

INPUT CONTRIBUTION

Title: OMA ARC response to TM Forum OSPE WR ☒ Public ☐ OMA Confidential
To: ARC WG
Submission Date: August 18 2008
Source: Michael Brenner, Alcatel-Lucent,
mrbrenner@alcatel-lucent.com
Attachments: OMA-response-to-WR002 v4 – August 2008.doc ☒ Public ☐ OMA Confidential
Replaces: <previous revision DocId> or n/a

1 Reason for Contribution

Need to review and agree the response to TM Forum SDF Work Register for OSPE. This revision addresses the comment received during R&A of the previous revision, and proposes an alternative date for completion of OSPW Work Register.

2 Summary of Contribution

TM Forum SDF has expressed interest in OSPE requirements, and is asking OMA ARC to continue this activity and co-operate with the TM Forum SDF team in their task to incorporate aspects of OSPE in the TM Forum SDF deliverables. In order to exchange documents with the TM Forum SDF activity regarding OSPE, OMA ARC needs to agree to setting up a joint Work Register (as per TM Forum process). In principle, OMA TP chair has agreed to setting up on the TM Forum side such "work vehicles". In Prague, OMA ARC had agreed to continue work on OSPE, which is consistent with the TM Forum SDF request. The attachment represents the proposed response to the TM Forum SDF Work Register specifically for the OSPE topic.

3 Detailed Proposal

See attachment for details.

4 Intellectual Property Rights

Members and their Affiliates (collectively, "Members") agree to use their reasonable endeavours to inform timely the Open Mobile Alliance of Essential IPR as they become aware that the Essential IPR is related to the prepared or published Specification. This obligation does not imply an obligation on Members to conduct IPR searches. This duty is contained in the Open Mobile Alliance application form to which each Member's attention is drawn. Members shall submit to the General Manager of Operations of OMA the IPR Statement and the IPR Licensing Declaration. These forms are available from OMA or online at the OMA website at www.openmobilealliance.org.

5 Recommendation

The recommendation is for OMA ARC to agree to the response to TM Forum SDF, thus allowing us to immediately continue the co-operation specifically on OSPE, and to send the attached response to the TM Forum SDF.

TM Forum Liaison Activities – Work Register

Work item Number OMAWR002

Title TM Forum / SDF - collaboration with OMA/OSPE development

Is this associated with a formal Liaison Agreement? Yes

Organization & Work Group Involved: OMA / ARC WG - OSPE AHG (Ad Hoc Group)

TM Forum Work Area(s) Associated with work items SDF Team

Brief Description / Scope of Work Register:

OMA is kindly encouraged to continue development of the OSPE enabler and identified SDF members in this Work Register will be prepared to act as the focal points within TM Forum for the review and contributions into the work - as to be agreed with OMA. This will include the review and provision of feedback to updates of the associated OMA OSPE Requirements and Architecture documentation, as well as to the OMA OSPE Technical Specification (should this work continue in OMA). It is also expected that the resultant work from this updated OSPE development would be incorporated into TM Forum's SDF development as appropriate and as to be agreed by the SDF team.

OMA response: OMA ARC has reviewed the TM Forum SDF request for continuation of the OSPE specifications activity, and support of the creation of the TM Forum SDF OSPE Work Register, and thank the TM Forum SDF team for their interest in OSPE. Based on new developments in OSPE (including recently submitted contributions, and stated commitment from several companies in completing the OSPE enabler work), OMA ARC has decided to continue the work on the OSPE enabler, and even rescinded a previous decision to limit the work to the Service Level Tracing features. As a result, the full initial scope of the OSPE Work Item (Lifecycle Management and Service Level Tracing) is now the new target for the OSPE specifications. As a result, OMA ARC is pleased to respond affirmatively to the requests issued by the TM Forum SDF team (continue work on OSPE and agree to the TM Forum SDF OSPE Work Register) and is looking forward to the collaboration to complete the OSPE work.

We expect that this activity will need to reflect TM Forum's own Requirements document (TMF519) and Technical Overview / Reference Model (TR139) developments. Hence, inputs into OMA OSPE will need to be provided by TM Forum's in line with SDF deliverable dates. As an initial step towards this closer working relationship, TM Forum would propose the submission of its present form of the SDF Requirements document (BA – TMF 519) and an introduction to draft TR139 V2 diagram illustrating where this could play a role as input to OSPE.

OMA response: OMA ARC is committed to review any input from TM Forum SDF, and consider any proposals that follow OMA development processes.

Business Justification/Reason for Involvement:

- *Benefits to TM Forum*

TM Forum Liaison Activities – Work Register

Contributions into SDF Management Requirements and Reference Model – via co-operative further development of OMA / OSPE. This will be achieved via closer working with OMA through the joint onward development of the OSPE

Delegation of the specification of management enabler as a SDF management support service to OMA.

(More detail in Appendix)

- **Benefits to Liaison Partner(s)**

Contributions into OMA / OSPE from related SDF developments.

SDF may also be positioned as a possible 'Customer' for the OSPE specifications

(More detail in Appendix)

Objectives

Closer working between TM Forum's SDF developments and OMA's OSPE.

Continuation of OMA's OSPE development with appropriate review / contribution and updates of the current work from identified members of TM forum's SDF team and motivated by the TM Forum SDF activities.

Specification of a management enabler as a SDF management support service

OMA response: Within OMA, any changes to OSPE requirements, architecture or specifications in support of TM Forum SDF shall be handled within OMA OSPE Work Item, in accordance to the OMA process, and shall be based on OMA contributions submitted by OMA member companies.

Milestones / Dates to be Achieved / Review Points:

Joint activity to commence June 2008

Review October 2008 – judge if arrangement is working and if it should be continued

OMA response: OMA ARC will review any proposal on joint activity on OSPE by October, assuming such proposals are available within a reasonable timeframe.

Anticipated completion of Work Register

This phase of joint work activity to be completed end December 2008

Further phases may be commenced after this – depending upon results obtained in the initial phase

OMA response: OSPE Specifications show a target completion date of December 15, 2008, but that still needs to be adjusted given the relatively long delay in progress. The new date will be decided by August 22nd (a realistic date may be June 2009). OMA ARC has no experience with the TM Forum Work Register process, and how much it may add after the completion of OSPE Work Item, but December 2008 does not seem feasible, and so OMA ARC suggests end of June 2009 instead.

Identified Resources / Points of Contact:

Within TM Forum

Activity to be led by:

Stephane Maes - Oracle

Supported by:

Work Register #OMAWR002

TM Forum Liaison Activities – Work Register

Contributions into SDF Management Requirements and Reference Model – via co-operative further development of OMA / OSPE. This will be achieved via closer working with OMA through the joint onward development of the OSPE
Delegation of the specification of management enabler as a SDF management support service to OMA.
(More detail in Appendix)

- ***Benefits to Liaison Partner(s)***

Contributions into OMA / OSPE from related SDF developments.
SDF may also be positioned as a possible 'Customer' for the OSPE specifications
(More detail in Appendix)

Objectives

Closer working between TM Forum's SDF developments and OMA's OSPE.
Continuation of OMA's OSPE development with appropriate review / contribution and updates of the current work from identified members of TM forum's SDF team and motivated by the TM Forum SDF activities.
Specification of a management enabler as a SDF management support service

OMA response: Within OMA, any changes to OSPE requirements, architecture or specifications in support of TM Forum SDF shall be handled within OMA OSPE Work Item, in accordance to the OMA process, and shall be based on OMA contributions submitted by OMA member companies.

Milestones / Dates to be Achieved / Review Points:

Joint activity to commence June 2008
Review October 2008 – judge if arrangement is working and if it should be continued

OMA response: OMA ARC will review any proposal on joint activity on OSPE by October, assuming such proposals are available within a reasonable timeframe.

Anticipated completion of Work Register

This phase of joint work activity to be completed end December 2008
Further phases may be commenced after this – depending upon results obtained in the initial phase

OMA response: OSPE Specifications show a target completion date of December 15, 2008, but that still needs to be adjusted given the relatively long delay in progress. The new date will be decided by August 22nd (a realistic date may be June 2009). OMA ARC has no experience with the TM Forum Work Register process, and how much it may add after the completion of OSPE Work Item, but December 2008 does not seem feasible, and so OMA ARC suggests end of June 2009 instead.

Identified Resources / Points of Contact:

Within TM Forum

Activity to be led by:
Stephane Maes - Oracle
Supported by:

TM Forum Liaison Activities – Work Register

Sargrario Aleman (who will possibly appoint another person in the company to carry out detailed work) – Telefonica

Within OMA ARC

Activity to be led by:

Gerry Winsor, HP

Supported by:

Eamonn Murray, AePONA

Deleted: TBD

Deleted: TBD

Additional Reviewers:

Tanja de Groot - Alcatel-Lucent

Jenny Huang – AT&T

Within Fora Partner(s)

Michael Brenner - Alcatel-Lucent

Details regarding TM Forum IPR and Copyright Policies are found at

<http://www.tmforum.org/browse.asp?catID=2211&sNode=2211&Exp=Y&linkID=29757>

Details regarding OMA IPR and Copyright Policies are found at

Agreed to by: OPEN MOBILE ALLIANCE
(Partner Organisation)

Date: 19TH AUGUST 2008

Signature: [Signature]

Print Name: MARK CATALDO

Title: OMA TP CHAIR

TM Forum

Date:

Signature:

Print Name:

Title:

TM Forum Liaison Activities – Work Register

Appendix

OMA - Overview

OMA's view of future service needs is that Service Providers want to improve their time-to-market and reduce costs to develop and deploy new services and enablers. Particular needs identified by OMA are listed below:

- Reduce service deployment and lifecycle costs
- Improve service/component time-to-market
- Allow component inter-changeability (one vendor to another)
- Allow the multi-vendor mixing-and-matching of components
- Provide run-time end-to-end Service Level Tracing within and across domains/environments
- Reduce mobile SP costs for services/components in areas such as:
 - integration and deployment
 - lifecycle management

OMA views services as using components that can be “composed”, in a manner consistent with SOA principles.

They focus solely on “OMA Enablers”, which it separates from other assets (as part of OMA Service Environment (OSE)).

Applications, or end-to-end Services, are out-of-scope for OMA specifications. Also, OMA has a logical architecture - OMA Service Environment (OSE) in which it combines “management entities” (e.g. OSS/BSS) with other infrastructure entities existing in the Service Provider Environment grouped into what OSE calls “Execution Environment” (EE). OMA Enablers expose their ability to be managed through the I1 interface of the OSE.

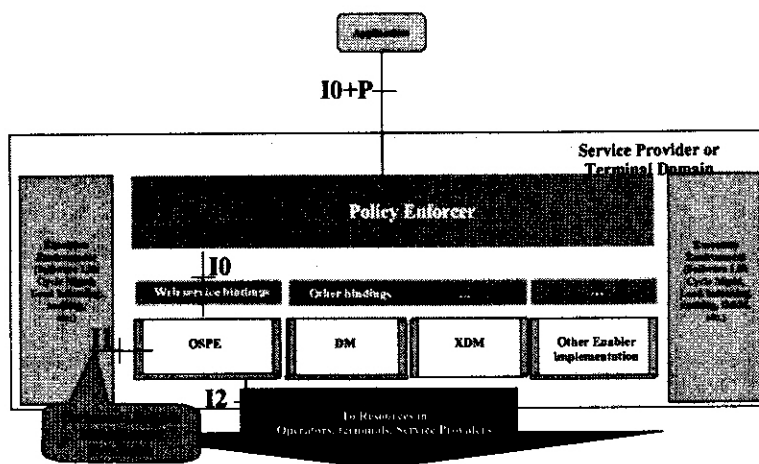


Figure 1 – OMA Service Environment (OSE)

TM Forum Liaison Activities – Work Register

An OMA enabler (and its components, if it has multiple components) is defined in terms of 3 types of interfaces, in its interactions with other Service Components:

- 1) a functional interface (category I0)
- 2) a resource facing interface (I2)
- 3) a lifecycle management interface (I1)

In addition an I0+ interface category provides a functional interface that considers parameters to be exposed for associated policy rules.

I0 are interfaces that OMA Working Groups define in their enabler specifications.

I2 are interfaces that are not specified in OMA.

I1 is the category of interfaces between enablers and the Execution Environment (e.g. software life cycle management process and monitoring etc).

The I1 interfaces may be specified by OMA, or may represent a reference to an interface defined elsewhere.

I1 definition (taken from the OSE Architecture Document):

I1 may be perceived as “a common lifecycle interface presented by all OMA enablers”.

The OMA Service Provider Environment (OSPE)

OSPE can be used to implement Life Cycle Management (LCM) and Service Level Tracing (SLT) functions for OMA enablers and services within the OSE (it provides OAM&P with limitations).

OSPE is therefore itself an OMA enabler that is able to provide Lifecycle Management and Service Level Tracing capabilities for other OMA enablers. These Management capabilities are exposed through the OSPE I0 interfaces.

Because services are executed by composing / orchestrating one or several enablers, OSPE has to be able to interact (or be bundled) with OMA enablers to make the activities of LCM and SLT take effect.

OSPE has identified Lifecycle Phases (defined in OSPE activity). The OMA focus has been mainly on deployment and execution phases.

OMA Management

OMA has approached the notion of “Management” from several angles:

- The OMA Service Environment (OSE) - a logical architecture that includes a category of interfaces (labeled I1) that support interactions between OMA enablers and the SP “execution environment” (including OSS/BSS to the extent they have to interface to OMA enablers to manage them).
- Requirements, architecture and technical specifications for identified interfaces to support OMA enablers life-cycle management (LCM) and Service Level Tracing (SLT), collectively referred to as OSPE (OMA Service Provider Environment) – with the goal of interacting with other enablers for OAM&P purposes. It may be viewed as a partial realization of the I1 set of interfaces.

TM Forum Liaison Activities – Work Register

- Comprehensive/focused Device Management (DM) provides a collection of enablers, including a DM Protocol (based on SyncML) and a set of DM Management Objects (MOs).
- Individual OMA enablers may also expose various management interfaces (e.g. for creating, retrieving, modifying or deleting specific data related to the enabler). Many of them are re-using XML Document Management (XDM is based on XCAP – RFC 4825)

Relation to TM Forum / SDF Work

The OSE and OSPE work in OMA may collectively be considered as a blueprint to an open Service Delivery Platform (SDP – defined in TR139), at least for services composed from service components deployed over converged networks.

OMA defines service component interfaces in the OSE in a similar fashion to those within the SDF development:

- I0 – relates to the TM Forum SDF “Functional” interface
- I1 – relates to the TM Forum SDF “Lifecycle Management” interface
- I2 – relates to the TM Forum SDF “Resource Abstraction” interface

It would be of value to compare any of the associated the requirements for these OMA interfaces with related requirements being specified within the SDF development.

OMA have the prime objective of defining I0 (Functional) interfaces. This complements very well the TM Forum SDF work which sees this area as being out of scope. Likewise the TM Forum SDF development is primarily aimed at the definition of Service Lifecycle Management – which is related to the OMA I1 interface. OMA may consider looking to other fora to provide specification for this interface – which fits well into the TM Forum SDF work direction.

OMA provides mappings to a number of network-based services – e.g. Parlay, Parlay X and IMS – this being achieved through support of associated I0 and/or I2 interfaces. This may provide a ready means for TM Forum SDF to provide value-add services over these network-based capabilities.

The OSPE provides specifications for many Management-related activities – e.g. Service Lifecycle (SLC), Service Level Tracing (SLT) and Service Model Management. This, coupled with the various other items of Requirements specification could provide multiple inputs into the TM Forum SDF Requirements for Management.

The OMA specifies a Device Management capability (DM). This should be related to the End User Device Management capability being defined within TM Forum and both of these should collectively be considered in relation to the scope of TM Forum SDF Management.

In summary, closer co-operation between TM Forum SDF and OMA OSE architecture and OSPE specifications could provide a combined open framework for next generation services management (SDF) and specifications for implementation of lifecycle management of the resources in such a SDF. The crucial area of integration would be around the OMA I1 (Lifecycle Management) interfaces and associated specifications and appropriate extensions

TM Forum Liaison Activities – Work Register

of the OSPE. An initial comparison of Requirement specifications (e.g. for Lifecycle Management) would also seem to be extremely valuable.