

# LIAISON STATEMENT

Title: Liaison about OMA activities on NetAPIs and Service Exposure Framework  Public  Confidential LS<sup>1</sup>

Date: 23 May 2014

To: IETF

Source: OMA Architecture Working Group

Send Replies to: OMA-LIAISON@mail.openmobilealliance.org

Contact(s): Vincenzo Amorino, ARC Chair, [vincenzo.amorino@telecomitalia.it](mailto:vincenzo.amorino@telecomitalia.it)  
Shahram Mohajeri, ARC Vice Chair, [SM7084@att.com](mailto:SM7084@att.com)  
Pierre Henri Gross, ARC Vice Chair, [pierre.gross@alcatel-lucent.com](mailto:pierre.gross@alcatel-lucent.com)

Attachments: n/a

## 1 Overview

This liaison statement includes updated information about Open Mobile Alliance (OMA) activities related to Network APIs, announcing three new Work Items just approved, and seek for future collaboration.

### 1.1 Background and OMA ARC WG mission

The OMA Architecture Working Group (OMA ARC WG) has released over the years specifications for several "Network APIs," i.e. programmable interface to expose capabilities of a resource residing in the Network (e.g. a Server) of a network operator, enabling smart use of network resources management. Network APIs specified by OMA, when deployed by a network operator, can be exposed internally in the operator domain, or exposed to business partners or exposed to the large community of developers.

For comprehensive APIs description, collection and all updates of OMA APIs, it is suggested to visit the OMA Web Site Section at [1] and the OMA API Inventory website at [2].

In addition, OMA is very proud of the strong cooperation it has with other industry partners on the topic of APIs. OMA receives market requirements from the following organizations:

- GSMA OneAPI and GSMA Global Specification Group (GSG) for various Profiles;
- Small Cell Forum for exposure of Small Cell capabilities;
- Government Entity like BEREC and European Commission for the definition of new APIs to be used for the interaction between the EU (European Union) MNOs and the Alternate Roaming Providers as requested by the mandatory EU Regulation on "Separate sale of regulated retail roaming services";
- 3GPP, with which a collaboration is being setting-up about architecture enhancements wherein 3GPP system provided service capabilities are exposed to application providers.

<sup>1</sup> If the "Confidential LS" box is selected, this liaison statement is intended to be Confidential per agreement by OMA and the addressed organization. Neither side should make this communication available to non-members.

NO REPRESENTATIONS OR WARRANTIES (WHETHER EXPRESS OR IMPLIED) ARE MADE BY THE OPEN MOBILE ALLIANCE OR ANY OPEN MOBILE ALLIANCE MEMBER OR ITS AFFILIATES REGARDING ANY OF THE IPR'S REPRESENTED ON THE "OMA IPR DECLARATIONS" LIST, INCLUDING, BUT NOT LIMITED TO THE ACCURACY, COMPLETENESS, VALIDITY OR RELEVANCE OF THE INFORMATION OR WHETHER OR NOT SUCH RIGHTS ARE ESSENTIAL OR NON-ESSENTIAL.

THE OPEN MOBILE ALLIANCE IS NOT LIABLE FOR AND HEREBY DISCLAIMS ANY DIRECT, INDIRECT, PUNITIVE, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE USE OF DOCUMENTS AND THE INFORMATION CONTAINED IN THE DOCUMENTS.

THIS DOCUMENT IS PROVIDED ON AN "AS IS" "AS AVAILABLE" AND "WITH ALL FAULTS" BASIS.

## 1.2 OMA ARC WG new activities

In addition to a long list of existing Network APIs, OMA ARC WG is about to release other Network APIs namely: Network Message Storage API and QoS API. OMA has recently approved the following three new Work Items, which calls for the OMA ARC WG to develop within the next few months:

1. The “**OMA Template for Network API**” Work Item [3]: this work will specify a template for RESTful Network API and it will be made available externally to OMA (e.g. for other Standard Organizations) for defining their own RESTful APIs; this template will be based on the consolidated OMA internal template for Network API; this work is **expected to be completed in August 2014**;
2. The “**OMA Guidelines for RESTful Network API**” Work Item [4]: based on the experience the OMA ARC has consolidated and on the guidelines already defined for internal use, this work will specify guidelines and best practices, that will be made available externally to OMA, for the development of RESTful Network API specifications; this work is **expected to be completed in December 2014**;
3. The “**OMA Service Exposure Framework**” Work Item [5]: deploy and expose Network APIs for an operator does not mean only implementing an application interface (API) fulfilling functional requirements, but additional supporting non-functional capabilities are to be considered, such as AAA, policy to protect platforms and network, policy related to the specific functionalities exposed; this work will specify such Service Exposure Framework as a tool (see Figure 1) to ease the integration between different service environment and the access to network capabilities by external and internal service centers; this work is **expected to be completed in December 2014**.

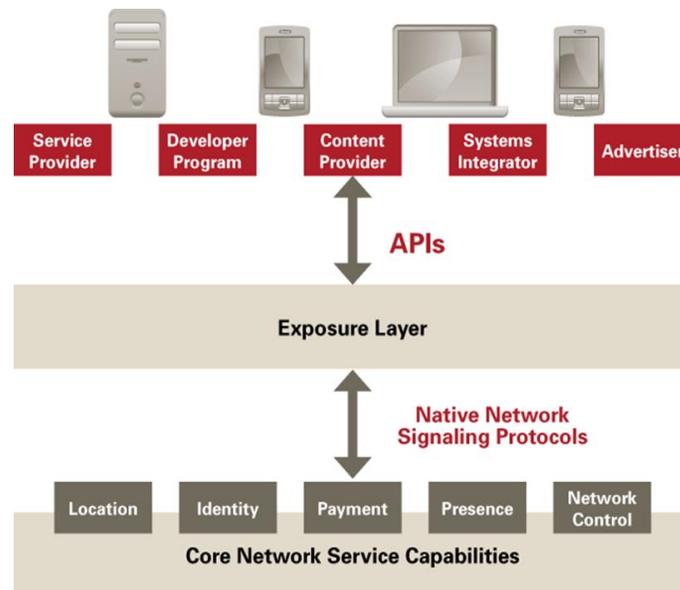


Figure 1: “Service Exposure” model

### References:

- [1] <http://technical.openmobilealliance.org/Technical/api-information>
- [2] <http://technical.openmobilealliance.org/Technical/technical-information/oma-api-program/oma-api-inventory>
- [3] [http://member.openmobilealliance.org/ftp/Public\\_documents/TP/Permanent\\_documents/OMA-WID\\_0302-Template\\_for\\_Network\\_API\\_V1\\_0-20140523-A.zip](http://member.openmobilealliance.org/ftp/Public_documents/TP/Permanent_documents/OMA-WID_0302-Template_for_Network_API_V1_0-20140523-A.zip)

- [4] [http://member.openmobilealliance.org/ftp/Public\\_documents/TP/Permanent\\_documents/OMA-WID\\_0303-OMA\\_Guidelines\\_for\\_RESTful\\_Network\\_API-V2\\_0-20140523-A.zip](http://member.openmobilealliance.org/ftp/Public_documents/TP/Permanent_documents/OMA-WID_0303-OMA_Guidelines_for_RESTful_Network_API-V2_0-20140523-A.zip)
- [5] [http://member.openmobilealliance.org/ftp/Public\\_documents/TP/Permanent\\_documents/OMA-WID\\_0304-OMA\\_Service\\_Exposure\\_Framework-V1\\_0-20140523-A.zip](http://member.openmobilealliance.org/ftp/Public_documents/TP/Permanent_documents/OMA-WID_0304-OMA_Service_Exposure_Framework-V1_0-20140523-A.zip)

## 2 Requested Action(s)

Receivers of this liaison are kindly requested to note that OMA ARC WG is pleased to cooperate on the subject of Network APIs and Exposure Layer (as per figure above), receiving requirements and developing new specifications or enhancing existing ones which may be of interest.

The OMA ARC WG is also available to have joint conference calls or joint F2F meetings if needed, in order to discuss and identify the terms of a potential cooperation. Please refer to the following link for the upcoming OMA meetings <http://openmobilealliance.org/events/oma-member-meetings/>

The OMA ARC WG would like to kindly ask the receivers of this liaison to provide an update of activities that may have a relationship with OMA ARC WG activities described above and that might take advantage of a joint cooperation with OMA ARC WG.

## 3 Conclusion

OMA ARC WG would like to thank the receivers of this liaison for their consideration and look forward to establish/continue the collaboration.