

OMA-BOF-CDM_Final_Report-V1_0-20071213-A Converged DM BoF

London, United Kingdom

Submitted To: Technical Plenary

Date: 13th December 2007

Availability: Public OMA Confidential

Contact: David Valerdi, dv82@tid.es

Source: CDM BoF

USE OF THIS DOCUMENT BY NON-OMA MEMBERS IS SUBJECT TO ALL OF THE TERMS AND CONDITIONS OF THE USE AGREEMENT (located at <http://www.openmobilealliance.org/UseAgreement.html>) AND IF YOU HAVE NOT AGREED TO THE TERMS OF THE USE AGREEMENT, YOU DO NOT HAVE THE RIGHT TO USE, COPY OR DISTRIBUTE THIS DOCUMENT. THIS DOCUMENT IS PROVIDED ON AN "AS IS" "AS AVAILABLE" AND "WITH ALL FAULTS" BASIS.

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.

Background for BoF (I)

- Objectives

- Assess and understand the key benefits of Converged Device Management.
- Involve the entire OMA value chain (both, fixed and mobile and others) in this activity.
- Evaluate the need of further work.

- Leadership

- Convenor: David Valerdi, dv82@tid.es
- Editor: Heather Kirksey, hkirksey@motive.com.

Background for BoF (II)

- Start Date - Completion Date

- July 2007 - December 2007

- Meeting Info

- CDM BoF met at 3 past WG meetings and had 5 Conf Calls.
- On average, about 25 people from 20 companies participated in each F2F meetings.
- 13 different contributing companies.
- 25 internal documents in the portal (excluding agendas, minutes and revisions). Among them, one main INP has been agreed:
 - http://www.openmobilealliance.org/ftp/Public_documents/TP/CDM/2007/OMA-CDM-2007-0038R02-INP_CDM_Scope_and_Terminology.zip

Key Topic Areas Covered by BoF (I)

- Converged DM concept and ecosystem

Converged DM: *A set of operations / activities that results in the configuration and management of devices that support one or more bearer technologies for services that can be consumed using one or more of those bearer technologies. These operations / activities help in configuring the devices for continuity of services across networks and across devices (when the service can be consumed by a user using one or more devices).*

- For further details see the following agreed INP:
 - http://www.openmobilealliance.org/ftp/Public_documents/TP/CDM/2007/OMA-CDM-2007-0038R02-INP_CDM_Scope_and_Terminology.zip

Key Topic Areas Covered by BoF (II)

- Use cases & Issues.

- A bundle of contributions containing use cases and issues expressing actual needs were noted. The following subjects were discussed:

- Management of converged services (e.g. services which may lie in both fixed and mobile environments, IMS architecture enabled services, etc.) across networks and devices.
- Management of converged devices (i.e. devices which are able to handover between fixed and mobile environments) across networks.
- Assessment of management issues for devices within a consumer's network (i.e. assessment of device management when device is placed behind a NAT).
- Assessment of consumer's network benefit to optimize specific device management functions (e.g. leveraging broadband connectivity for firmware upgrade package or software components management).

Key Topic Areas Covered by BoF (III)

- Contributions made regarding joint work with external forums
 - Some contributions were noted which proposed an increase of cooperation and coordination among DM involved SDO's, particularly between OMA and DSL Forum DM solutions:
 - Harmonization of data models by enabling the use of OMA-DM Management Objects by DSL Forum TR-069 mechanism (and vice versa).
 - Common data model to be used across existing DM frameworks.
 - Future developments of OMA-DM and DSL Forum TR-069 to be carried out in awareness of the other, in order to improve interoperability among them and facilitate DM frameworks integration.

Related Items to BoF

- Existing OMA Activities that relate to BoF Area of Interest

- OMA - Device Management

- Directly related to CDM BoF. An overview of OMA-DM enabler was done for CDM BoF participants' consumption:

- http://www.openmobilealliance.org/ftp/Public_documents/TP/CDM/2007/OMA-CDM-2007-0012-INP_DM_Standards_Overview_Next_Steps.zip

- Other Activities that relate to BoF

- DSL Forum

- TR-069 "CPE WAN Management Protocol" has become the de-facto standard for remote CPE (Customer Premise Equipment) management. This report covers functionalities as, for instance, auto-configuration and dynamic service provisioning, software/firmware image management, status and performance monitoring, diagnostics, etc.
 - Other related documents for CPE attached devices management (e.g. TR-111, TR-064, TR-104, etc.).

- http://www.openmobilealliance.org/ftp/Public_documents/TP/CDM/2007/OMA-CDM-2007-0011R01-INP_TR069_Tutorial.zip

Final Actions

- Recommendations for Further Work

- Explore interoperability among available DM frameworks, particularly between OMA-DM & TR-069 DSL Forum, through an increase of cooperation and coordination among DM involved standards development organizations.
- Reuse identified needs to generate requirements for future OMA-DM versions:
 - By including specific features for OMA-DM 1.3 which are in the scope of current OMA-DM WID (e.g. SIP bindings, HTTP notification, etc.)
 - By directly tackling “CDM issue” in a future OMA-DM v2.0:
 - “CDM issue” will be part of OMA-DM v2.0 WID.
 - Analysis and “proper solutions” to this issue within this new version.
 - OMA-DM WG will decide which type of deliverable is needed (whitepaper, part of TS, TS extension covering the gaps, etc.) to tackle “CDM issue”.

- Completion Comments

- Close CDM BoF.

- Items for TP Decision

- None.