Enabler Release Definition for SOAP Binding for NGSI V1.0

Approved Version 1.0 – 29 May 2012

Open Mobile Alliance

OMA-ERELD-NGSI-S-V1_0-20120529-A

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1. Scope

The scope of this document is limited to the Enabler Release Definition of SOAP Binding for NGSI (NGSI-S) V1.0 according to OMA Release process and the Enabler Release specification baseline listed in section 5.

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2. References

2.1 Normative References

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

[3GPP TS 29.199-2] "Open Service Access (OSA) Parlay X web services; Part 2:Third party call", 3GPP TS 29.199-2 Rel.8, URL:http://www.3gpp.org/

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

[3GPP TS 29.199-10] "Open Service Access (OSA) Parlay X web services; Part 10: Call Handling", 3GPP TS 29.199-10 Rel. 8, URL:http://www.3gpp.org/

[3GPP TS 29.199-12] "Open Service Access (OSA) Parlay X web services; Part 12: Multimedia Conference", 3GPP TS 29.199-12 Rel. 8, URL:http://www.3gpp.org/

[3GPP TS 29.199-19] "Open Service Access (OSA) Parlay X web services; Part 19", URL:http://www.3gpp.org/

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

[NGSI_COM] Technical Specification "Next Generation Service Interfaces Common Definitions", Open Mobile Alliance™, OMA-TS-NGSI_Common-V1_0, URL:http://www.openmobilealliance.org/

[NGSI_CCC] Technical Specification "Next Generation Service Interfaces Call Control and Configuration", Open Mobile Alliance™, OMA-TS-NGSI_Call_Control_and_Configuration-V1_0, URL:http://www.openmobilealliance.org/

[NGSI_IDM] Technical Specification "Next Generation Service Interfaces Identity Control", Open Mobile Alliance™, OMA-TS-NGSI_Identity_Control-V1_0, URL:http://www.openmobilealliance.org/

[NGSI_MLH] Technical Specification "Next Generation Service Interfaces Multimedia List Handling", Open Mobile Alliance™, OMA-TS-NGSI_Multimedia_List_Handling_Extension-V1_0, URL:http://www.openmobilealliance.org/

[NGSI RD] "Next Generation Service Interfaces 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

[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 x.y, Open Mobile Alliance™, OMA-ORG-Dictionary-Vx_y, URL:http://www.openmobilealliance.org/

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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”, "Release Version Overview" and “Conformance Requirements Notation Details”, are normative, unless they are explicitly indicated to be informative.

The formal notation convention used in sections 8 and **Error! Reference source not found.** to formally express the structure and internal dependencies between specifications in the Enabler Release specification baseline is detailed in [SCRRULES].

3.2 Definitions

Enabler Release	Collection of specifications that combined together form an enabler for a service area, e.g. a download enabler, a browsing enabler, a messaging enabler, a location enabler, etc. The specifications that are forming an enabler should combined fulfil a number of related market requirements.
Minimum Functionality Description	Description of the guaranteed features and functionality that will be enabled by implementing the minimum mandatory part of the Enabler Release.

3.3 Abbreviations

ERDEF	Enabler Requirement Definition
ERELD	Enabler Release Definition
NGSI	Next Generation Service Interfaces
NGSI-S	SOAP Binding for Next Generation Service Interfaces
OMA	Open Mobile Alliance
OMNA	Open Mobile Naming Authority

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4. Release Version Overview

4.1 Version 1.0 Functionality

The NGSI-S Version 1.0 introduces the SOAP Bindings for the following functionalities:

- Call Control
- Call Notification
- Call Handling
- Multimedia Conference
- Multimedia Streaming
- Identity Control
- Common Definitions

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5. Document Listing for NGSI-S V1.0

This section is normative.

Doc Ref	Permanent Document Reference	Description
Requirement Document		
[NGSI_RD]	OMA-RD-NGSI-V1_0-20120529-A	Requirement Document for NGSI Enabler
Architecture Document		
[NGSI_AD]	OMA-AD-NGSI-V1_0-20120529-A	Architecture Document for NGSI Enabler
Technical Specifications		
[NGSI-S-COM]	OMA-TS-NGSI_S_Common-V1_0-20120529-A	Technical Specification for the SOAP binding of the common data structure as defined in Parlay X Common specification [3GPP TS 29.199-1] and the OMA NGSI extensions as defined in [NGSI-COM].
[NGSI-S-CTR]	OMA-TS-NGSI_S_Call_Control-V1_0-20120529-A	Technical Specification for the SOAP binding of the Call Control functionalities as defined in [3GPP TS 29.199-2] and the OMA NGSI extensions as defined in [NGSI-CCC].
[NGSI-S-CNF]	OMA-TS-NGSI_S_Call_Notification-V1_0-20120529-A	Technical Specification for the SOAP binding of the Call Notifications functionalities as defined in [3GPP TS 29.199-3] and the OMA NGSI extensions as defined in [NGSI-CCC].
[NGSI-S-CHD]	OMA-TS-NGSI_S_Call_Handling-V1_0-20120529-A	Technical Specification for the SOAP binding of the Call Handling functionalities as defined in [3GPP TS 29.199-10] and the OMA NGSI extensions as defined in [NGSI-CCC].
[NGSI-S-MMC]	OMA-TS-NGSI_S_Multimedia_Conference-V1_0-20120529-A	Technical Specification for the SOAP binding of the Multimedia Conferencing functionalities as defined in [3GPP TS 29.199-12] and the OMA NGSI extensions as defined in [NGSI-CCC].
[NGSI-S-IDM]	OMA-TS-NGSI_S_Identity_Control-V1_0-20120529-A	Technical Specification for the SOAP binding of the OMA NGSI Identity Control interface as defined in [NGSI-IDM].
[NGSI-S-MST]	OMA-TS-NGSI_S_Multimedia_Streaming-V1_0-20120529-A	Technical Specification for the SOAP binding of the Multimedia Streaming functionalities as defined in [3GPP TS 29.199-19] and the OMA NGSI extensions for Multimedia List Handling as defined in [NGSI-MLH].
Supporting Files		
[NGSI-S-SUP-COM]	OMA-SUP-WSDL_ngsi_common-V1_0-20120529-A	WSDL package for NGSI – Common Working files in Schema directory: ngsi_common-v1_0.zip path: http://www.openmobilealliance.org/tech/wsdl/
[NGSI-S-SUP-CTR]	OMA-SUP-WSDL_ngsi_call_control-V1_0-20120529-A	WSDL package for NGSI – Call Control Working files in Schema directory: ngsi_call_control-v1_0.zip path: http://www.openmobilealliance.org/tech/wsdl/
[NGSI-S-SUP-CHD]	OMA-SUP-WSDL_ngsi_call_handling-V1_0-20120529-A	WSDL package for NGSI – Call Handling Working files in Schema directory: ngsi_call_handling-v1_0.zip path: http://www.openmobilealliance.org/tech/wsdl/

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[NGSI-S-SUP-CNF]	OMA-SUP-WSDL_ngsi_call_notification-V1_0-20120529-A	WSDL package for NGSI – Call Notification Working files in Schema directory: ngsi_call_notification-v1_0.zip path: http://www.openmobilealliance.org/tech/wsdl/
[NGSI-S-SUP-MST]	OMA-SUP-WSDL_ngsi_streaming-V1_0-20120529-A	WSDL package for NGSI – Streaming Working files in Schema directory: ngsi_strreaming-v1_0.zip path: http://www.openmobilealliance.org/tech/wsdl/
[NGSI-S-SUP-MMC]	OMA-SUP-WSDL_ngsi_multimedia_conference-V1_0-20120529-A	WSDL package for NGSI – Multimedia conference Working files in Schema directory: ngsi_multimedia_conference-v1_0.zip path: http://www.openmobilealliance.org/tech/wsdl/
[NGSI-S-SUP-IDM-RES]	OMA-SUP-WSDL_ngsi_identity_resolution-V1_0-20120529-A	WSDL package for NGSI – Identity Resolution Working files in Schema directory: ngsi_identity_resolution-v1_0.zip path: http://www.openmobilealliance.org/tech/wsdl/
[NGSI-S-SUP-IDM-MGT]	OMA-SUP-WSDL_ngsi_identity_management-V1_0-20120529-A	WSDL package for NGSI – Identity Management Working files in Schema directory: ngsi_identity_management-v1_0.zip path: http://www.openmobilealliance.org/tech/wsdl/

Table 1: Listing of Documents in NGSI-S V1.0 Enabler

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6. OMNA Considerations

The NGSI-S V1.0 enabler introduces the following namespaces in the “wsdl” domain.

Note that in order to maintain compatibility between minor versions of the same major version, only the major version is reflected in the namespace identifier. Further note that subsequent minor versions of the same XML schema (e.g. 1.1) will be registered against the same namespace identifier.

Description	Registered URN	Schema Links
NGSI- Common WSDL	urn:oma:wsdl:ngsi:common:1	http://www.openmobilealliance.org/tech/wsdl/ ngsi_common-v1_0.zip
NGSI- Call Control WSDL	urn:oma:wsdl:ngsi:third_party_call:1	http://www.openmobilealliance.org/tech/wsdl/ ngsi_call_control-v1_0.zip
NGSI- Call Handling WSDL	urn:oma:wsdl:ngsi:call_handling:1	http://www.openmobilealliance.org/tech/wsdl/ ngsi_call_handling-v1_0.zip
NGSI- Call Notification WSDL	urn:oma:wsdl:ngsi:call_direction:1 urn:oma:wsdl:ngsi:call_notification:1	http://www.openmobilealliance.org/tech/wsdl/ ngsi_call_notification-v1_0.zip
NGSI- Streaming WSDL	urn:oma:wsdl:ngsi:streaming:1	http://www.openmobilealliance.org/tech/wsdl/ ngsi_streaming-v1_0.zip
NGSI- Multimedia conference WSDL	urn:oma:wsdl:ngsi:multimedia_conference:1	http://www.openmobilealliance.org/tech/wsdl/ ngsi_multimedia_conference-v1_0.zip
NGSI- Identity Resolution WSDL	urn:oma:wsdl:ngsi:identity_resolution:1	http://www.openmobilealliance.org/tech/wsdl/ ngsi_identity_resolution-v1_0.zip
NGSI- Identity Management WSDL	urn:oma:wsdl:ngsi:identity_management:1	http://www.openmobilealliance.org/tech/wsdl/ ngsi_identity_management-v1_0.zip

Table 2 OMNA Namespaces in the “ngsi” XML SchemaDomain

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7. Conformance Requirements Notation Details

This section is informative.

The tables in following chapters use the following notation:

Item: Entry in this column MUST be a valid ScrItem according to [SCRRULES].

Feature/Application: Entry in this column SHOULD be a short descriptive label to the **Item** in question.

Requirement: Expression in the column MUST be a valid TerminalExpression according to [SCRRULES] and it MUST accurately reflect the architectural requirement of the **Item** in question.

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8. ERDEF for NGSI-S V1.0

This section is normative.
The NGSI-S V1.0 Enabler has been designed in a modular fashion. Each of the Technical Specifications provides a module. Full conformance to NGSI-S v1.0 means that all modules SHALL be supported.

Item	Feature / Application	Requirement
OMA-ERDEF-NGSI_S-001-M	NGSI-S Call Control Interface	[NGSI-S-CTR]
OMA-ERDEF-NGSI_S-002-M	NGSI-S Call Notification Interface	[NGSI-S-CNF]
OMA-ERDEF-NGSI_S-003-M	NGSI-S Call Handling Interface	[NGSI-S-CHD]
OMA-ERDEF-NGSI_S-004-M	NGSI-S Multimedia Conference Interface	[NGSI-S-MMC]
OMA-ERDEF-NGSI_S-005-M	NGSI-S Identity Control Interface	[NGSI-S-IDM]
OMA-ERDEF-NGSI_S-006-M	NGSI-S Multimedia Streaming	[NGSI-S-MST]

Table 3: ERDEF for NGSI-S V1.0 Requirements

However, in practical API deployments, usually only a part of the modules is supported. In order to reflect this reality, the subsections allow conformance to individual interfaces.

8.1 ERDEF for the NGSI-S 1.0 Call Control Interface

Conformance to NGSI-S v1.0 Call Control interface means that the following SHALL be supported.

Item	Feature / Application	Requirement
OMA-ERDEF-NGSI-CTR-S-001-M	NGSI-S Call Control Interface	[NGSI-S-CTR]

Table 4: ERDEF for NGSI-S v1.0 Call Control

8.2 ERDEF for the NGSI-S 1.0 Call Notification Interface

Conformance to NGSI-S v1.0 Call Notification interface means that the following SHALL be supported.

Item	Feature / Application	Requirement
OMA-ERDEF-NGSI-CNF-S-001-M	NGSI-S Call Notification Interface	[NGSI-S-CNF]

Table 5: ERDEF for NGSI-S v1.0 Call Notification

8.3 ERDEF for the NGSI-S 1.0 Call Handling Interface

Conformance to NGSI-S v1.0 Call Handling interface means that the following SHALL be supported.

Item	Feature / Application	Requirement
OMA-ERDEF-NGSI-CHD-S-001-M	NGSI-S Call Handling Interface	[NGSI-S-CHD]

Table 6: ERDEF for NGSI-S v1.0 Call Handling

8.4 ERDEF for the NGSI-S 1.0 Multimedia Conference Interface

Conformance to NGSI-S v1.0 Multimedia Conference interface means that the following SHALL be supported.

Item	Feature / Application	Requirement
OMA-ERDEF-NGSI-MMC-S-001-M	NGSI-S Multimedia Conference Interface	[NGSI-S-MMC]

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Table 7: ERDEF for NGSI-S v1.0 Multimedia Conference

8.5 ERDEF for the NGSI-S 1.0 Identity Control Interface

Conformance to NGSI-S v1.0 Identity Control interface means that the following SHALL be supported.

Item	Feature / Application	Requirement
OMA-ERDEF-NGSI-IDM-S-001-M	NGSI-S Identity Control Interface	[NGSI-S-IDM]

Table 8: ERDEF for NGSI-S v1.0 Identity Control

8.6 ERDEF for the NGSI-S 1.0 Multimedia Streaming Interface

Conformance to NGSI-S v1.0 Multimedia Streaming interface means that the following SHALL be supported.

Item	Feature / Application	Requirement
OMA-ERDEF-NGSI-MST-S-001-M	NGSI-S Multimedia Streaming Interface	[NGSI-S-MST]

Table 9: ERDEF for NGSI-S v1.0 Multimedia Streaming

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Appendix A. Change History (Informative)

A.1 Approved Version History

Reference	Date	Description
OMA-ERELD-NGSI_S-V1_0-20120529-A	29 May 2012	Status changed to Approved by TP Ref TP Doc # OMA-TP-2012-0205-INP_NGSI_S_V1_0_for_Final_Approval

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