NGSI Identity Control

Candidate Version 1.0 – 03 Aug 2010

Open Mobile Alliance

OMA-TS-NGSI_Identity_Control-V1_0-20100803-C

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None.

1. Scope

This document is the Technical Specification for Identity Control. According to the NGSI AD [NGSI-AD], the Identity Control component exposes the interfaces NGSI-13 and NGSI-14.

NGSI v1.0 defines abstract interfaces. This technical specification builds the basis for the definition of binding technologies based on the abstract interface definitions given in the TS.

The TS is not basis for testing without a respective binding.

2. References

2.1 Normative References

[NGSI-AD] "NGSI Architecture", Open Mobile Alliance™, OMA-AD-NGSI-V1_0, URL:http://www.openmobilealliance.org/

[NGSI-RD] "NGSI Requirements", Open Mobile Alliance™, OMA-RD-NGSI-V1_0, URL:http://www.openmobilealliance.org/

[RFC2119] "Key words for use in RFCs to Indicate Requirement Levels", S. Bradner, March 1997, URL:http://www.ietf.org/rfc/rfc2119.txt

[RFC4234] "Augmented BNF for Syntax Specifications: ABNF". D. Crocker, Ed., P. Overell. October 2005, URL:http://www.ietf.org/rfc/rfc4234.txt

[SCRRULES] "SCR Rules and Procedures", Open Mobile Alliance™, OMA-ORG-SCR_Rules_and_Procedures, URL:http://www.openmobilealliance.org/

2.2 Informative References

[OMADICT] "Dictionary for OMA Specifications", Version 2.7, Open Mobile Alliance™, OMA-ORG-Dictionary-V2.7, URL:http://www.openmobilealliance.org/

3. Terminology and Conventions

3.1 Conventions

The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described in [RFC2119].

All sections and appendixes, except “Scope” and “Introduction”, are normative, unless they are explicitly indicated to be informative.

3.2 Definitions

The definitions of the OMA Dictionary [OMADICT] are valid for this document unless otherwise stated below.

Identifier	see [NGSI-RD]
Identity Federation	see “Federation” in [OMADICT]

3.3 Abbreviations

NGSI	Next Generation Service Interfaces
OMA	Open Mobile Alliance

4. Introduction

The Identity Control APIs provides interfaces in order to support functionalities for

- management of the Identity including Identifiers, and
- control of the Federation of the Identity.

This TS specification is part of the TS specifications for the NGSI Enabler,

4.1 Version 1.0

The NGSI TS Identity Control document specifies the NGSI-13 and NGSI-14 Interface with the following functions:

- Resolve Identifiers
- Register, revoke, delete Identifiers used for the Federation

5. Technical Details

5.1 Identity Control Interfaces

5.1.1 Service Description

In order to protect the privacy of the user, different identifiers could be exposed to other applications and/or users, which should be controlled by the preferences of the user.

Identity Control Interfaces provide functionalities for Identity resolution and management, in order to allow the use and configuration of Identifiers of an Identity.

TheNGSI-13 IdentityResolution Interface is used by an application which knows an Identifier of a given Identity to get another Identifier (e.g., Pseudonym) for that Identity, for the purpose of exposing the resolved Identifier to a certain usage, e.g., using this Identifier to communicate with a specific entity. The Identifier will be provided according to the policy and may be different among the different application, or may be null, depending on the application which is using the interface, to avoid any undesired disclosure of the information

The NGSI-14 IdentityManagement interface is used by an application to manage the Identifiers of an Identity with its default policy of its usage. An example of those applications may be the one which provides the user with the management of his/her Identity.

The Identity Control Interfaces allow the configuration of the usage of the Identifier, by specifying to whom it should be exposed. With the combination of with other NGSI Interfaces such as call control, it allows the call setup between users under different certain identifiers, which can be invalidated at any time.

5.1.2 Sequence Diagrams

5.1.2.1 Pseudonym communication

An example scenario of the combined usage of Identity Control interfaces together other NGSI-4 and NGSI-6 Interfaces is described in the sequence diagrams below. Balloons in the diagrams are the process which should be performed behind, but how those processes are performed to share the policy, how the Identifier should be resolved by the underlying services is out of scope of NGSI-13, 14, NGSI-4 and NGSI-6.

5.1.2.1.1 Starting Pseudonym communication

Figure 1 describes how the Identifiers can be created and used for services.

To connect two users, User A and User B under pseudonyms, the application can create an additional Identifier as Pseudonym of a user, e.g. User A', which is known as User A to the application. Additionally, the application specifies User B as a target user/application, to which this new Pseudonym to be exposed. The application also creates a Pseudonym of User B, e.g. User B', targeting the User A as its exposure.

After retrieving two Identifiers User A' and User B', the application can invoke Call Control Service to connect two users under these names. Application does not need to keep this pair, as created Identifiers can be retrieved via Identity Control Interfaces.

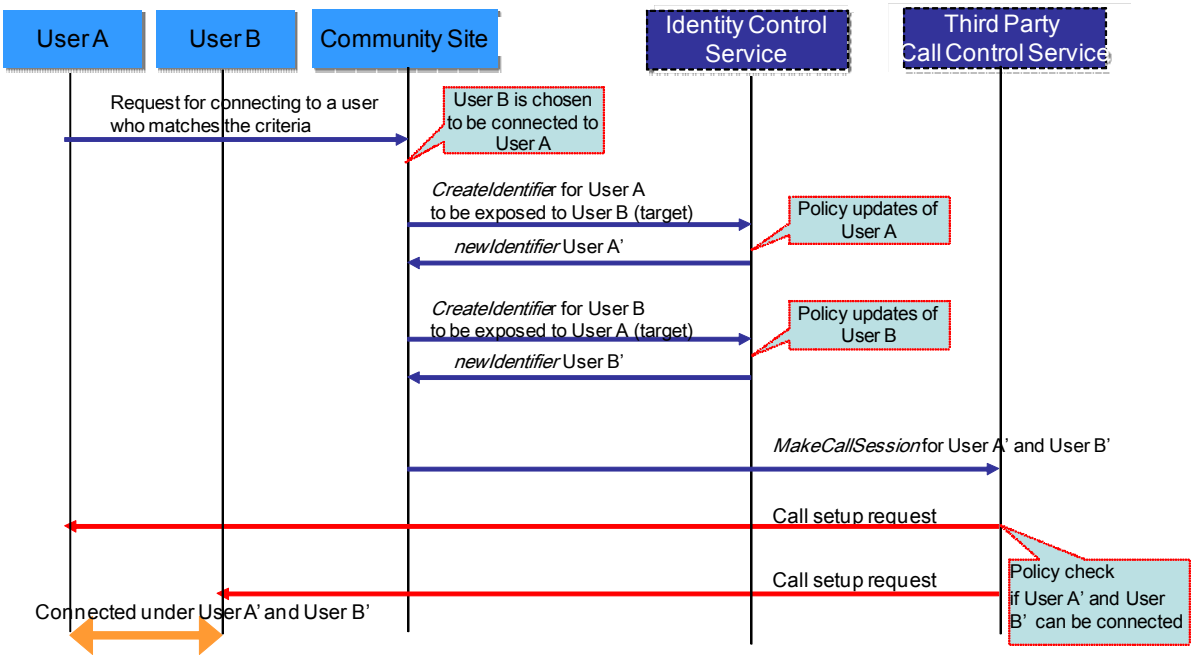

Figure 1: Starting pseudonym communication

5.1.2.1.2 Changing policy and stopping Pseudonym communication

Figure 2 describes how the usage of Identifiers can be changed or deleted. The pre-condition of this sequence is the sequence performed in Section 5.1.2.1.1.

A user can set the policy for the usage of created Identifiers or completely stop the use of the Identifiers. The policy can be changed either by the operations ofIndentity Control Interface, or for a Call specific policy, *setRules* and *setCommunicationServicePolicy* operation of NGSI-6. This example shows the case of the use of NGSI-6 Interface for policy setting.

In the example shown in Figure 2, User B first sets the policy to control when this Pseudonym can be used as a valid Identifier. User B then decides to stop the usage of this Pseudonym at all.

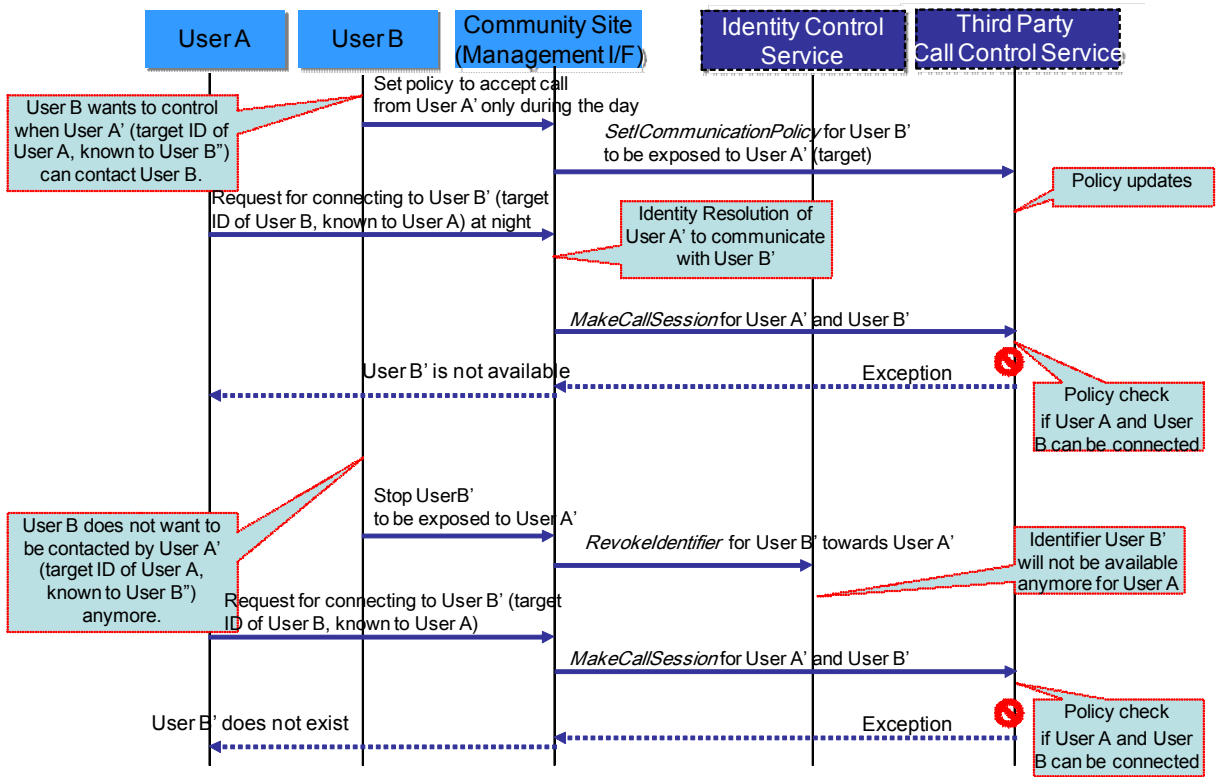

Figure 2: Changing policy and revoking pseudonym

5.1.3 Data Type Definition

Identity Control interfaces use the data type definition as defined in [3GPP 29.199-1]. In addition, the following data type is defined:

- *IdentifierType*enumeration

5.1.3.1 IdentifierType enumeration

This is a list of Identifier type that is used as a value for IdentifierType element of the operations.

Enumeration	Description	New Parameters
SipURI	SIP URI according to [RFC3261]	NGSI-13, NGSI-14, NGSI-6
TelURI	TEL URI according to [RFC3966]	NGSI-13, NGSI-14, NGSI-6
Email	e-mail according to [RFC5322]	NGSI 13, NGSI-14
URI	URI according to [RFC3986]	NGSI 13, NGSI-14

5.1.4 NGSI13: Identity Resolution Interface

NGSI-13 Interface is to retrieve another Identifier from a known Identifier of a given Identity.

5.1.4.1 Interface: IdentityResolution

IdentityResolution Interface specifies the interface to get the Identifier of an Identity to be exposed towards a specified target.

5.1.4.1.1 Operation: ResolveIdentifier

The invocation of *ResolveIdentifier* requests to resolve the given Identifier of an Identity into another Identifier. The *TargetIdentifier* parameter indicates the target to which the new Identifier of the Identity will be exposed.

An *Identifier Unknown* Policy Exception is thrown, when there is no entry for the existing Identifier as specified in *KnownIdentifier* paramenter.
A No *Identifier Resolved* Policy Exception is thrown, when no Identifier can be returned, for example, due to the policy set for that Identity.

5.1.4.1.1.1. Input message: ResolveIdentitfierRequest

Part name	Part type	Optional	Description	New Parameters
KnownIdentifier	xsd:anyURI	No	The identifier known to the application which should be resolved to another one of the same Identity.	NGSI-13, 14
TargetIdentifier	xsd:anyURI	No	An Identifier of the target towards the known Identifier should be resolved with another one.	NGSI-13, 14

5.1.4.1.1.2. Output message : ResolveIdentifierResponse

Part name	Part type	Optional	Description	New Parameters
ResolvedIdentifier	xsd:anyURI	No	The identifier which should be used towards the target according to the Preferences of the related Identity.	NGSI-13, 14

5.1.4.1.1.3. Referenced faults

ServiceException from [3GPP TS 29.199-1] and Section 5.1.4 of this document:

- SVC0001 - Service error.
- SVC0002 - Invalid input value.
- SVC0424: Identifier Unknown
- SVC0423 – Wrong Identifier Format

PolicyException from [3GPP TS 29.199-1]:

- POL0001 - Policy error.
- POL0401 – No Identifier Resolved

5.1.5 NGSI14: Identity Management Interface

NGSI-14 Identity Mangement Interface is to create, register, revoke and delete an Identifier of a given Identity.

5.1.5.2 Interface: IdentityManagement

IdentityManagement Interface specifies the interface to manage Identifiers of an Identity.

5.1.5.2.1 Operation: CreateIdentifier

The invocation of *CreateIdentifier* requests to create a new Identifier which may be considered as Pseudonym for an Identity with a given target or preference of usage.
The *CurrentIdentifier* is one of the existing Identifier of an Identity, which is known to both the network and the application on behalf of user, such as an identifier used for single sign on.

The optional *TargetIdentifier* parameter indicates the target, to which the new Identifier of the Identity is to be exposed.

The optional *NewIdentifier* provides an existing Pseudonym of the Identity which should be used towards the specific target Identifier, potentially with further Policies on the usage. If not present, a newly created Identifier will be returned. If this parameter is present, the Identifier received in the output SHALL be identical to the value given by this parameter.

The optional *Policy* parameter indicates the policy describing the detail of the usage of Identifiers. If this parameter is not present, a new Identifier will be created without any association to a Policy, unless it is set in advance.

The optional *IdentifierType* parameter indicates the type of Identifiers as defined in Section 5.1.3.1. If not given, the type is derived from the *TargetIdentifier*.

The optional *TargetIdentifier* can be specified with other optional parameters. In case *TargetIdentifier* is not present, both *Policy* and *IdentifierType* parameters SHALL be present.

An “SVC0420 - No Identifier Format Detected” Service Exception is thrown, when the *IdentifierType* is not given and cannot be derived.

An “SVC0421 – Identifier already assigned” Exception is thrown if there exists already an identifier for the given combination of Target specified by *TargetIdentifier* parameter and the Policy specified by the *Policy* parameter, including the case that *Policy* is not present.

An “SVC0002 - Invalid input value” Exception is thrown, if the presented Identifier of parameter “NewIdentifier” is not known previously.

5.1.5.2.1.1. Input message CreateIdentifier Request

Part name	Part type	Optional	Description	New Parameters
CurrentIdentifier	xsd:anyURI	No	The currently existing identifier known to the application and network for which a new pseudonym should created and registered to the same Identity. The format of this parameter is according to those listed in section 5.1.3.1.	NGSI-13, 14
NewIdentifier	xsd:anyURI	Yes	An existing pseudonym which should also be used towards the target, too. The format of this parameter is according to those listed in section 5.1.3.1.	NGSI-13, 14
TargetIdentifier	xsd: anyURI	Yes	An Identifier of the target, to which the new Identifier is to be exposed. If not present an input to parameter "policy" SHALL be present specifying the scope of the new identifier. The format of this parameter is according to those listed in section 5.1.3.1.	NGSI-13, 14
Policy	xsd:any	Yes	Policy for the usage of identifiers comprehending XML (for example: based on Common Policy [OMA-SUP-XSD] or [XACML] schema). In case that *TargetIdentifier* is not present, Policy parameter SHALL be present.	NGSI-13, 14
IdentifierType	IdentifierType	Yes	Indicating the format of the new identifier.	NGSI-13, 14

5.1.5.2.1.2. Output message : CreateIdentifierResponse

Part name	Part type	Optional	Description	New Parameters
NewIdentifier	xsd: anyURI	No	The newly created or assigned identifier which should be used towards the target according to the Preferences of the related Identity. The format of this parameter is according to those listed in section 5.1.3.1	NGSI-13, 14

5.1.5.2.1.3. Referenced faults

ServiceException from [3GPP TS 29.199-1]:

- SVC0001 - Service error.
- SVC0002 - Invalid input value.
- SVC0421 – Identifier already assigned
- SVC0420 - No Identifier Format Detected

PolicyException from [3GPP TS 29.199-1]:

- POL0001 - Policy error.
- POL0400– Too many potential identifiers

5.1.5.2.2 Operation: SetIdentifierPolicy

The invocation of *SetIdentifierPolicy* requests to update the Policy on the usage of a given identifier and returns a unique PolicyID to identify the Policy to be set. The policy for the given combination of the specified Identifier and target will be replaced, if it exists.
KnownIdentifier can be any Identifier of an Identity, which is known to the application as well as the network. *KnownIdentifier* can be *CurrentIdentifier* or *NewIdentifier* of the *CreateIdentifier* operation. In case the Identifier specified by *KnownIdentifier* parameter was created for the combination with a particular target, this target SHALL be given as a *TargetIdentifier* parameter. If no particular target was given when the Identifier was created, the *TargetIdentifier* parameter SHALL be empty. The wrong combination of parameter causes the "SVC0002 Invalid input value" Exception.

5.1.5.2.2.1. Input message: SetIdentifierPolicyRequest

Part name	Part type	Optional	Description	New Parameters
KnownIdentifier	xsd:anyURI	No	The existing identifier which is used towards the target or in general.	NGSI-13, 14
TargetIdentifer	xsd:anyURI	Yes	An Identifier of the participant towards which the KnownIdentifier is used	NGSI-13, 14
Policy	xsd:any	No	Policy for Identifier usage comprehending XML (for example: based on Common Policy [OMA-SUP-XSD] or [XACML] schema).	NGSI-13, 14

5.1.5.2.2.2. Output message: SetIdentifierPolicyResponse

Part name	Part type	Optional	Description	New Parameters
PolicyID	xsd:string	Yes	Identifier of the Policy which has just been set.	NGSI-13, 14

5.1.5.2.2.3. Referenced faults

ServiceException from [3GPP TS 29.199-1] and Section 5.4.1 of this document:

- SVC0001 - Service error.
- SVC0002 - Invalid input value.
- SVC0420 – No Identifier Format Detected

PolicyException from [3GPP TS 29.199-1]:

- POL0001 - Policy error.

5.1.5.2.3 Operation: GetIdentifierPolicyByPolicyId

The invocation of *GetIdentifierPolicyByPolicyId* requests to get the Policy identified as specified by the *PolicyID* parameter. The return value of *SetIdentifierPolicy* should be used for the *PolicyID* parameter.

5.1.5.2.3.1. Input message: GetIdentifierPolicyByPolicyIdRequest

Part name	Part type	Optional	Description	New Parameter
PolicyID	xsd:string	No	It identifies a specific IdentifierPolicy.	NGSI-13, 14

5.1.5.2.3.2. Output message: GetIdentifierPolicyByPolicyIdResponse

Part name	Part type	Optional	Description	New Parameters
IdentifierPolicy	xsd:any	No	Policy related to the given identifier.	NGSI-13, 14

5.1.5.2.3.3. Referenced faults

ServiceException from [3GPP TS 29.199-1]:

- SVC0001: Service error.
- SVC0002: Invalid input value.

PolicyException from [3GPP TS 29.199-1]:

- POL0001: Policy error.

5.1.5.2.4 Operation: GetIdentifierPolicyByTargetID

The invocation of *GetIdentifierPolicyByTargetID* requests to get the Policy identified as specified by the *TargetIdentifer* parameter.

5.1.5.2.4.1. Input message: GetIdentifierPolicyByTargetIDRequest

Part name	Part type	Optional	Description	New Parameter
KnownIdentifier	xsd:anyURI	No	The existing identifier which is to be used towards the target or in general.	NGSI-13, 14
TargetIdentifier	xsd:anyURI	No	Address of target participant to apply policy for.	NGSI-13, 14

5.1.5.2.4.2. Output message: GetIdentifierPolicyByTargetIDResponse

Part name	Part type	Optional	Description	New Parameter
IdentifierPolicy	xsd:any	No	Provides the Policy related to the KnownIdentifier.	NGSI-13, 14
PolicyID	xsd:string	No	The identifier associated with the IdentifierPolicy.	NGSI-13, 14

5.1.5.2.4.3. Referenced faults

ServiceException from [3GPP TS 29.199-1]:

- SVC0001: Service error.
- SVC0002: Invalid input value.

PolicyException from [3GPP TS 29.199-1]:

- POL0001: Policy error.

5.1.5.2.5 Operation: ClearIdentifierPolicy

The invocation of *ClearIdentifierPolicy* requests to clear the Policy associated with the Identifier specified in the *KnownIdentifier* parameter. The response will include the status message indicating the result of the operation..

While both parameters are optional, at least one of the parameters, *TargetIdentifiers* or *PolicyID* SHALL be present, otherwise Service error Exception will be thrown.

In the case that both the *TargetIdentifiers* and *PolicyId* parameters are present, the *PolicyId* SHALL correspond to a Policy associated with the *TargetIdentifiers*. Other Policies associated with the *TargetIdentifiers* are not affected. Otherwise, the *ClearIdentifierPolicyRequest* is ignored.

5.1.5.2.5.1. Input message: ClearIdentifierPolicyRequest

Part name	Part type	Optional	Description	New Parameters
KnownIdentifier	xsd:anyURI	No	The existing identifier which is to be used towards the target or in general.	NGSI-13, 14
TargetIdentifiers	xsd:anyURI [0..unbounded]	Yes	Identifiers of the target with the Policy which should be cleared. The Identifier may be Pseudonym or Group Identifier [3GPP TS 29.199-13], URI.	NGSI-13, 14
PolicyID	xsd:string	Yes	Identifiers to clear identifier policies. If the parameter *TargetIdentifiers* is not specified, the policy is removed for all targets.	NGSI-13, 14

5.1.5.2.5.2. Output message: ClearIdentifierPolicyResponse

Part name	Part type	Optional	Description	New Parameters
StatusMessage	xsd:string	No	Text describing the result of clear operation	NGSI-13, 14

5.1.5.2.5.3. Referenced faults

ServiceException from [3GPP TS 29.199-1]:

- SVC0001: Service error.
- SVC0002: Invalid input value.

PolicyException from [3GPP TS 29.199-1] and Section7 of this document:

- POL0001: Policy error.
- POL0003 – Too many addresses
- POL0244 – Too many PolicyIDs

5.1.5.2.6 Operation: GetTargetsOfIdentifier

The invocation of GetTargetsOfIdentifier requests to provide a list of targets with which the given Identifier has Policy associated.

5.1.5.2.6.1. Input message: GetTargetsOfIdentifier Request

Part name	Part type	Optional	Description	New Parameters
KnownIdentifier	xsd:anyURI	No	The known identifier whose assigned targets should be given	NGSI-13, 14

5.1.5.2.6.2. Output message: GetTargetsOfIdentifier Response

Part name	Part type	Optional	Description	New Parameters
TargetIdentifiers	xsd:anyURI[0..unbounded]	Yes	Identifiers of the targets being requested	NGSI-13, 14

5.1.5.2.6.3. Referenced faults

ServiceException from [3GPP TS 29.199-1] and Section 5.1.4 of this document:

- SVC0001 - Service error.
- SVC0002 - Invalid input value.
- SVC0420 – No Identifier Format Detected

PolicyException from [3GPP TS 29.199-1]:

- POL0001 - Policy error.

5.1.5.2.7 Operation: RevokeIdentifier

The invocation of *RevokeIdentifier* requests to revoke an Identifier for further usage with the association with the target given by *TargetIdentifier* parameter. If no target is given, all registered targets with this Identifier are revoked. The invocation of this operation should not delete the Identifier itself, as the same Identifier may be used by other targets. To delete the Identifier completely, *DeleteIdentifier* SHALL be invoked.

5.1.5.2.7.1. Input message: RevokeIdentifier Response

Part name	Part type	Optional	Description	New Parameters
KnownIdentifier	xsd:anyURI	No	The existing identifier which is to be revoked for further usage towards the target or in general.	NGSI-13, 14
TargetIdentifier	xsd:anyURI	Yes	An Identifier of the target, to which the known Identifier is to be exposed. In case the identifier has been created for a particular target, or registered to one, this parameter SHALL be present.	NGSI-13, 14

5.1.5.2.7.2. Output message: RevokeIdentifier Response

This operation has no specific output, except of potential faults.

Part name	Part type	Optional	Description	New Parameters
StatusMessage	xsd:string	No	Text describing the result of revoke operation	NGSI-13, 14

5.1.5.2.7.3. Referenced faults

ServiceException from [3GPP TS 29.199-1] and Section 5.1.4 of this document:

- SVC0001 - Service error.
- SVC0002 - Invalid input value.
- SVC00420 - No Identifier Format Detected

PolicyException from [3GPP TS 29.199-1]:

- POL0001 - Policy error.

5.1.5.2.8 Operation: DeleteIdentifier

The invocation of *DeleteIdentifier* requests to delete an Identifier which is no longer related to any targets. Before deletion, the Identifier SHALL be revoked for all association with targets. If not all the association with targets of the specified Identifier have been revoked yet, the Exception *SVC0422: Identifier still in use* is thrown.

5.1.5.2.8.1. Input message: DeleteIdentifier Request

Part name	Part type	Optional	Description	New Parameters
KnownIdentifier	xsd:anyURI	No	The existing identifier which is be deleted for further usage towards all targets and for general usage.	NGSI-13, 14

5.1.5.2.8.2. Output message : DeleteIdentifier Response

This operation has no specific output, except of potential faults.

Part name	Part type	Optional	Description	New Parameters
StatusMessage	xsd:string	No	Text describing the result of delete operation	NGSI-13, 14

5.1.5.2.8.3. Referenced faults

ServiceException from [3GPP TS 29.199-1]:

- SVC0001 - Service error.
- SVC0002 - Invalid input value.
- SVC0420 – No Identifier Format Detected
- SVC0422 – Identifier still in use

PolicyException from [3GPP TS 29.199-1]:

- POL0001 - Policy error.

5.1.6 Fault definitions

NGSI-13 and NGSI-14 interface defines an additional ServiceException and PolicyException to [3GPP TS29.199-10] and [3GPP TS29.199-1].

5.1.6.1 ServiceException

5.1.6.1.1 SVC0420: No Identifier Format Detected

Name	Description	New Parameters
Message Id	SVC0420	NGSI-13, 14
Text	The format of an Identifier could not be uniquely deremined based on the input in message part %1	NGSI-13, 14
Variables	%1 - message part	NGSI-13, 14

5.1.6.1.2 SVC0421: Identifier already assigned

Name	Description	New Parameters
Message Id	SVC0421	NGSI-13, 14
Text	An Identifier is already assigned for the particular target given in message part %1	NGSI-13, 14
Variables	%1 - message part	NGSI-13, 14

5.1.6.1.3 SVC0422: Identifier still in Use

Name	Description	New Parameters
Message Id	SVC0422	NGSI-13, 14
Text	The Identifier is not revoked completely.	NGSI-13, 14

5.1.6.1.4 SV0423: Wrong Identifier Format

Name	Description	New Parameters
Message Id	SV0423	NGSI-13, 14
Text	Wrong Identifier format is specified in message part %1	NGSI-13, 14
Variables	%1 - message part	NGSI-13, 14

5.1.6.1.5 SV0424: Identifier Unknown

Name	Description	New Parameters
Message Id	SV0424	NGSI-13, 14
Text	The given Identifier is not known	NGSI-13, 14
Variables	%1 - message part	NGSI-13, 14

5.1.6.2 PolicyException

5.1.6.2.1 POL0400: Too many potential identifiers

Name	Description	New Parameters
Message Id	POL0400	NGSI-13, 14
Text	Too many potential identifiers are found	NGSI-13, 14

5.1.6.2.2 POL0401: No Identifier Resolved

Name	Description	New Parameters
Message Id	POL0401	NGSI-13, 14
Text	Unable to resolve the Identifier	NGSI-13, 14

Appendix A. Change History (Informative)

A.1 Approved Version History

Reference	Date	Description
n/a	n/a	No prior version –or- No previous version within OMA

A.2 Draft/Candidate Version 1.0 History

Document Identifier	Date	Sections	Description
Draft Versions: OMA-TS-NGSI_Identity Control_V1_0	13 Oct 2009	none	Creation of baseline document.
	23 Oct 2009	1,2,3,4	Incorporated OMA-ARC-NGSI-2009-0059R01-CR_CR_TS_IDM_section_1_to_4
		5	Incorporated OMA-ARC-NGSI-2009-0079R01- CR_TS_IDC_NGSI_10_IdentityResolution
	25 Nov 2009	5	Incorporated OMA-ARC-NGSI-2009-0080R03- CR_TS_IDC_NGSI_10_IdentityManagement Updates to the Exception numbering according to the agreement at CC on 10 Nov 2009 (OMA-ARC-NGSI-2009-0093-MINUTES_10Nov2009_CC).
	25 May 2010	overall	Incorporated OMA-ARC-NGSI-2010-0100R02-CR_TS_IDC_IF_renumbering
	07 Jun 2010	1, Appendix B	Incorporated: OMA-ARC-NGSI-2010-0135-CR_TS_ALL_Removal_of_SCR_tables
		overall	Editorial clean-up
	30 Jul 2010	5	Incorporated: OMA-ARC-NGSI-2010-0143- CR_NGSI_SS_Identity_Control_Cleanup
Candidate Version: OMA-TS-NGSI_Identity Control_V1_0	03 Aug 2010	All	Editorial fixes: 2010 template, styles, references sorted, History table Status changed to Candidate by TP: OMA-TP-2010-0324- INP_NGSI_V1_0_ERP_for_Candidate_Approval

Appendix B. Static Conformance Requirements (Normative)

As NGSI v1.0 specifies the level of abstract interfaces, no testing of those is applicable. Therefore, the Static Conformance Requirements (SCR) tables are not defined. Those are subject for definitions in the related technical specification defining the bindings.

The notation used in this appendix is specified in [SCRRULES].

B.1 SCR for NGSI Call Control and Configuration Client

None.

B.2 SCR for NGSI Call Control and Configuration Server

None.