NGSI Common Definitions

Candidate Version 1.0 – 03 Aug 2010

Open Mobile Alliance

OMA-TS-NGSI_Common-V1_0-20100803-C

Contents

1. Scope

This document provides common definitions for the NGSI V 1.0 enabler. It extends the Parlay X Common specification [3GPP TS 29.199-1].

2. References

2.1 Normative References

[3GPP TS 29.199-1] "Open Service Access (OSA) Parlay X web services; Part 1: Common", Release 8, URL:http://www.3gpp.org/

[OMA PAL] "Presence Access Layer Specification", Open Mobile Alliance™, OMA-TS-PAL-V1_0, URL:http://www.openmobilealliance.org/

[OMA Presence] "Presence SIMPLE Specification", Version 2.0, Open Mobile Alliance™, OMA-TS-Presence_SIMPLE-V2_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/

[XML_Names] "Namespaces in XML(Third Edition)", W3C Recommendation, 8 December 2009, URL: http://www.w3.org/TR/xml-names/

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. Additionally the definitions given in [3GPP TS.199-1] apply.

3.3 Abbreviations

NGSI	Next Generation Service Interfaces
OMA	Open Mobile Alliance
OSA	Open Service Access
URI	Uniform Resource Identifier
URL	Uniform Resource Locator

4. Introduction

To ensure consistency for developers using the NGSI enabler, this "Common" technical specification aims to contain all items that are common across multiple specification of the NGSI Enabler.

4.1 Version 1.0

This version of the NGSI Common Technical Specification contains common fault definitions, as well as shared data types for NGSI V1_0.

5. Common Data Type Definitions

The following data type definitions are used by multiple NGSI interfaces, and are therefore included in the set of Common data type definitions, in addition to those defined in [3GPP 29.199-1]. The data types are referenced under the same namespace as in [3GPP 29.199-1], and the prefix "common" is used to reference these data types.

5.1 Call Forwarding

5.1.1 CallForwardType enumeration

This is a list of call forward types.

Enumeration	Description
Simultaneous	Forwarding a call to participants simultaneously
Chained	Forwarding a call to participants in chained order (i.e. one after another)

5.1.2 CallForward structure

This is a structure to indicate simultaneous forwarding or chained forwarding order.

Part name	Part type	Optional	Description
ForwardingType	CallForwardType	No	Type of call forwarding specified by *CallForwardType* enumeration
ParticipantsAddress	xsd:anyURI[2..unbounded]	No	Addresses of participants to be forwarded a call

5.2 Recording

5.2.1 RecordingOperation enumeration

This enumeration defines recording operations.

Enumeration	Description
StartRecording	Start the recording
StopRecording	Stop the recording

5.2.2 RecordedMediaMetadata structure

This contains the metadata associated with a recorded call or conference.

Part name	Part type	Optional	Description
StartTime	xsd:dateTime	No	The start time of the recording of the associated media item.
EndTime	xsd:dateTime	No	The end time of the recording of the associated media item.
ContentIdentifier	ContentIdentifier [3GPP TS 29.199-21]	No	Identifies the recorded content.

5.2.3 RecordingStatus enumeration

This models recording session states.

Enumeration	Description
RecordingActive	The recording session is active; media are recorded.
RecordingInactive	The recording session is inactive; no media are recorded.

5.3 Presence

5.3.1 PresenceDataFormat enumeration

This enumeration shows the presence data format that may be requested.

Enumeration	Description
ParlayX	Presence Data Format defined by [3GPP 29.199-19]
PIDF	PIDF as defined by [OMA Presence].
PAL	PAL defined by [OMA PAL].

5.3.2 PresenceDataSchema structure

This structure shows a pair of a namespace and the prefix to be used to identify that namespace.

Note: Those elements of PresenceDataSchema will be mapped into an XML namespace declaration as defined by [XML_Names] at the time of binding.

Part name	Part type	Optional	Description
NameSpace	xsd:anyURI	No	Indicates the schema of presence data
Prefix	xsd:string	No	Indicates a prefix string to be used to indicate the namespace to which a given element belongs.

5.3.3 PresenceData structure

The *PresenceData* structure provides the information for handling of forwarding based on the presence status of called party.

In case Parlay_X format is chosen, *PresenceAttributeName* corresponds to *AttributeType*, and *PresenceValue* corresponds to its expected value.

In case PIDF is chosen, *PresenceAttributeName* must be specified by XPath to indicate the element of interest, and *AttributeValue* corresponds to its expected value. In case that the extensions to PIDF as defined by [OMA Presence] needs to be considered, the optional parameter *PresenceSchema* must be presented. This parameter indicates a list of the relevant namespaces of those extensions together with prefix information, which will be used for the qualified name of the element.

In case PAL is chosen, *PresenceAttributeName* corresponds to *PresenceAspects* as defined by [OMA PAL], and *PresenceValue* corresponds to its expected value.

Part name	Part type	Optional	Description
PresenceDataFormat	PresenceDataFormat	No	Indicates the schema of presence data
PresenceSchema	PresenceDataSchema[0..unbounded]	Yes	Indicates a list of the namespaces of the PIDF extensions. The parameter is only valid when PresenceDataFormat is set to PIDF.
PresenceAttributeName	xsd:string	No	Attribute name, according to the schema indicated by the PresenceDataFormat.
PresenceValue	xsd:string	No	Attribute value.

6. Fault number ranges by service

This table extends the Parlay X fault number ranges (see [3GPP TS 29.199-1] , section 10.3) by adding those that are needed by NGSI.

The following table defines fault number ranges that are reserved for use by specific Parlay X (PX) and NGSI Web Services. Original Parlay X ranges are set in roman, NGSI extensions in *italic*.

Web Service	Interface	SVC range	POL range
Third Party Call	PX part 2 and NGSI-4	0260 to 0264	*0270 to 0279*
Call Notification	PX part 3 and NGSI-5		
Short Messaging	PX part 4	0280 to 0284	
Multimedia Messaging	PX part 5	0230 to 0234	
Payment	PX part 6	0270 to 0274	0250 to 0254
Account Management	PX part 7	0250 to 0254	0220 to 0224
Terminal Status	PX part 8		0200 to 0204
Terminal Location	PX part 9	0200 to 0204	0230 to 0234
Call Handling	PX part 10 and NGSI-6		*0260 to 0269*
Audio Call	PX part 11	0290 to 0294	
Multimedia Conference	PX part 12 and NGSI-7	0210 to 0214	0240 to 0244
Address List Management	PX part 13		0210 to 0214
Presence	PX part 14	0220 to 0224	
Message Broadcast	PX part 15	0300 to 0304	0330 to 0334
Geocoding	PX part 16	0370 to 0374	0350 to 0354
Application-driven QoS	PX part 17	0340 to 0344	0310 to 0314
Multimedia Streaming Control	PX part 19 and NGSI-8		
NGSI Data Configuration and Management	NGSI-1, NGSI-2, NGSI-3	*0440 to 0449*	*0460 to 0469*
NGSI Context Management	NGSI-9, NGSI-10		
NGSI Identity Control	NGSI-13, NGSI-14	*0420 to 0429*	*0400 to 0409*
NGSI Registration and Discovery	NGSI-11, NGSI-12		

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 Common-V1_0	26 May 2010	all	Creation of baseline document and updated fault code ranges.
	08 Jun 2010	2, 5	CRs implemented: • OMA-ARC-NGSI-2010-0113R01 • OMA-ARC-NGSI-2010-0131R01
	28 Jun 2010	6	Implemented the resolution for CONRR comment D001
Candidate Version: OMA-TS-NGSI Common-V1_0	03 Aug 2010	All	Editorial fix: 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)

There are no Static Conformance Requirements specified in this document.