create Entity Request from the client containing URL set to /ngsi-Id/v1/entities and Header: Content-Type set to application/json and body set to entity containing a @context term }	SUT ← Client
	then { the SUT sends a valid Response containing Response Status Code set to 400 (Bad Request) and Response Body containing	SUT → Client

type element set to https://uri.etsi.org/ngsi-ld/errors/BadRequestData and	
title element containing	
more information about the error	
}	

TP ld	TP/NGSI-LD/CI/Prov/E/001_07	
Test objective	Check that the @context is obtained from the request payload body itself if the header is "application/ld+json"	Content-Type
Reference	ETSI GS CIM 009 V1.3.1 [1], clause 6.3.5	
Config Id	CF_01	
Parent Release	V1.3.1	
PICS Selection	PICS_6_3_5	
Initial conditions	with { the SUT being in the "initial state" }	
Expected behaviour	iTeh STANDARD PREVIEW	Direction
	when {	SUT ← Client
	then { the SUT sends a valid Response containing Response Status Code set to 201 (Created) and Persisted Entity contains type and attributes expanded as per the supplied @context }	SUT → Client

TP ld	TP/NGSI-LD/CI/Prov/E/001_08
Test objective	Check that an HTTP error response of type BadRequestData is raised if the Content-Type header is "application/ld+json" and the request payload body does not contain a @context term
Reference	ETSI GS CIM 009 V1.3.1 [1], clause 6.3.5
Config Id	CF_01
Parent Release	V1.3.1
PICS Selection	PICS_6_3_5

Initial conditions	with { the SUT being in the "initial state"	
	}	
Expected behaviour	Test events	Direction
bellavioui	when {	
	the SUT receives a valid Create Entity Request from the client containing	
	URL set to /ngsi-ld/v1/entities and	SUT ← Client
	Header: Content-Type set to application/ld+json and	
	body set to entity not containing a @context term	
	then {	
	the SUT sends a valid Response containing	
	Response Status Code set to 400 (Bad Request) and	
	Response Body containing	
	ProblemDetails element containing	SUT → Client
	type element set to https://uri.etsi.org/ngsi-ld/errors/BadRequestData and ARD PREVIEW	SUI -> Client
	(title element containing standards. Iteh.ai)	
	more information about the error ETSLGS CIM 013 V1.1.1 (2021-05)	
	https://standards.iteh.ai/catalog/standards/sist/37ec50a4-d72b-47b0-a995-	

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TP ld	TP/NGSI-LD/CI/Prov/E/001_09	
Test objective	Check that an HTTP error response of type BadRequestData is raised if the Coheader is "application/ld+json" and a JSON-LD Link header is present in the intequest	
Reference	ETSI GS CIM 009 V1.3.1 [1], clause 6.3.5	
Config Id	CF_01	
Parent Release	V1.3.1	
PICS Selection	PICS_6_3_5	
Initial conditions	with { the SUT being in the "initial state"	
Funcated	Tool sugarts	Direction
Expected behaviour	Test events	Direction
	when {	
	the SUT receives a valid Batch Entity Create Request from the client containing	SUT ← Client
	URL set to /ngsi-ld/v1/entities and	
	Header: Content-Type set to application/ld+json and	

Header: Link set to a @context containing terms used by the entity to	
body set to entity to be created }	
then { the SUT sends a valid Response containing	
Response Status Code set to 400 (Bad Request) and	
Response Body containing	
ProblemDetails element containing	
type element set to https://uri.etsi.org/ngsi-ld/errors/BadRequestData and	SUT → Client
title element containing	
more information about the error	
}	

4.1.1.1.2 Delete Entity

TP ld	TP/NGSI-LD/CI/Prov/E/002_01	
Test objective	Check that you can delete an entity by id	
Reference	ETSI GS CIM 009 V1.3.1 [1], clause 5.6.6 (CII. 21)	
Config Id	CF_01 ETSI GS CIM 013 V1.1.1 (2021-05)	
Parent Release	√night//standards.iteh.a/catalog/standards/sist/3/ec50a4-d/2b-4/b0-a995- c1814faa260c/etsi-gs-cim-013-v1-1-1-2021-05	
PICS Selection	PICS_5_6_6	
Initial conditions	with { the SUT being in the "initial state" and containing an initial Entity with an id \${entityId}	set to
	}	
Expected behaviour	Test events	Direction
2012110	when { the SUT receives a valid Delete Entity Request from the client containing	SUT ← Client
	URL set to /ngsi-ld/v1/entities/\${entityId} and	
	method set to DEL }	
	then { the SUT sends a valid Response containing	SUT → Client
	Response Status Code set to 204 (No Content)	
	and does not contain an entity with \${entityId}	
	}	

TP ld	TP/NGSI-LD/CI/F	Prov/E/002_02		
Test objective	Check that you cannot delete an entity with invalid/missing id			
Reference	ETSI GS CIM 00	9 V1.3.1 [1], clause 5.6.6		
Config Id	CF_01			
Parent Release	V1.3.1			
PICS Selection	PICS_5_6_6			
Initial conditions	with { the SUT being	in the "initial state"		
	}			
Expected behaviour		Test events		Direction
Sonaviou	when { the SUT receive	ves an invalid Delete Entity Reque	st from the client	SUT ← Client
	URL set to	/ngsi-ld/v1/entities/ {entityId_inva	lid} and	
	method set	t to DEL		
	iTeResp	ends a valid Response containing onse Status Code set to 400 (Bad onse Body containing 110	Request) and	SUT → Client
	https://standards	roblemDetails element containing ETSLGS CIM 013 V1.1.1 (2021- i.ittype@lement:setuto:\${problema 814faa260c/etsi-gs-cim-013-v1-1-1-2	<u>15)</u> (type}\and b0-a995-	
		title element containing	3021 03	
		more information about the	eerror	
	}			
Permutation		\${entityId_invalid}	\${problem	
TP/NGSI-LD/CI/Prov/	E/002_02_01	Empty	https://uri.etsi.org/ngs	
TP/NGSI-LD/CI/Prov/	/E/002_02_02	invalid URI	Id/errors/BadReques https://uri.etsi.org/ngs Id/errors/BadReques	si-

TP ld	TP/NGSI-LD/CI/Prov/E/002_03
Test objective	Check that you cannot delete an entity if the entity id is not known to the system
Reference	ETSI GS CIM 009 V1.3.1 [1], clause 5.6.6
Config Id	CF_01
Parent Release	V1.3.1
PICS Selection	PICS_5_6_6
Initial	with {
conditions	the SUT being in the "initial state"
	}