



OMA PoC Document Management

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1. Scope

This specification describes the documents used by the PoC Enabler, including description of the PoC Enabler specific usage of data formats and XCAP Application Usages defined in the XDM Enabler. Additionally, this document specifies PoC Enabler specific deviations and extensions to the XDM Enabler documents.

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2.1 Normative References

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2.2 Informative References

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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” and “Introduction”, are normative, unless they are explicitly indicated to be informative.

3.2 Definitions

For the purposes of the PoC specifications, the terms and definitions given in [OMA Dictionary] and the following terms and definitions apply.

Active PoC Dispatcher	PoC User currently taking the role of PoC Dispatcher for all the Dispatch PoC Sessions of a Dispatch PoC Group. The Active PoC Dispatcher can change along time between PoC Users that are allowed the role of PoC Dispatcher for the Dispatch PoC Group (e.g. through role transfer mechanisms).
Application Unique ID	A unique identifier that differentiates XCAP resources accessed by one application from XCAP resources accessed by another application. (Source: [RFC4825])
Application Usage	Detailed information on the interaction of an application with an XCAP Server. (Source: [RFC4825])
Audio	General communication of sound with the exception of PoC Speech.
Chat PoC Group	A persistent PoC Group in which a PoC User individually joins to have a PoC Session with other joined PoC Users, i.e., the establishment of a PoC Session to a Chat PoC Group does not result in other PoC Users being invited. NOTE: A Chat PoC Group is a persistent PoC Group where the <invite-members> element is set to "false" as specified in the [OMA-PoC-Document-Mgmt] "PoC Group".
Chat PoC Group Session	A PoC Session established to a Chat PoC Group.
Controlling PoC Function	A function implemented in a PoC Server, providing centralized PoC Session handling, which includes Media distribution, Talk Burst Control, Media Burst Control, policy enforcement for participation in the PoC Group Sessions, and the Participant information.
Dispatch PoC Group	A Pre-arranged PoC Group in which one member is assigned the role of PoC Dispatcher and the other member(s) are assigned the role of PoC Fleet Members.
Dispatch PoC Session	The PoC Session of a Dispatch PoC Group, or a subset of the Dispatch PoC Group, in which the 1-many-1 communication method is used.
Global Document	A document placed under the XCAP Global Tree that applies to all users of that application usage.
Global Tree	A URI that represents the parent for all Global Documents for a particular application usage within a particular XCAP Root.
Group	A predefined set of Users together with its policies and attributes. A Group is identified by a SIP URI.
Group Advertisement	A feature that provides the capability to inform other PoC Users of the existence of a PoC Group.
Group Usage List	A list of group names or service URIs that are known by the XDM Client
Media	Forms of information that are exchanged between Participants. Media may come in different forms, which are referred to as Media Types.
Media Burst Control	Media Burst Control is a control mechanism that arbitrates requests from the PoC Clients, for the right to send Media and Multimedia.
Media Burst Control Schemes	Way of using Media Burst Control according to predefined rules and procedures.

Media Type	Media Types share a characteristic of human perception. Media Types are either realtime or non-realtime, like: <ul style="list-style-type: none"> • PoC Speech • Audio (e.g. music) • Video • Discrete Media (e.g. still image, formatted and non-formatted text, file)
Multimedia	Multimedia is the simultaneous existence of multiple Media Types like <ul style="list-style-type: none"> • audiovisual • video plus subtitles <p>Multimedia from a single source that involves real-time Media Types are assumed to be synchronized.</p>
NW PoC Box	A PoC functional entity in the PoC Network where PoC Session Data and PoC Session Control Data can be stored
Participant	A Participant is a PoC User in a PoC Session.
Participant Information	Information about the PoC Session and its Participants.
Participating PoC Function	A function implemented in a PoC Server, which provides PoC Session handling, which includes policy enforcement for incoming PoC Sessions and relays Talk Burst Control and Media Burst Control messages between the PoC Client and the PoC Server performing the Controlling PoC Function. The Participating PoC Function may also relay RTP Media between the PoC Client and the PoC Server performing the Controlling PoC Function.
PoC Box	A PoC functional entity where PoC Session Data and PoC Session Control Data can be stored. It can be a NW PoC Box or a UE PoC Box.
PoC Client	A functional entity that resides on the User Equipment that supports the PoC service.
PoC Dispatcher	The Participant in a Dispatch PoC Session that sends Media to all PoC Fleet Members and that receives Media from any PoC Fleet Member. <p style="margin-left: 40px;">NOTE: The PoC Dispatcher is an enhancement to the PoC 1 Distinguished Participant.</p>
PoC Fleet Member	A Participant in a Dispatch PoC Session that is only able to send Media to the PoC Dispatcher, and that likewise is only able to receive Media from the PoC Dispatcher. <p style="margin-left: 40px;">NOTE: PoC Fleet Member is the same as Ordinary Participant in PoC 1.</p>
PoC Group	A Group supporting the PoC service. PoC User uses PoC Groups e.g. to establish PoC Group Sessions.
PoC Group Identity	A SIP URI identifying a Pre-arranged PoC Group or a Chat PoC Group. A PoC Group Identity is used by the PoC Client e.g. to establish PoC Group Sessions to the Pre-arranged PoC Groups and Chat PoC Groups.
PoC Group Name	Indicates the name of the PoC Group that can be presented to the PoC User.
PoC Group Session	A Pre-arranged PoC Group Session, Ad-hoc PoC Group Session or Chat PoC Group Session.
PoC Network	Network comprising of a SIP/IP Core and PoC Server(s), which provide PoC capabilities to the associated PoC capable User Equipments which are compliant with OMA PoC Service Enabler specifications.
PoC Session	A PoC Session is a SIP Session established by the procedures of this specification. This specification supports the following types of PoC Sessions: 1-1 PoC Session, Ad-hoc PoC Group Session, Pre-arranged PoC Group Session, or Chat PoC Group Session.
PoC Session Control Data	Information about PoC Session Data e.g. time and date, PoC Session initiator.
PoC Session Data	Media Bursts and Media Burst Control information exchanged during a PoC Session e.g. Video frames, an image or Talk Burst.
PoC Speech	Communication of speech as defined by PoC version 1.0.

PoC Subscriber	Is one whose service subscription includes the PoC service. A PoC Subscriber can be the same person as a PoC User. NOTE: In [OMA-PoC-RD-V1.0] the term "PoC Subscriber" is sometimes used to mean the same as term "PoC User" in [OMA-PoC-AD], [OMA-PoC-CP] and [OMA-PoC-UP].
PoC User	A User of the PoC service. A PoC User can be the same person as a PoC Subscriber. A PoC User uses the PoC features through the User Equipment.
PoC User Access Policy	A rule-based plan of actions that defines the criteria for access to the PoC User. The plan describes the expected pattern of behaviour of the PoC User at access attempts from other PoC Users.
Pre-arranged PoC Group	A persistent PoC Group. The establishment of a PoC Session to a Pre-arranged PoC Group results in the members being invited. NOTE: A Pre-arranged PoC Group is a persistent PoC Group, where the <invite-members> element is set to "true".
Pre-arranged PoC Group Session	A PoC Session established by a PoC User to a Pre-arranged PoC Group.
RTP Media	The Media carried in an RTP payload.
SIP Session	A SIP dialog. From [RFC3261], a SIP dialog is defined as follows: A dialog is a peer-to-peer SIP relationship between two UAs that persists for some time. A dialog is established by SIP messages, such as a 2xx response to an INVITE request. A dialog is identified by a call identifier, local tag, and a remote tag. A dialog was formerly known as a call leg in [RFC2543].
SIP URI	From RFC 3261: "A SIP or SIPS URI identifies a communications resource" and "follows the guidelines in RFC 2396 [5]". PoC uses SIP URIs to identify PoC Clients, PoC Servers, and PoC Sessions, resource lists that point to URI Lists, etc.
Talk Burst	A flow of PoC Speech from a PoC Client having the permission to send PoC Speech as specified in PoC version 1.0.
Talk Burst Control	A control mechanism that arbitrates requests from the PoC Clients for the right to send PoC Speech as specified in [OMA PoC V1.0].
UE PoC Box	A functional entity co-located with the PoC Client in the User Equipment where PoC Session Data and PoC Session Control Data can be stored.
URI List	A list of URIs.
User	Any entity that uses the described features through the User Equipment.
User Equipment	A hardware device that supports a PoC Client e.g., a wireless phone.
Video	Communication of live-streamed pictures without any Audio component.
XCAP Application Usage	Detailed information on the interaction of an XCAP Client with an XCAP Server. (Source: [RFC4825])
XCAP Client	An HTTP client that understands how to follow the naming and validation constraints defined in this specification.
XCAP Root	A context that includes all of the documents across all application usages and users that are managed by a server.
XCAP Server	An HTTP server that understands how to follow the naming and validation constraints defined in this specification.

3.3 Abbreviations

AUID	Application Unique ID
HTTP	Hypertext Transfer Protocol
MIME	Multipurpose Internet Mail Extensions
NW	Network
OMA	Open Mobile Alliance

PoC	Push to talk over Cellular
UE	User Equipment
URI	Uniform Resource Identifier
XCAP	XML Configuration Access Protocol
XDM	XML Document Management
XDMC	XDM Client
XDMS	XDM Server
XML	Extensible Markup Language
XUI	XCAP User Identifier

4. Introduction

This specification specifies the usage of documents used by the PoC Enabler. The described PoC specific usages include the usage of the XML schemas and Application Usages for Group documents, User Access Policy documents and Group Usage List documents. XDM Application Usages include that for PoC Groups and PoC User Access Policy, which are specified in details in [SHARED_POLICY_XDM] as Shared User Access Policy and in [SHARED_GROUP_XDM] as Shared Group. Additionally, this specification describes the usage of the XML schema for the Group Advertisement, which is specified in [SHARED_GROUP_XDM] as Extended Group Advertisement. This specification also defines the PoC specific deviations and extensions to the XML schemas for the Group, the User Access Policy, Group Usage List, and Extended Group Advertisement documents.

XDM 2.0 Client uses the AUIDs and the protocol specified in PoCv1.0 XDM specification, if the PoC Enabler Release 1 is indicated by the provisioning.

In addition to above the backward compatibility is ensured by appropriate configuration of the Aggregation Proxy and the special handling of PoCv1.0 level requests in the Shared XDMS.

NOTE: Usage of all PoCv2.0 functionalities requires XDMv2.0 functionalities.

5. PoC XDM Application Usages

5.1 PoC Group

NOTE: In PoC 2.0 the Group definitions are described in the [SHARED_GROUP_XDM]. PoC Groups are still available for network elements and XDM Clients, that are compliant with PoC 1.0 Enabler Release by using the AUID specified in the PoC 1.0 as specified in [PoC XDM 1.0].

PoC Group is described in the [SHARED_GROUP_XDM] "*Group*". The use of the elements of PoC Groups is described in [OMA-PoC-CP].

5.1.1 Structure

The general Group structure is described in the [SHARED_GROUP_XDM] "*Structure*" with the PoC Enabler specific clarifications and deviations specified in this subclause and the additional, PoC specific structure, in the subclause 6.2.1 "*Structure*".

The following elements and attributes of the <list-service> element together with their usage are used by PoC Enabler as specified in [SHARED_GROUP_XDM]:

- a) a "uri" attribute containing the PoC Group Identity;
- b) other attributes from any other namespaces for the purpose of extensibility;
- c) a <display-name> element containing a PoC Group Name;
- d) a <list> element containing the PoC Group Members;
- e) an <invite-members> element;
- f) a <max-participant-count> element containing a maximum number of allowed PoC Users in a Pre-arranged PoC Group Session and a Chat PoC Group Session;
- g) a <ruleset> element representing the authorization policy associated with this PoC Group;
- h) a <supported-services> element containing supported services of the PoC Group;
- i) a <qoe> element indicating the Quality of Experience Profile assigned to the PoC Group.

NOTE: When the PoC Group is created, the <automatic-group-advertisement> element can be used in the Group definition, as defined in the [SHARED_GROUP_XDM], if Group Advertisement is desired to be sent automatically to the PoC Group members as specified in the [SHARED_GROUP_XDM].

The following elements and attributes of the <list> element together with their usage are used by PoC Enabler as specified in [SHARED_GROUP_XDM]:

- a) an <entry> element;
- b) an <external> element.

The following elements and attributes of the <ruleset> element together with their usage are used by PoC Enabler as specified in [SHARED_GROUP_XDM]:

- a) an <rule> element.

The following elements and attributes of the <conditions> child element of any <rule> element together with their usage are used by PoC Enabler as specified in [SHARED_GROUP_XDM]:

- a) the <identity> element;

- b) the <external-list> element;
- c) the <other-identity> element;
- d) the <is-list-member> element.

The following elements and attributes of the <actions> child element of any <rule> element together with their usage are used by PoC Enabler as specified in [SHARED_GROUP_XDM]:

- a) the <allow-conference-state> element;
- b) the <allow-invite-users-dynamically> element;
- c) the <join-handling> element;
- d) the <allow-initiate-conference> element;
- e) the <allow-anonymity> element;
- f) the <is-key-participant> element;
- g) the <allow-subconf> element;
- h) the <allow-media-handling> element;
- i) the <remove-media-handling> element;
- j) the <allow-expelling> element;
- k) the <block-group-advertisement-sending> element.

5.1.2 Application Unique ID

Application Unique ID is described in the [SHARED_GROUP_XDM] "*Application Unique ID*".

5.1.3 XML schema

XML schema is described in the [SHARED_GROUP_XDM] "*XML Schema*". The PoC specific XML schema extensions are described in subclause 6.2.2 "*XML schema*".

5.1.4 Default namespace

Default namespace is described in the [SHARED_GROUP_XDM] "*Default Namespace*".

5.1.5 MIME type

MIME type is described in the [SHARED_GROUP_XDM] "*MIME Type*".

5.1.6 Validation constraints

Validation constraints are described in the [SHARED_GROUP_XDM] "*Validation constraints*".

5.1.7 Data semantics

Data semantics are described in the [SHARED_GROUP_XDM] "*Data Semantics*" with the PoC specific clarifications specified in this subclause. The data semantics for PoC specific extensions are described in subclause 6.2.4 "*Data semantics*".

A group data is applicable to PoC service only if the condition element <supported-services> is present, and

- 1. the child element <service> includes the "enabler" attribute value "poc"; or,

- 2. the child element <all-services-except> does not include a <service> child element with "enabler" attribute value "poc".

The <group-media> element, which is a child element of <service>:

The sub-element <full-duplex> is not applicable for Audio and Video in PoC Service.

Group documents including elements with "must-understand" attribute and not used by PoC Enabler SHALL be regarded as not applicable to PoC service.

The <invite-members> element :

"true" represents the Pre-arranged PoC Group.

"false" represents the Chat PoC Group. This value is used when the element is not present.

A <group-media> element with a list of media elements is used to specify allowed media types. List of possible media elements defined in PoC are:

- 1) The <message-session> media element indicating session based messaging as defined in [RFC4975];
- 2) The <file-transfer> media element indicating file transfer as defined in [OMA_IM_TS_Endorsement];
- 3) The <audio> media element indicating a streaming media type as defined in [RFC3840];
- 4) The <video> media element indicating a streaming media type as defined in [RFC3840];
- 5) The <poc-speech> media element indicating a PoC speech media type as defined in [OMA-PoC-CP];
- 6) The <group-advertisement> media element indicating a group advertisement as defined in [SHARED_GROUP_XDM] "*Extended Group Advertisements*".

NOTE: All other media elements not listed in the list above are ignored by the PoC Server.

5.1.8 Naming conventions

Naming conventions are described in the [SHARED_GROUP_XDM] "*Naming conventions*".

5.1.9 Global Documents

Global Documents are described in the [SHARED_GROUP_XDM] "*Global Documents*".

5.1.10 Resource interdependencies

Resource interdependencies are described in the [SHARED_GROUP_XDM] "*Resource interdependencies*".

5.1.11 Authorization policies

Authorization policies are described in the [SHARED_GROUP_XDM] "*Authorization policies*".

5.2 PoC User Access Policy

NOTE: In PoC 2.0 the User Access Policy is described in the [SHARED_POLICY_XDM]. PoC User Access Policies are still available for network elements and XDM Clients, that are compliant with PoC 1.0 Enabler Release by using the AUID specified in the PoC 1.0 as specified in [PoC XDM 1.0].

PoC User Access Policy is described in the [SHARED_POLICY_XDM] "*Shared User Access Policy*". The use of the elements of PoC User Access Policy is described in [OMA-PoC-CP].

5.2.1 Structure

The general User Access Policy structure is described in the [SHARED_POLICY_XDM] "*Structure*" with the PoC Enabler specific clarifications and deviations specified in this subclause and the additional, PoC specific structure in the subclause 6.3.1 "*Structure*".

The following elements and attributes of the <rule> element together with their usage are used by PoC Enabler as specified in [SHARED_POLICY_XDM]:

- a) the <conditions> element;
- b) the <actions> element.

NOTE 1: This specification does not define any value for the <transformations> element defined as a child of the <rule> element in [RFC4745]. This means that, if present, the PoC Server ignores this element.

The following elements and attributes of the <conditions> element together with their usage are used by PoC Enabler as specified in [SHARED_POLICY_XDM]:

- a) the <identity> element;
- b) the <external-list> element;
- c) the <other-identity> element;

NOTE 2: This specification does not define any value for those elements defined as a part of the <conditions> element in [RFC4745] (e.g., <sphere>, <validity>), but which are not explicitly identified in the list above. This means that, if present, the PoC Server ignores such elements.

- d) the <anonymous-request> element;
- e) the <media-list> element;
- f) the <service-list> element, as defined in [XDMSPEC] "*Common Extensions*".

The following elements and attributes of the <actions> element together with their usage are used by PoC Enabler as specified in [SHARED_POLICY_XDM]:

- a) the <allow-auto-answermode> element;
- b) the <allow-reject-invite> element;
- c) the <allow-offline-storage> element;
- d) the <allow-manual-answer-override> element.

5.2.2 Application Unique ID

Application Unique ID is described in the [SHARED_POLICY_XDM] "*Application Unique ID*".

5.2.3 XML schema

XML schema is described in the [SHARED_POLICY_XDM] "*XML Schema*". The PoC specific XML schema extensions are described in subclause 6.3.2 "*XML schema*".

5.2.4 Default namespace

Default namespace is described in the [SHARED_POLICY_XDM] "*Default Namespace*".

5.2.5 MIME type

MIME type is described in the [SHARED_POLICY_XDM] "*MIME Type*".

5.2.6 Validation constraints

Validation constraints are described in the [SHARED_POLICY_XDM] "*Validation constraints*".

5.2.7 Data semantics

Data semantics are described in the [SHARED_POLICY_XDM] "*Data Semantics*" with the PoC specific clarifications specified in this subclause. The data semantics for PoC specific extensions are described in subclause 6.3.4 "*Data semantics*".

An authorization rule is applicable to PoC service only if the condition element <service-list> is not present, or if present the child element <service> includes the "enabler" attribute value "poc" or the child element <all-services-except> does not include a <service> child element with "enabler" attribute value "poc".

The sub-element <full-duplex> is not applicable for Audio and Video in the PoC service.

The action <allow-reject-invite> element value "true" is not applicable for the <media-list> element in the PoC service.

5.2.8 Naming conventions

Naming conventions are described in the [SHARED_POLICY_XDM] "*Naming conventions*".

5.2.9 Global Documents

Global Documents are described in the [SHARED_POLICY_XDM] "*Global Documents*".

5.2.10 Resource interdependencies

Resource interdependencies are described in the [SHARED_POLICY_XDM] "*Resource interdependencies*".

5.2.11 Authorization policies

Authorization policies are described in the [SHARED_POLICY_XDM] "*Authorization policies*".

6. PoC extensions to Shared XDM Application Usages

6.1 Group Usage List

6.1.1 Structure

A PoC specific URI usage SHALL be used in a Group Usage List stored in the Shared List XDMS.

The PoC URI usage, <pocusage> element, is defined to substitute <uriusage> element and is used within the <uriusages> element as specified in [SHARED_LIST_XDM].

6.1.2 Application Unique ID

Application Unique ID is described in the [SHARED_LIST_XDM] "*Group Usage List*".

6.1.3 XML schema

The <pocusage> element SHALL conform to the XML schema described in [XSD-1_POCUSAGE].

6.1.4 Validation constraints

None.

6.1.5 Data semantics

The <pocusage> element, if present in any <uriusages> element, SHALL indicate the type of PoC Group URI. The possible values are:

- "chat" the PoC Group URI is a Chat PoC Group.
- "prearranged" the PoC Group URI is a Pre-arranged PoC Group.

6.2 PoC extensions to Group

6.2.1 Structure

In addition to the child elements that the <actions> child element of any <rule> element MAY include according to [SHARED_GROUP_XDM], the <actions> child element of any <rule> element MAY include the following PoC Specific child elements:

- a) the <allow-dispatch> element:
 - SHALL include an "allow" attribute indicating whether the PoC User is allowed to adopt the PoC Dispatcher role;
 - MAY include an <allow-dispatcher-role-transfer> element indicating whether the PoC User is allowed to transfer the PoC Dispatcher role;
- b) the <mbc_scheme> element.

6.2.2 XML schema

The <allow-dispatch>, <allow-dispatcher-role-transfer> and <mbc_scheme> elements SHALL conform to the XML schema which namespace name is "urn:oma:xml:poc:poc2.0-shared-group-ext" and is described in [XSD-2_SHARED_GROUP_EXT].

The "allow" attribute SHALL conform to the XML schema described in [XSD_XDM2_EXT].

6.2.3 Validation constraints

The Group actions SHALL conform to the XML schema described in subclause 6.2.2 "XML schema", with the clarifications given in this subclause.

If the XDMC adds in the <actions> child element of a <rule> element an <allow-dispatch> element with the "allow" attribute set to the value "false" and the child element <allow-dispatcher-role-transfer> set to the value "true", the Shared Group XDMS SHALL return an HTTP "409 Conflict" including the error element <constraint-failure>. If included, the "phrase" attribute SHOULD be set to "Conflict in PoC Dispatcher actions".

6.2.4 Data semantics

The <allow-dispatch> element SHALL be used to indicate whether the identity matching this rule is allowed to perform the PoC Dispatcher role related actions, as defined in [OMA-PoC-SD].

The possible values for the "allow" attribute are:

- "false" instructs the PoC Server performing the Controlling PoC Function to deny the PoC User to adopt the PoC Dispatcher role. This SHALL be the default value taken in the absence of the element.
- "true" instructs the PoC Server performing the Controlling PoC Function to allow the PoC User to adopt the PoC Dispatcher role.

The absence of the element <allow-dispatch> is equal as if there is <allow-dispatch> element with "allow" attribute equal "false".

If multiple rules with the action <allow-dispatch> apply for an identity, the identity is allowed to adopt the PoC Dispatcher role if the attribute "allow" in at least one of the actions equals "true".

The <allow-dispatcher-role-transfer> element SHALL be used to indicate that the identity matching this rule is allowed to request the transfer of an Active PoC Dispatcher role to another Participant, as defined in [OMA-PoC-CP]. The possible values are:

- "false" instructs the PoC Server performing the Controlling PoC Function to block the role transfer request. This SHALL be the default value taken in the absence of the element.
- "true" instructs the PoC Server performing the Controlling PoC Function to accept the role transfer request.

The <mbc_scheme> "action" SHALL be used to indicate that the identity matching this rule is allowed to initiate the PoC Group Session with the indicated Media Burst Control Scheme. The possible values are of string type limited to 12 characters.

NOTE: Typically the standardised Media Burst Control procedure is used if <mbc_scheme> is not listed.

If multiple rules with the action <mbc_scheme> apply for an identity, the identity is allowed to initiate the PoC Group Session with any of the indicated Media Burst Control Schemes.

6.3 PoC extensions to User Access Policy

6.3.1 Structure

In addition to the child elements that the <actions> child element of any <rule> element MAY include according to [SHARED_POLICY_XDM], the <actions> child element of any <rule> element MAY include the following PoC Specific child elements:

- a) the <pocbox-type> element, as defined in sub-clauses 6.3.2 "XML schema" and 6.3.4 "Data semantics".

6.3.2 XML schema

The <pocbox-type> element SHALL conform to the XML schema described in [XSD-2_POCRULES].

The XML schema described in [XSD-2_POCRULES] SHALL be used as an extension to the XML schema described in [RFC4745], if any of the following functionalities are supported:

- a) the PoC Box function.

6.3.3 Validation constraints

None.

6.3.4 Data semantics

The <pocbox-type> element indicates which type of PoC Box will be connected when the incoming PoC Session invitation is routed to a PoC Box. This element has one of the following two values, whose use is described in [OMA-PoC-CP]. The value is of an enumerated integer type:

"nwpocbox" instructs the NW PoC Box to be connected. This is the lowest value for this action, and also the value used when no match happens, according to [RFC4745]. This value is assigned the numeric value of 0.

"uepocbox" instructs the UE PoC Box to be connected. This value is assigned the numeric value of 1.

7. Group Advertisement

Group Advertisement is described in the [SHARED_GROUP_XDM] "*Extended Group Advertisement*". The use of the Group Advertisement is described in [OMA-PoC-CP].

7.1 Structure

The general Group Advertisement structure is described in the [SHARED_GROUP_XDM] "*Structure and Data Semantics*" with the PoC Enabler specific clarifications and deviations specified in this subclause and the additional, PoC specific structure, in the subclause 8.1 "*Structure*".

The following elements and attributes of the <group-advertisement> element together with their usage are used by PoC Enabler as specified in [SHARED_GROUP_XDM]:

- a) the <group> element;

NOTE 1: In PoC service only one <group> element is sent in a Group Advertisement.

- b) the <note> element.

The following elements and attributes of the <group> element together with their usage are used by PoC Enabler as specified in [SHARED_GROUP_XDM]:

- a) the "type" attribute indicating the type of the PoC Group;

NOTE 2: In PoC service only the values of "dialed-in" and "dialed-out" are used.

- b) the <uri> element with the value set to the PoC Group Identity of the PoC Group;
- c) the <display-name> element with the value set to PoC Group Name of the PoC Group;
- d) the <supported-services> element with the value indicating at least usage for the PoC Enabler;
- e) any other elements or attributes from any other namespaces for the purposes of extensibility.

NOTE 3: The <supported services> element can also indicate usage by other enablers (e.g. im) as specified in [SHARED_GROUP_XDM] "*Extended Group Advertisement*".

NOTE 4: The <supported services> element can also indicate usage by other Enablers (e.g. IM) as specified in [SHARED_GROUP_XDM] "*Extended Group Advertisement*".

7.2 XML schema

XML schema is described in the [SHARED_GROUP_XDM] "*XML Schema*". The PoC specific XML schema extensions are described in subclause 8.2 "*XML schema*".

7.3 MIME type

MIME type is described in the [SHARED_GROUP_XDM] "*MIME Type*".

7.4 Validation constraints

None.

7.5 Data semantics

Data semantics are described in the [SHARED_GROUP_XDM] "*Structure and Data Semantics*" with the PoC specific clarifications specified in this subclause. The data semantics for PoC specific extensions are described in subclause 8.4 "*Data semantics*".

The "type" attribute SHALL include one of the following values:

"dialed-in" in the case of a Chat PoC Group;

"dialed-out" in case of a Pre-arranged PoC Group.

8. PoC extensions to Group Advertisement

8.1 Structure

In addition to the child elements and attributes that the <group> child element of any <group-advertisement> element MAY include according to [SHARED_GROUP_XDM], the <group> child element of any <group-advertisement> element MAY include the following PoC Specific child elements and attributes:

- a) the "dispatch" attribute, as defined in sub-clauses 8.24 "XML schema" and 8.4 "Data semantics".

8.2 XML schema

The "dispatch" attribute SHALL conform to the XML schema described in [XSD-2-POCDISPATCH].

8.3 Validation constraints

None.

8.4 Data semantics

The "dispatch" attribute indicates whether or not the PoC Group is a Dispatch PoC Group.

The "dispatch" attribute SHALL include one of the following values:

- | | |
|---------|--|
| "true" | the PoC Group is a Dispatch PoC Group; |
| "false" | the PoC Group is not a Dispatch PoC Group. |

Appendix A. Change History (Informative)

A.1 Approved Version History

Reference	Date	Description
n/a	n/a	No prior version

A.2 Draft/Candidate Version 2.0 History

Document Identifier	Date	Sections	Description
Draft versions: OMA-TS-PoC_XDM-V2_0	19 May 2006	All	New base line created using the OMA-TS-PoC_XDM-V1_0-20060519-C as base.
	25 May 2006	All	New base line created using the OMA-TS-PoC_XDM-V1_0-20060519-D as as base. Creating an Appendix X with preliminary text.
	24 Jul 2006	All	Aligned with the approved PoC XDM V1.0. The new baseline for this documents is now: OMA-TS-PoC_XDM-V1_0-20060609-A.
	25 Jul 2006	2, 3.2, 4, 5, 6.1.1, Appendix A, Appendix B	Incorporated: OMA-POC-POCv2-2006-0500R03-CR_XDM_a_step_further OMA-POC-POCv2-2006-0501R01-PoC-XDM-Shared-List-Usage OMA-POC-POCv2-2006-0502-PoC-XDM-Removal-of-Services-from-Examples OMA-POC-POCv2-2006-0504-PoC-XDM-Drafts-Update
	30 Oct 2006	5.2.1	Incorporated: OMA-POC-POCv2-2006-0887-CR-PoC XDMS reference corrections
	20 Nov 2006	All	Incorporated: OMA-POC-POCv2-2006-1137R01-CR_CR_PoC_XDM_SCR_tables OMA-POC-POCv2-2006-1132-CR_XDM_XML_schema_cleaning OMA-POC-POCv2-2006-1241-CR_PoC_XDM_References_Cleanup OMA-POC-POCv2-2006-1243-CR_PoC_XDM_Editor_Cleanup
	06 Dec 2006	Appendix C	History table modified to remove the PoCV1.0 -C documents.
	20 Dec 2006	All	Removed Appendix X and moved its contents to normative sections of the TS. Appendix A became History section. Added Appendix X for PoC User Access Policy Incorporated: OMA-POC-POCv2-2006-1431R03-CR_PoCXDMS_shared_policy OMA-POC-POCv2-2006-1271R01-CR-PoC XDMS media specific access rules – was 0790 OMA-POC-POCv2-2006-1199R02-CR_PoC_XDM_IPII_access_rule OMA-POC-POCv2-2006-1304R01-CR_PoC_XDM_PoC_Box_criteria_access_rules OMA-POC-POCv2-2006-1438R02-CR_XDM_Include_Dispatcher
	26 Feb 2007	All	Incorporated: OMA-POC-POCv2-2007-0053-CR_PoC_XDM_Editorial_Cleanup OMA-POC-POCv2-2007-0003-CR-PoC XDMS editorials
	14 Mar 2007	All	Incorporated: OMA-POC-POCv2-2007-0018R02-CR_PoC_XDMS_F49_64_67_110_correct_5.2 OMA-POC-POCv2-2007-0020R03-CR_XDM_PoC_extent_of_MBC_Scheme OMA-POC-POCv2-2007-0301R01-CR_PoCXDMS_closed_F117_etc OMA-POC-POCv2-2007-0386R01-CR_XDM_F77_F78_F79 OMA-POC-POCv2-2007-0395R01-CR_PoC_XDMS_F11_added_definitions_in_3.2 OMA-POC-POCv2-2007-0396-CR_PoC_XDMS_F16_interpretation_of_PoC_abbreviation OMA-POC-POCv2-2007-0397-CR_PoC_XDMS_F2_and_F42_F60_F61_F73_F76

Document Identifier	Date	Sections	Description
			OMA-POC-POCv2-2007-0399- CR_PoC_XDMS_my_T_comments_in_appendix_B
	25 Apr 2007	All	Incorporated: OMA-POC-POCv2-2007-0010R02-CR-PoC XDMS solve EN in 5.1 OMA-POC-POCv2-2007-0011R05- CR_PoC_XDMS_F29_30_32_34_35_36_38_39_40_41_43_solve_ENs_in_5.1.x OMA-POC-POCv2-2007-0398R04- CR_PoC_XDMS_my_comments_in_appendix_H OMA-POC-POCv2-2007-0517R01-CR_POCXDMS_close_F9_in_3.2 OMA-POC-POCv2-2007-0543R01- CR_XDM_Group_Actions_comments_in_contribution_0542 OMA-POC-POCv2-2007-0575R01-CR_XDM_Fxxx OMA-POC-POCv2-2007-0684R03- CR_PoC_XDMS_F105_127_App_H
Draft versions: OMA-TS-PoC_Document_Management-V2_0	25 Apr 2007	Title and Appendix A	Incorporated: OMA-POC-POCv2-2007-0400- CR_PoC_XDM_TS_change_to_Document_Management_TS
	18 May 2007	All	Incorporated: OMA-POC-POCv2-2007-0518R01-CR_POCXDMS_close_F110_in_H OMA-POC-POCv2-2007-0608R01- CR_XDM_Answer_Mode_CONRR_D65 OMA-POC-POCv2-2007-0660- CR_XDM_CONRR_F98_appendix_C_deleted OMA-POC-POCv2-2007-0709R02- CR_DM_F2_F22_F103_adjusting_to_XDM_changes OMA-POC-POCv2-2007-0759- CR_PoC_XDMS_F128_consistency_with_PoC_1.0 OMA-POC-POCv2-2007-0799R02- CR_XDM_F130_Change_in_Dispatcher_actions OMA-POC-POCv2-2007-0761-CR_PoC_XDMS_expelling.
	29 May 2007	1, 4, 5.1, 5.2	Incorporated: OMA-POC-POCv2-2007-0801R02-CR_DM_Alignment_to_TS_Role
	16 Jun 2007	All	Incorporated: OMA-POC-POCv2-2007-0864- CR_PoC_Document_Management_CONRR_Fxxx OMA-POC-POCv2-2007-0822-CR_DM_IPII_Access_Rule_removal OMA-POC-POCv2-2007-0889- CR_DM_F132_TS_Role_Alignment_5.2 OMA-POC-POCv2-2007-0890R02- CR_DM_AI063_Move_GA_to_DMs OMA-POC-POCv2-2007-0902R01- CR_DM_supporting_solution_to_D273 OMA-POC-POCv2-2007-0908- CR_PoC_Doc_Mgmt_Upadting_the_XCAP_references OMA-POC-POCv2-2007-0910-CR_DM_C196_Include_MAO OMA-POC-POCv2-2007-0943R02- CR_DM_F2_more_adjustments_to_XDM_changes OMA-POC-POCv2-2007-0959-CR_DocMgt_allow_media_handling OMA-POC-POCv2-2007-0913R04-CR_CP_D813_816_re_resolution OMA-POC-POCv2-2007-0888R02- CR_AD_ETR_SD_CP_UP_IM_IW_ID_DM_Alignment_of_Definitions OMA-POC-POCv2-2007-0981- CR_XDM_Supported_Services_in_Group_Ad
	21 Aug 2007	2.1,5.2.7, 7.1, Appendix B	Incorporated: OMA-POC-POCv2-2007-1004- CR_DM_F2_adjustments_to_xdm_extensions_sup_file OMA-POC-POCv2-2007-1016-CR_DocMgt_F107,F108_solving OMA-POC-POCv2-2007-0981- CR_XDM_Supported_Services_in_Group_Ad

Document Identifier	Date	Sections	Description
			OMA-POC-POCv2-2007-1014R02-CR_Doc_Mgmt_alignment OMA-POC-POCv2-2007-1041- CR_DM_Closing_All_Remaining_Comments OMA-POC-POCv2-2007-0999R02- CR_AD_ETR_SD_CP_UP_IM_IW_ID_DM_Definitions_Alignment_E 22
	22 Aug 2007	5.1.7, 5.2.7,	Incorporated: OMA-POC-POCv2-2007-1004- CR_DM_F2_adjustments_to_xdm_extensions_sup_file
Candidate version: OMA-TS-PoC_Document_Management- V2_0	02 Oct 2007	All	Status changed to Candidate by TP TP ref # OMA-TP-2007-0343R01- INP_POC_V2_0_ERP_for_Candidate_Approval General editorial clean-up of styles for publication.
Draft version: OMA-TS-PoC_Document_Management- V2_0	20 Dec 2007	5.2.1	Inclusion of CR: OMA-POC-POCv2-2007-1175
Candidate version: OMA-TS-PoC_Document_Management- V2_0	26 Feb 2008	n/a	Status changed to Candidate by TP TP ref # OMA-TP-2008-0098- INP_Push_to_talk_over_Cellular_V2_0_ERP_for_Notification
Draft version: OMA-TS-PoC_Document_Management- V2_0	09 Jul 2009	2.1, 5.1.7	Incorporated CRs: OMA-MWG-POCv2-2009-0025- CR_DM_mirror_to_V2.1_CR0235_in_5.1.7 OMA-MWG-POCv2-2009-0027- CR_DM_adding_list_of_allowed_media_types
Candidate version: OMA-TS-PoC_Document_Management- V2_0	22 Sep 2009	n/a	Status changed to Candidate by TP TP ref # OMA-TP-2009-0397R02-INP_POCv2_0_for_notification

Appendix B. Static Conformance Requirements (Normative)

The SCRs defined in the following tables include SCRs for:

- The PoC XDM Client; and,
- The PoC XDM Server.

The SCRs are defined as described in [OMA_SCR_Rules].

Each SCR table identifies a list of supported features as:

- Item: Identifier for a feature. It MUST be of type ScrItem.
- Function: Short description of the feature.
- Reference: Section(s) of the specification(s) with more details on the feature.
- Requirement: Other features required by this feature, independent of whether those other features are mandatory or optional. The notation in the dependency grammar MUST be used for this column when other features are required, else the column MUST be left empty.

Dependency grammar used in this section is specified in [OMA_SCR_Rules]:

```

TerminalExpression =      ScrReference
                        / NOT TerminalExpression
                        / TerminalExpression LogicalOperator TerminalExpression
                        / "(" TerminalExpression ")"

ScrReference =           ScrItem
                        / ScrGroup

ScrItem =                SpecScrName "-" GroupType "-" DeviceType "-" NumericId "-" Status
                        / SpecScrName "-" DeviceType "-" NumericId "-" Status

ScrGroup =               SpecScrName ":" FeatureType
                        / SpecScrName "-" GroupType "-" DeviceType "-" FeatureType

SpecScrName = 1*Character;
GroupType = 1*Character;
DeviceType = "C" / "S"; C – client, S – server
NumericId = Number Number Number
Status = "M" / "O"; M - Mandatory, O - Optional
LogicalOperator = "AND" / "OR"; AND has higher precedence than OR and OR is inclusive
FeatureType = "MCF" / "OCF" / "MSF" / "OSF";
Character = %x41-5A;

```

The following markers are used below to describe the SCRs:

- PoCv1.0 - SCR Item that is the same in PoCv2.0 as it is in PoCv1.0
- PoCv2.0 - SCR Item that is new in PoCv2.0
- PoCv1.0mod - SCR Item that exists in PoCv1.0, but is modified in PoCv2.0

B.1 PoC Group (XGP)

This subclause describes the SCRs for functions needed to support PoC Groups.

B.1.1 PoC XDM Client

Item	Function	Reference	Requirement
POC_XDM-XGP-C-001-M	XDM Client generating PoC Group documents in conformance with the Group document rules	5.1 [SHARED_GROUP_XDM]: 5.1	XDM_Group-XOP: MCF
POC_XDM-XGP-C-002-M	XDM Client handling of HTTP "409 Conflict" response from the Shared Group XDMS	5.1.6 [SHARED_GROUP_XDM]: 5.1.6	XDM_Group-ERR-C-001-M
POC_XDM-XGP-C-003-O	XDM Client conforming to PoC specific Group extensions: PoC Dispatcher elements and attributes	6.2	
POC_XDM-XGP-C-004-O	XDM Client conforming to PoC specific Group extensions: Media Burst Control Scheme elements and attributes	6.2	

B.2 PoC User Access Policy (XAP)

This subclause describes the SCRs for functions needed to support PoC User Access Policy.

B.2.1 PoC XDM Client

Item	Function	Reference	Requirement
POC_XDM-XAP-C-001-M	XDM Client generating PoC User Access Policy document in conformance with the User Access Policy rules	5.2 [SHARED_POLICY_XDM]: 5.1	XDM_Policy-XOP: OCF
POC_XDM-XAP-C-002-M	XDM Client handling of HTTP "409 Conflict" response from the Shared Policy XDMS	5.2.6 [SHARED_POLICY_XDM]: 5.1.6	XDM_Policy-ERR-C-001-O
POC_XDM-XAP-C-003-M	XDM Client conforming to PoC specific User Access Policy extensions: PoC Box elements and attributes	6.3	

B.3 Group Usage List (XUL)

This subclause describes the SCRs for functions needed to support PoC Group Usage List.

B.3.1 PoC XDM Client

Item	Function	Reference	Requirement
POC_XDM-XUL-C-001-M	XDM Client generating PoC URI List document in conformance with the Group Usage List rules	6.1 [SHARED_LIST_XDMS]: 5.2	XDM_List-XOP: OCF
POC_XDM-XUL-C-002-O	XDM Client handling of HTTP "409 Conflict" response from the Shared List XDMS	[SHARED_LIST_XDMS]:5.2.6	

B.4 PoC Session-unrelated Features (SUF)

This subclause describes the SCRs for functions needed to support PoC Session-unrelated features, including: Group Advertisement.

B.4.1 PoC XDM Client

Item	Function	Reference	Requirement
POC_XDM-SUF-C-001-O	PoC Client generating Group Advertisement document in conformance with the Extended Group Advertisement rules	7 [SHARED_GROUP_XDM]: 7.1	
POC_XDM-SUF-C-002-O	XDM Client conforming to PoC specific Group Advertisement extensions: PoC Dispatcher elements and attributes	8	

Appendix C. XML documents examples

(Informative)

C.1 Group Advertisement document

```
<?xml version="1.0" encoding="UTF-8"?>
<group-advertisement
  xmlns="urn:oma:xml:poc:group-advertisement"
  xmlns:oxe="urn:oma:xml:xdm:xdm2-extensions">

  <note>Ice Hockey Discussion Forum</note>
  <group type="dialed-in">
    <display-name>Ice Hockey Club</display-name>
    <uri>sip:ice-hockey-club@example.com</uri>
    <oxe:group-media>
      <oxe:audio/>
      <oxe:message-session>
        <oxe:half-duplex/>
      <oxe:message-session/>
    <oxe:group-advertisement/>
  </oxe:group-media>
</group>
</group-advertisement>
```

C.2 Group Advertisement document with Dispatch

```
<?xml version="1.0" encoding="UTF-8"?>
<group-advertisement
  xmlns="urn:oma:xml:poc:group-advertisement"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:di="urn:oma:xml:poc:dispatch-ind"
  xsi:schemaLocation="urn:oma:xml:poc:group-advertisement">

  <note>New dispatcher service</note>
  <group type="dialed-out" di:Dispatch="true">
    <display-name>Yellow Taxi Company</display-name>
    <uri>sip:yellow-taxis@example.com</uri>
```

</group>

</group-advertisement>