Converged Address Book Management Object

Candidate Version 1.0 – 19 Oct 2010

Open Mobile Alliance

OMA-TS-CAB_MO-V1_0-20101019-C

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1. Scope

This document defines the OMA CAB Management Object (MO). The MO is defined using the OMA Device Description Framework.

2. References

2.1 Normative References

[CAB AD] "Converged Address Book Architecture", Version 1.0, Open Mobile Alliance™, OMA-AD-CAB-V1_0, URL:http://www.openmobilealliance.org/

[DM ERELD] "Enabler Release Definition for OMA Device Management", Version 1.2, Open Mobile Alliance™, OMA-ERELD-DM-V1_2, URL: http://www.openmobilealliance.org/

[DS MO] "OMA DS Management Object", Version 1.0, Open Mobile Alliance™, OMA-TS-DS_MO-V1_0, URL: http://www.openmobilealliance.org/

[OMA DM TND] "OMA Device Management Tree and Description", Version 1.2, Open Mobile Alliance™, OMA-TS-DM-TND-V1_2, URL: http://www.openmobilealliance.org/

[OMA DM SO] "OMA Device Management Standardized Objects", Version 1.2, Open Mobile Alliance™, OMA-TS-DM-StdObj-V1_2, URL: http://www.openmobilealliance.org/

[PUSH MO] "OMA Push Management Object", Version 1.0. Open Mobile Alliance™,

OMA-TS-Push_MO-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

[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/

[XDM MO] "OMA Management Object for XML Document Management", Version 2.1, Open Mobile Alliance™, OMA-TS-XDM_MO-V2_1, URL: http://www.openmobilealliance.org/

2.2 Informative References

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

CAB Client	See [CAB AD]
Management Object	See [OMA DM TND]

3.3 Abbreviations

DM	Device Management
MO	Management Object
OMA	Open Mobile Alliance

[OMA-Template-Spec-20100101-I]

4. Introduction

This document describes the configuration parameters and associated management object syntax that allows configuration of OMA CAB Client(s).

4.1 Version 1.0

The CAB MO Version 1.0 aims to provide the configuration parameters for the CAB Client.

The CAB MO Version 1.0 can be used for CAB 1.0 Enabler.

5. OMA CAB Management Object

This subclause defines the Management Object (MO) for OMA CAB. The MO SHOULD be used for initial provisioning of parameters when the DM Profile is to be used, and the MO SHOULD be used for continuous provisioning, which allows the service provider to update any parameter defined in the MO tree for service configurations during service deployment [DM_ERELD].

The OMA CAB Management Object consists of relevant parameters for configuration of CAB Client(s). It is defined using the OMA DM Device Description Framework as described in [OMA DM TND] and [OMA DM SO].

The Management Object Identifier is: urn:oma:mo:oma-cab:1.0

Protocol compatibility: This MO is compatible with OMA DM 1.2 (see [DM ERELD]).

Management object name: OMA_CAB

5.1 Management Object Tree

This section describes the Management Object tree (i.e. nodes and leaf objects) for provisioning of OMA CAB Client(s).

Figure 1 shows the interior nodes and leaf objects defined under the OMA_CAB node, which is used for configuration of CAB Clients.

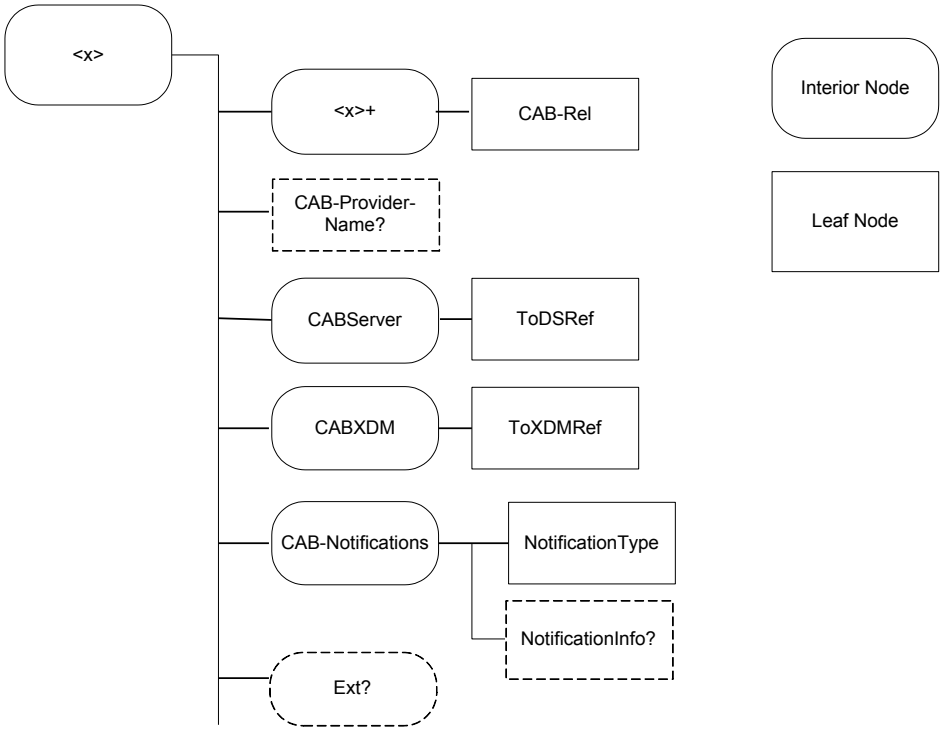

Figure 1: The OMA CAB Management Object tree

5.2 Management Object Parameters

This section describes the parameters for OMA CAB MO.

5.2.1 Node: /<x>

<x>

Status	Tree Occurrence	Format	Min. Access Types
Required	OneOrMore	node	Get

This interior node represents the unique object id of a *Converged Address Book Management Object*, or CAB MO. The purpose of this interior node is to group together the parameters of a single CAB MO object. The ancestor elements of this node define the position in the management tree of the CAB MO.

The Management Object Identifier is: "urn:oma:mo:oma-cab:1.0"

The interior node is mandatory if OMA CAB is supported.

5.2.2 Node: /<x>/<x>

<x>

Status	Tree Occurrence	Format	Min. Access Types
Required	OneOrMore	node	Get

This node is a placeholder for the CAB-Rel list. There SHALL be one or more of these nodes, each containing a CAB-Rel parameter/leaf node. This allows for multiple CAB-Rel values to be associated with the CAB MO.

5.2.3 Node: /<x>/<x>/CAB-Rel

<x>/CAB-Rel

Status	Tree Occurrence	Format	Min. Access Types
Required	One	chr	Get

This parameter/leaf node specifies the version of the CAB Release information supported by the CAB Client.

5.2.4 Node: /<x>/CAB-Provider-Name

CAB-Provider-Name

Status	Tree Occurrence	Format	Min. Access Types
Optional	ZeroOrOne	chr	Get

This parameter/leaf node provides an identifier for the service provider of this CAB service, which is expected to be globally unique..

5.2.5 Node: /<x>/CABServer

CABServer

Status	Tree Occurrence	Format	Min. Access Types
Required	One	node	Get

This interior node represents a container for configuring CAB Server related properties.

5.2.6 Node: /<x>/CABServer/ToDSRef

CABServer/ToDSRef

Status	Tree Occurrence	Format	Min. Access Types
Required	One	chr	Get

This parameter/leaf node specifies a reference to DS MO as defined in [DS MO] that is used to configure the DS client associated with the CAB Client. The referenced DS management object is either an existing instance on the client device or an instance specific to this CAB MO.

The value SHALL be a valid reference to a DS Management Object.

5.2.7 Node: /<x>/CABXDM

CABXDM

Status	Tree Occurrence	Format	Min. Access Types
Required	One	node	Get

This interior node represents a container for configuring CAB XDMS related properties.

5.2.8 Node: /<x>/CABXDM/ToXDMRef

CABXDM/ToXDMRef

Status	Tree Occurrence	Format	Min. Access Types
Required	One	chr	Get

This parameter/leaf node specifies a reference to XDM MO as defined in [XDM MO] that is used to configure the XDM Client associated with the CAB Client. The referenced XDM management object is either an existing instance on the client device or an instance specific to this CAB MO.

The value SHALL be a valid reference to a XDM Management Object.

5.2.9 Node: /<x>/CAB-Notifications

CAB-Notifications

Status	Tree Occurrence	Format	Min. Access Types
Required	One	node	Get

This interior node represents a container for configuring CAB Notification information.

5.2.10 Node: /<x>/CAB-Notifications/NotificationType

CAB-Notifications/NotificationType

Status	Tree Occurrence	Format	Min. Access Types
Required	One	chr	Get

This parameter/leaf node indicates the type of notification supported by the CAB Client i.e. either SIP or non-SIP notifications.

The value SHALL be a one of the following enumerations: ‘SIP’, ‘non-SIP’

5.2.11 Node: /<x>/CAB-Notifications/NotificationInfo

CAB-Notifications/NotificationInfo

Status	Tree Occurrence	Format	Min. Access Types
Optional	One	chr	Get

This parameter/leaf node provides additional notification information subject to the notification type (See 5.2.10 ‘NotificationType’). If the notification type is SIP, this parameter is not used since the information related to SIP notifications is provide in the XDM MO reference parameter (See 5.2.8 ‘ToXDMRef’). If the notification type is non-SIP, this parameter SHALL be used to configure the Push Client associated with the CAB Client, and the value SHALL contain a reference to the OMA PUSH MO [PUSH MO]. The referenced PUSH management object is either an existing instance on the client device or an instance specific to this CAB MO.

The value SHALL be a valid reference to a OMA PUSH Management Object.

5.2.12 Node: /<x>/Ext

Ext

Status	Tree Occurrence	Format	Min. Access Types
Optional	ZeroOrOne	node	Get

This interior node designates a branch of the <x> sub-tree into which vendor extensions MAY be added, permanently or dynamically. Ext sub tree provides flexible points of extension for vendor-specific parameters. However, vendor extensions MUST NOT be defined outside of Ext sub-tree.

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-CAB_MO-V1_0	10 Aug 2009	n/a	Initial draft for CAB MO specification
	08 Sep 2009	1, 2.1, 3.2, 3.3, 4, 5, 5.1, 5.2	Incorporated the following CR: OMA-MWG-CAB-2009-0262R01-CR_CAB_MO_TS_Baseline
	15 Jan 2010	2.1, 5.1, 5.2	Incorporated the following CR: OMA-MWG-CAB-2009-0263R02-CR_CAB_MO_Parameters
	21 Jan 2010	5.1, 5.2	Incorporated the following CR: OMA-MWG-CAB-2010-0023R01-CR_CAB_MO_Node_defintions_format_change
	09 Feb 2010	5.1, 5.2	Incorporated the following CR: OMA-MWG-CAB-2010-0029R01-CR_CAB_MO_basic parameters
	08 Mar 2010	5.1, 5.2	Incorporated the following CR: OMA-MWG-CAB-2010-0105-CR_Incoporated_feedback_from_DM_WG
	13 Aug 2010	2.2, 4.1	Incorporated the following CR: OMA-COM-CAB-2010-0328-CR_Resolution_E002_E003 OMA-COM-CAB-2010-0329-CR_Resolution_E004
	03 Sep 2010	4.1, 5, 5.1, 5.2	Incorporated the following CR: OMA-COM-CAB-2010-0341-CR_CONR_resolution_CAB_MO_TS
Candidate Versions OMA-TS-CAB_MO-V1_0	19 Oct 2010	All	Status changed to Candidate by TP: OMA-TP-2010-0431-INP_CAB_V1_0_ERP_for_Candidate_Approval Editorial fixes