ETSI GS CIM 013 V2.1.1 (2024-04)



Context Information Management (CIM); NGSI-LD Test Purposes Descriptions

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ETSI GS CIM 013 V2.1.1 (2024-04)

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Reference RGS/CIM-0013v211 Keywords API, IoT, NGSI-LD, testing

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Foreword

This Group Specification (GS) has been produced by ETSI Industry Specification Group (ISG) cross-cutting Context Information Management (CIM).

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. All clauses mentioned in tables of clause 4 of the present document are references to the NGSI-LD specification, hence to be found in [1].

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 (V1.5.1) (2021-11): "Context Information Management (CIM); NGSI-LD API".
 [2] ETSI GS CIM 012 (V1.1.1) (2021-03): "Context Information Management (CIM); NGSI-LD Test Suite Structure".
- [3] Void. Document Preview

2.2 Informative references 1013 V2.1.1 (20)

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

NOTE: The letters "NGSI-LD" were added to most terms to confirm that they are distinct from other terms of

similar/same name in use in other organizations, however, in the present document the letters "NGSI-LD"

are generally omitted for brevity.

NGSI-LD Central Broker: NGSI-LD Context Broker that only uses a local storage when serving NGSI-LD requests, without involving any external Context Sources

NGSI-LD Context Broker: architectural component that implements all the NGSI-LD interfaces

NGSI-LD Context Consumer: agent that uses the query and subscription functionality of NGSI-LD to retrieve context information

NGSI-LD Context Producer: agent that uses the NGSI-LD context provision and/or registration functionality to provide or announce the availability of its context information to an NGSI-LD Context Broker

NGSI-LD Context Registry: software functional element where Context Sources register the information that they can provide

NOTE: It is used by Distribution Brokers and Federation Brokers to find the appropriate Context Sources which can provide the information required for serving an NGSI-LD request.

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

NOTE: It is usually registered with an NGSI-LD Registry so that it can announce what kind of information it can provide, when requested, to Context Consumers and Brokers.

NGSI-LD Distribution Broker: NGSI-LD Context Broker that uses both local context information and registration information from an NGSI-LD Context Registry, to access matching context information from a set of distributed Context Sources

NGSI-LD Federation Broker: Distribution Broker that federates information from multiple underlying NGSI-LD Context Brokers and across domains

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

4 Test Purposes Descriptions

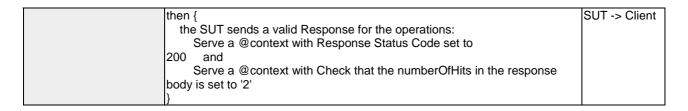
4.1 jsonldContext

4.1.1 Consumption

4.1.1.1 ServeContext

TP Id	TP/NGSI-LD/CTX/Cons/053_06	
Test objective	Check that the numberOfHits is increased after using a Cached context	
Reference	ETSI GS CIM 009 V1.5.1 [1], clause 5.13.4	
Config Id	CF_01	
PICS Selection	PICS_SerOneSpeUse@co	
Initial conditions	with { the SUT containing a Cached @context created from a entity creation the	rough
	downloading from external server. }	lougii
	Permutations	
TP Permutation id	TP/NGSI-LD/CTX/Cons/053_06_01	
Name	053_06_01 Check that the numberOfHits is increased after using a Cached co	ntext
Parent Release	v1.5.1	-
Description	Check that the numberOfHits is increased after using a Cached context	
Expected behaviour	Test events	Direction
	when { the SUT receives a Request from the client containing: URL set to '/ ngsi-ld/v1/jsonldContexts/{contextId}' method set to 'GET' Serve a @context with contextID '\$ {uri}' and details 'true' } then { the SUT sends a valid Response for the operations: Serve a @context with Response Status Code set to	SUT <- Client SUT -> Client
ndards.iteh.ai/catalog/	Serve a @context with Response Status Code set to 200 and Serve a @context with Check that the numberOfHits in the response body is set to '2' 121 edof-6450-40b2-9e7e-d94e3fc3bce0/etsi-gs-ci }	m-013-v2-1-

TP ld	TP/NGSI-LD/CTX/Cons/053_04		
Test objective	Check that one can get an increase numberOfHits after creation of a Hoster	d @context and	
	using it		
Reference	ETSI GS CIM 009 V1.5.1 [1], clause 5.13.4		
Config Id	CF_01		
PICS Selection	PICS_SerOneSpeUse@co		
Initial conditions	with { the SUT containing a Cached @context created from a entity creation	through	
	downloading from external server. }		
	Permutations		
TP Permutation id	TP/NGSI-LD/CTX/Cons/053_04_01		
Name	053_04_01 Check that the numberOfHits is increased after using a Hosted context		
Parent Release	v1.5.1		
Description	Check that the numberOfHits is increased after using a Hosted context		
Expected behaviour	Test events	Direction	
	when {	SUT <- Client	
	the SUT receives a Request from the client containing:		
	URL set to '/		
	ngsi-ld/v1/jsonldContexts/{contextId}'		
	method set to 'GET'		
	Serve a @context with contextID '\$		
	{uri}' and details 'true'		
	}		



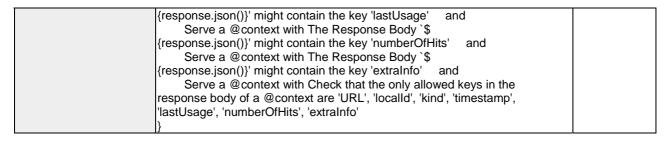
TP ld	TP/NGSI-LD/CTX/Cons/053_02	
Test objective	Check that one can serve a previous created @context with details equal to T	rue
Reference	ETSI GS CIM 009 V1.5.1 [1], clause 5.13.4	
Config Id	CF_01	
PICS Selection	PICS_SerOneSpeUse@co	
Initial conditions	with { the SUT containing a Hosted @context and the default Cached Core Co	ontext. }
	Permutations	
TP Permutation id	TP/NGSI-LD/CTX/Cons/053_02_01	
Name	053_02_01 Serve a @context with details set to True	
Parent Release	v1.5.1	
Description	Check that one can serve a @context with details	
Expected behaviour	Test events	Direction
	when { the SUT receives a Request from the client containing: URL set to '/ ngsi-ld/v1/jsonldContexts/{contextId}' method set to 'GET' Serve a @context with contextID '\$ {uri}' and details 'true' }	SUT <- Client
ndards.iteh.ai/catalog/s	then { the SUT sends a valid Response for the operations: Serve a @context with Response Status Code set to 200 and Serve a @context with Response reason set to 'OK' and Serve a @context with Response Header: Content- Type set to application/ json and Serve a @context with Check the Body of the response should contain a @context with 'URL' key not Empty and 'string' type, with 'localld' key not Empty and 'string' type, with 'kind' key not Empty, 'string' type, and value set to 'Hosted', and 'timestamp and 'DateTime' format and Serve a @context with The Response Body `\$ {response.json()}' might contain the key 'lastUsage' and Serve a @context with The Response Body `\$ {response.json()}' might contain the key 'numberOfHits' and Serve a @context with The Response Body `\$ {response.json()}' might contain the key 'extraInfo' and Serve a @context with Check that the only allowed keys in the response body of a @context are 'URL', 'localld', 'kind', 'timestamp', 'lastUsage', 'numberOfHits', 'extraInfo'	m-013-v2-1-

TP Id	TP/NGSI-LD/CTX/Cons/053_05
Test objective	Check that the context served by a context server is still in the broker after a
	ERROR_TYPE_LD_CONTEXT_NOT_AVAILABLE with details=true
Reference	ETSI GS CIM 009 V1.5.1 [1], clause 5.13.4
Config Id	CF_01
PICS Selection	PICS_SerOneSpeUse@co
	with { the SUT containing a Cached @context created from a entity creation through
	downloading from external server. }
	Permutations
TP Permutation id	TP/NGSI-LD/CTX/Cons/053_05_01
Name	053_05_01 Check that the context served by a context server is still in the broker after a
	ERROR_TYPE_LD_CONTEXT_NOT_AVAILABLE with details=true
Parent Release	v1.5.1

Description	Check that the context served by a context server is still in the broker after a ERROR_TYPE_LD_CONTEXT_NOT_AVAILABLE with details=true			
Expected behaviour	Test events	Direction		
·	when { the SUT receives a Request from the client containing: URL set to '/ ngsi-ld/v1/jsonldContexts/{contextId}' method set to 'GET' Serve a @context with contextID '\$ {uri}' and details 'true' }	SUT <- Client		
	then { the SUT sends a valid Response for the operations: Serve a @context with Response Status Code set to 200 and Serve a @context with Response reason set to 'OK' and Serve a @context with Response Header: Content- Type set to application/ json and Serve a @context with Check the Body of the response should contain a @context with 'URL' key not Empty and 'string' type, with 'localld' key not Empty and 'string' type, with 'kind' key not Empty, 'string' type, and value set to 'Cached', and 'timestamp and 'DateTime' format and Serve a @context with The Response Body `\$ {response.json()}' might contain the key 'lastUsage' and Serve a @context with The Response Body `\$ {response.json()}' might contain the key 'numberOfHits' and Serve a @context with The Response Body `\$ {response.json()}' might contain the key 'extraInfo' and Serve a @context with Check that the only allowed keys in the response body of a @context are 'URL', 'localld', 'kind', 'timestamp', 'lastUsage', 'numberOfHits', 'extraInfo' }	SUT -> Client		

TP ld	TP/NGSI-LD/CTX/Cons/053_07			
Test objective	Check that one can serve a ImplicitlyCreated @context with details set to true			
Reference	ETSI GS CIM 009 V1.5.1 [1], clause 5.13.4			
Config Id	CF_01 ETST GS CTM 013 V2.1.1 (2024-04)			
PICS Selection	PICS_SerOneSpeUse@co 6450-40b2-9e7e-d94e3fc3bce0/etsi-gs-cim-013-			
Initial conditions	with { the SUT containing a ImplicitlyCreated @context created from a subscription query. }			
	Permutations			
TP Permutation id	TP/NGSI-LD/CTX/Cons/053_07_01			
Name	053_07_01 Check that one can serve a ImplicitlyCreated @context with detail	ls set to true		
Parent Release	v1.5.1			
Description	Check that one can serve a ImplicitlyCreated @context with details set to true)		
Expected behaviour	Test events	Direction		
	when { the SUT receives a Request from the client containing: URL set to '/ ngsi-ld/v1/jsonldContexts/{contextId}' method set to 'GET' Serve a @context with contextID '\$ {implicit_id}' and details 'true' }	SUT <- Client		
	then { the SUT sends a valid Response for the operations: Serve a @context with Response Status Code set to 200 and Serve a @context with Response reason set to 'OK' and Serve a @context with Response Header: Content- Type set to application/ json and Serve a @context with Check the Body of the response should contain a @context with 'URL' key not Empty and 'string' type, with 'localld' key not Empty and 'string' type, with 'kind' key not Empty, 'string' type, and value set to 'ImplicitlyCreated', and 'timestamp and 'DateTime' format and Serve a @context with The Response Body `\$	SUT -> Client		

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TP ld	TP/NGSI-LD/CTX/Cons/053_03		
Test objective	Check that one gets an error when try to serve a @context		
Reference	ETSI GS CIM 009 V1.5.1 [1], clause 5.13.4		
Config Id	CF_01		
PICS Selection	PICS_SerOneSpeUse@co		
Initial conditions	with { the SUT containing a Hosted @context and the default Cached Core C	ontext. }	
	Permutations		
TP Permutation id	TP/NGSI-LD/CTX/Cons/053_03_01		
Name	053_03_01 Serve a @contexts with a wrong id and correct details		
Parent Release	v1.5.1		
Description	Check that an error is returned when one requests for a @context that does r		
Expected behaviour	Test events	Direction	
	when { the SUT receives a Request from the client containing: URL set to '/ ngsi-Id/v1/jsonIdContexts/{contextId}' method set to 'GET' Serve a @context with contextID 'wrong_id_context' and details 'true' }	SUT <- Client	
	then { the SUT sends a valid Response for the operations: Serve a @context with Response Status Code set to 404 and Serve a @context with Response reason set to 'Not Found' and Serve a @context with Response Body containing the type '\$ {ERROR_TYPE_RESOURCE_NOT_FOUND}' and Response Body Title is a string and is not \${EMPTY}		
dards.iteh.ai/catalog/	and Response Body Detail is a string and is not	im-013-v2-1-	
TP Permutation id	TP/NGSI-LD/CTX/Cons/053_03_02		
Name	053_03_02 Serve a @contexts with a valid id and incorrect details		
Parent Release	v1.5.1		
Description	Check that an error is returned when one requests for a @context that does r	not exist	
Expected behaviour	Test events	Direction	
	when { the SUT receives a Request from the client containing: URL set to '/ ngsi-Id/v1/jsonIdContexts/{contextId}' method set to 'GET' Serve a @context with contextID '\$ {uri}' and details 'other' }	SUT <- Client	
	then { the SUT sends a valid Response for the operations: Serve a @context with Response Status Code set to 400 and Serve a @context with Response reason set to 'Bad Request' and Serve a @context with Response Body containing the type 'https:// uri.etsi.org/ngsi-ld/errors/ BadRequestData' and Response Body Title is a string and is not \${EMPTY} and Response Body Detail is a string and is not \${EMPTY}	SUT -> Client	

and Response Boty Title is not equal to Response Body Detail				
TD/NCSLLD/CTY/Conc/053_03_03				
100101010	Direction			
l '	SUT <- Client			
0.12 001 10 7				
ngsi-ld/v1/jsonldContexts/{contextId}'				
method set to 'GET'				
Serve a @context with contextID 'https://				
uri.etsi.org/ngsi-ld/v1/ngsi-ld-core-context-				
}				
then {	SUT -> Client			
the SUT sends a valid Response for the operations:				
422 and				
Serve a @context with Response reason set to 'Unprocessable				
}				
	TP/NGSI-LD/CTX/Cons/053_03_03 053_03_03 Serve a Cached @contexts with details set to false v1.5.1 Check that an error is returned when one requests for a @context that does n Test events when { the SUT receives a Request from the client containing: URL set to '/ ngsi-ld/v1/jsonldContexts/{contextId}' method set to 'GET' Serve a @context with contextID 'https:// uri.etsi.org/ngsi-ld/v1/ngsi-ld-core-context- v1.6.jsonld' and details 'false' } then { the SUT sends a valid Response for the operations: Serve a @context with Response Status Code set to 422 and Serve a @context with Response reason set to 'Unprocessable			

TP Id	TP/NGSI-LD/CTX/Cons/053_01	
Test objective	Check that one can serve a previous created @context	
Reference	ETSI GS CIM 009 V1.5.1 [1], clause 5.13.4	
Config Id	CF_01	
PICS Selection	PICS_SerOneSpeUse@co	
Initial conditions	with { the SUT containing a Hosted @context and the default Cached Core C	ontext. }
4 4 4 4 4 7 4	Permutations	. 040 04
TP Permutation id	TP/NGSI-LD/CTX/Cons/053_01_01	1m-013-v2-1-
Name	053_01_01 Serve a @context without details	
Parent Release	v1.5.1	
Description	Check that one can serve a @context with details equal to empty or false	
Expected behaviour	Test events	Direction
	when { the SUT receives a Request from the client containing: URL set to '/ ngsi-ld/v1/jsonldContexts/{contextId}' method set to 'GET' Serve a @context with contextID '\$ {uri}' and details '\${EMPTY}' } then {	SUT -> Client
	the SUT sends a valid Response for the operations: Serve a @context with Response Status Code set to and Serve a @context with Response reason set to 'OK' and Serve a @context with Response Header: Content- Type set to application/ json and Serve a @context with Check the Body of the response should contain the @context `@context- minimal-valid.json' }	SOT > GIRCHI
TP Permutation id	TP/NGSI-LD/CTX/Cons/053_01_02	1
Name	053_01_02 Serve a @context with details equal to false	
Parent Release	v1.5.1	

2024.0

Description	Check that one can serve a @context with details equal to empty or false			
Expected behaviour	Test events	Direction		
	when {	SUT <- Client		
	the SUT receives a Request from the client containing:			
	URL set to '/			
	ngsi-ld/v1/jsonldContexts/{contextId}'			
	method set to 'GET'			
	Serve a @context with contextID '\$			
	{uri}' and details 'false'			
	}			
	then {	SUT -> Client		
	the SUT sends a valid Response for the operations:			
	Serve a @context with Response Status Code set to			
	200 and			
	Serve a @context with Response reason set to 'OK' and			
	Serve a @context with Response Header: Content-			
	Type set to application/			
	json and			
	Serve a @context with Check the Body of the response should contain			
	the @context \@context-			
	minimal-valid.json'			
	}			

,	TP Id	TP/NGSI-LD/CTX/Cons/053_08					
·	Test objective	Check that the numberOfHits is increased after using a ImplicitlyCreated conte	ext				
·	Reference	ETSI GS CIM 009 V1.5.1 [1], clause 5.13.4					
	Config Id	CF_01					
	PICS Selection	PICS_SerOneSpeUse@co					
	Initial conditions	with { the SUT containing a ImplicitlyCreated @context created from a subscription	otion query. }				
	Permutations						
	TP Permutation id	TP/NGSI-LD/CTX/Cons/053_08_01					
	Name	053_08_01 Check that the numberOfHits is increased after using a ImplicitlyC	reated context				
	Parent Release	v1.5.1					
	Description	Check that the numberOfHits is increased after using a ImplicitlyCreated context					
	Expected behaviour	Test events	Direction				
https://star		when { the SUT receives a Request from the client containing: URL set to '/ ngsi-ld/v1/jsonldContexts/{contextId}'					
		then { the SUT sends a valid Response for the operations: Serve a @context with Response Status Code set to 200 and Serve a @context with Check that the numberOfHits in the response body is set to '2' }	SUT -> Client				

4.1.1.2 ListContexts

TP ld	TP/NGSI-LD/CTX/Cons/052_06
Test objective	Check that one can list all the @context available in the broker with no previous add
	@ context
Reference	ETSI GS CIM 009 V1.5.1 [1], clause 5.13.3
Config Id	CF_01
PICS Selection	PICS_LisAllCac@co
Initial conditions	with { the SUT containing a ImplicitlyCreated @context created from a subscription query. }
	Permutations
TP Permutation id	TP/NGSI-LD/CTX/Cons/052_06_01
Name	052_06_01 List @contexts with neither details or kind and a created ImplicitlyCreated
	@context

Parent Release Description	v1.5.1 Check that one can list @contexts		
Expected behaviour	Test events	Direction	
Expected behaviour	when { the SUT receives a Request from the client containing: URL set to '/ngsi-ld/v1/jsonldContexts?\${params_as_string}' method set to 'GET' List @contexts: and Query Parameter: details set to '\${EMPTY}' and	SUT <- Client	
TP Permutation id Name	Query Parameter: kind set to '\${EMPTY}' } then { the SUT sends a valid Response for the operations: List @contexts with Response Status Code set to 200 and List @contexts with Response reason set to 'OK' and List @contexts with Check Context Response Body Containing a list of identifiers and Query Parameter: response_body set to 'response.json()' and Query Parameter: expected_length set to '4' and Query Parameter: list_contexts set to 'list_contexts' } TP/NGSI-LD/CTX/Cons/052_06_02 052_06_02 List @contexts with no details and kind set to hosted and a create ImplicitlyCreated @context	SUT -> Client	
Parent Release	v1.5.1		
Description	Check that one can list @contexts		
Expected behaviour	Test events	Direction	
	when { the SUT receives a Request from the client containing: URL set to '/ngsi-ld/v1/jsonldContexts?\${params_as_string}' method set to 'GET' List @contexts: and Query Parameter: details set to '\${EMPTY}' and Query Parameter: kind set to 'Hosted' }	SUT <- Client	
	then { the SUT sends a valid Response for the operations: List @contexts with Response Status Code set to 200 and etsible redef 6450-4052-9676-d9463 fc3bce0/etsi-gs-c List @contexts with Response reason set to 'OK' and List @contexts with Check Context Response Body Containing a list of identifiers and	SUT -> Client im-013-v2-1-	
TP Permutation id	TP/NGSI-LD/CTX/Cons/052_06_03	•	
Name Parent Release	052_06_03 List @contexts with no details and kind set to cached and a create ImplicitlyCreated @context v1.5.1	ated	
Description	Check that one can list @contexts		
Expected behaviour	Test events	Direction	
	when { the SUT receives a Request from the client containing: URL set to '/ngsi-ld/v1/jsonldContexts?\${params_as_string}' method set to 'GET' List @contexts: and Query Parameter: details set to '\${EMPTY}' and Query Parameter: kind set to 'Cached' }	SUT <- Client	
	then { the SUT sends a valid Response for the operations: List @contexts with Response Status Code set to 200 and List @contexts with Response reason set to 'OK' and List @contexts with Check Context Response Body Containing a list of identifiers and	SUT -> Client	