Client-Server Protocol XML Syntax

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Open Mobile Alliance

OMA-TS-IMPS_CSP_XMLS-V1_3-20070123-A

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Contents

1. Scope

The Instant Messaging and Presence Service (IMPS) includes four primary features:

- Presence

- Instant Messaging

- Groups

- Shared Content

Presence is the key enabling technology for IMPS. It includes client device availability (my phone is on/off, in a call), user status (available, unavailable, in a meeting), location, client device capabilities (voice, text, GPRS, multimedia) and searchable personal statuses such as mood (happy, angry) and hobbies (football, fishing, computing, dancing). Since presence information is personal, it is only made available according to the user's wishes - access control features put the control of the user presence information in the users' hands.

Instant Messaging (IM) is a familiar concept in both the mobile and desktop worlds. Desktop IM clients, two-way SMS and two-way paging are all forms of Instant Messaging. Wireless Village IM will enable interoperable mobile IM in concert with other innovative features to provide an enhanced user experience.

Groups or chat are a fun and familiar concept on the Internet. Both operators and end-users are able to create and manage groups. Users can invite their friends and family to chat in group discussions. Operators can build common interest groups where end-users can meet each other online.

Shared Content allows users and operators to setup their own storage area where they can post pictures, music and other multimedia content while enabling the sharing with other individuals and groups in an IM or chat session.

These features, taken in part or as a whole, provide the basis for innovative new services that build upon a common interoperable framework.

2. References

2.1 Normative References

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[FIPS 180-1]	"Secure Hash Standard", April 1995. URL: http://csrc.nist.gov/publications/fips/fips180-1/fip180-1.pdf
[IOPPROC]	"OMA Interoperability Policy and Process", Version 1.1, Open Mobile Alliance™, OMA-IOP-Process-V1_1, URL: http://www.openmobilealliance.org
[PA]	"Presence Attributes", Version 1.3, Open Mobile Alliance™, OMA-TS-IMPS_PA-V1_3, URL: http://www.openmobilealliance.org
[PA XMLS]	"Presence Attribute XML Syntax", Version 1.3, Open Mobile Alliance™, OMA-TS-IMPS_PA_XMLS-V1_3, URL: http://www.openmobilealliance.org
[RFC822]	"Standard for the Format of ARPA Internet Text Messages", August 1982. URL: http://www.ietf.org/rfc/rfc822.txt
[RFC1321]	"The MD5 Message-Digest Algorithm", April 1992. URL: http://www.ietf.org/rfc/rfc1321.txt
[RFC2045]	"Multipurpose Internet Mail Extensions (MIME) Part one: Format of Internet Message Bodies". Section 6.8 "Base64 Content-Transfer-Encoding". November 1996. URL: http://www.ietf.org/rfc/rfc2045.txt
[RFC2046]	"MIME (Multipurpose Internet Mail Extensions) Part Two: Media Types". Borenstein N., and N. Freed. November 1996. URL: http://www.ietf.org/rfc/rfc2046.txt
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[RFC2396]	"Uniform Resource Identifiers (URI): Generic Syntax", August 1998. URL: http://www.ietf.org/rfc/rfc2396.txt
[RFC2426]	"vCard MIME Directory Profile", September 1998. URL: http://www.ietf.org/rfc/rfc2426.txt
[RFC2445]	"Internet Calendaring and Scheduling Core Object Specification (iCalendar)", November 1998. URL: http://www.ietf.org/rfc/rfc2445.txt
[RFC2778]	"A Model for Presence and Instant Messaging", February 2000. URL: http://www.ietf.org/rfc/rfc2778.txt
[VCAL10]	"vCalendar - The Electronic Calendaring and Scheduling Format", version 1.0, The Internet Mail Consortium (IMC), September 18, 1996. URL: http://www.imc.org/pdi/vcal-10.doc
[VCARD21]	"vCard - The Electronic Business Card", version 2.1,The Internet Mail Consortium (IMC), September 18, 1996, URL: http://www.imc.org/pdi/vcard-21.doc
[WAPMMS]	"Wireless Application Protocol - MMS Encapsulation Protocol, Version 05-Jan-2002", Open Mobile Alliance™, WAP-209-MMSEncapsulation, URL: http://www.openmobilealliance.org
[XML]	"Extensible Markup Language 1.0 (Second Edition)", W3C recommendation, 6-October-2000. URL: http://www.w3c.org/TR/2000/REC-xml-20001006.pdf

2.2　Informative References

[Arch]	"IMPS Architecture", Version 1.3, Open Mobile Alliance™, OMA-AD-IMPS-V1_3, URL: http://www.openmobilealliance.org
[CSP DataType]	"Client-Server Protocol Data Types", Version 1.3, Open Mobile Alliance™, OMA-TS-IMPS_CSP_Data_Types-V1_3, URL: http://www.openmobilealliance.org
[CSP PTS]	"Client-Server Protocol Plain Text Syntax", Version 1.3, Open Mobile Alliance™, OMA-TS-IMPS_CSP_PTS-V1_3, URL: http://www.openmobilealliance.org
[CSP Trans]	"Client-Server Protocol Transport Bindings", Version 1.3, Open Mobile Alliance™, OMA-TS-IMPS_CSP_Transport-V1_3, URL: http://www.openmobilealliance.org
[CSP WBXML]	"Client-Server Protocol Binary XML Definition and Examples", Version 1.3, Open Mobile Alliance™, OMA-TS-IMPS_CSP_WBXML-V1_3, URL: http://www.openmobilealliance.org
[SSP]	"Server-Server Protocol Semantics", Version 1.3, Open Mobile Alliance™, OMA-TS-IMPS_SSP-V1_3, URL: http://www.openmobilealliance.org
[SSP Syntax]	"Server-Server Protocol XML Syntax", Version 1.3, Open Mobile Alliance™, OMA-TS-IMPS_SSP_XMLS-V1_3, URL: http://www.openmobilealliance.org
[SSP Trans]	"Server-Server Protocol Transport Binding", Version 1.3, Open Mobile Alliance™, OMA-TS-IMPS_SSP_Transport-V1_3, URL: http://www.openmobilealliance.org

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" are normative, unless they are explicitly indicated to be informative.

3.2 Definitions

None.

3.3 Abbreviations

OMA   Open Mobile Alliance

SAP   Service Access Point

WV   Wireless Village

4. Introduction

This document describes how XML is utilized to carry IMPS primitives and the information elements within.

The document provides the DTD and the TransactionContent namespace as well as examples of each transaction.

Binary content cannot be included in the XML document directly, because it may invalidate the document. Thus, the binary content MUST be encoded with the BASE64 encoding algorithm, as defined in [RFC2045].

If an optional informational element, or a conditional information element where the condition is false is omitted in the CSP primitive, it SHOULD be omitted from XML representation as well where applicable.

The 'Mode' element MUST be 'Request' in the request primitives and 'Response' in the response primitives.

Each primitive that is sent from the SAP MUST contain the 'Poll' element. The SAP uses the 'Poll' element to indicate that is has something to send. Whenever the 'Poll' element indicates true ('T'), the client MUST send PollingRequest to the SAP. See [CSP] for more information.

Any primitive that is sent from the SAP MAY contain the 'CIR' element. The SAP uses the 'CIR' element to indicate to the client that the CIR channel is not available. When the value of the 'CIR' element is false ('F') it means that the CIR channel is not available, and the client SHOULD re-establish it. See [CSP] for more information.

5. The DTD

```
<!--
IMPS CSP (IMPS-CSP) V1.3 Document Type Definition

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IMPS-CSP is an XML language. Typical usage:
    <?xml version="1.0"?>
    <!DOCTYPE IMPS-CSP PUBLIC "-//OMA//DTD IMPS-CSP 1.3//EN"
              "http://www.openmobilealliance.org/tech/DTD/IMPS-CSP.DTD"
              [<?oma-imps-ver supported-versions="1.3"?>]>
    <WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">

    ……
    </WV-CSP-Message>


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Open Mobile Alliance Ltd. web site at
http://www.openmobilealliance.org/UseAgreement.html
-->
<?xml version="1.0" encoding="UTF-8"?>
<!ELEMENT WV-CSP-Message (Session)>
<!ATTLIST WV-CSP-Message xmlns CDATA #REQUIRED>

<!ELEMENT Session (SessionDescriptor, Transaction+, Poll? , CIR?)>
<!ELEMENT Poll (#PCDATA)>
<!ELEMENT CIR (#PCDATA)>
<!ELEMENT SessionDescriptor (SessionType, SessionID?)>
<!ELEMENT SessionType (#PCDATA)>
<!ELEMENT SessionID (#PCDATA)>

<!ELEMENT Transaction (TransactionDescriptor, TransactionContent, ExtBlock*)>
<!ELEMENT TransactionDescriptor(TransactionMode, TransactionID?, SegmentInfo?)>
<!ELEMENT TransactionMode (#PCDATA)>
<!ELEMENT TransactionID (#PCDATA)>
<!ELEMENT SegmentInfo (SegmentCount, SegmentID)>
<!ELEMENT SegmentCount (#PCDATA)>
<!ELEMENT SegmentID (TransactionID, SegmentReference)>
<!ELEMENT SegmentReference (#PCDATA)>

<!ELEMENT TransactionContent (#PCDATA)>
<!ATTLIST TransactionContent xmlns CDATA #REQUIRED>

<!ELEMENT ExtBlock (#PCDATA)>
<!ATTLIST ExtBlock xmlns CDATA #REQUIRED>

<!ELEMENT WV-CSP-VersionDiscovery-Request (VersionList?, ExtendedData*)>
<!ELEMENT WV-CSP-VersionDiscovery-Response (VersionList?, OtherServer*, ExtendedData*)>

<!ELEMENT VersionList (SessionNSName+, TransactionNSName+, PresenceAttributeNSName*)>
<!ELEMENT SessionNSName (#PCDATA)>
<!ELEMENT TransactionNSName (#PCDATA)>
<!ELEMENT PresenceAttributeNSName (#PCDATA)>
<!ELEMENT OtherServer (URL | MSISDN | (URL, MSISDN))>
<!ELEMENT URL (#PCDATA)>
<!ELEMENT MSISDN (#PCDATA)>
<!ELEMENT ExtendedData (#PCDATA)>
<!ATTLIST ExtendedData xmlns CDATA #REQUIRED>
```

6. The TransactionContent Namespace

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!ELEMENT TransactionContent (
    <!-- Fundamental primitives and transactions -->
    Status |
    Polling-Request |
    Login-Request |
    Login-Response |
    Logout-Request |
    Disconnect |
    KeepAlive-Request |
    KeepAlive-Response |
    GetSPInfo-Request |
    GetSPInfo-Response |
    Service-Request |
    Service-Response |
    ClientCapability-Request |
    ClientCapability-Response |
    GetSegment-Request |
    GetSegment-Response |
    DropSegment-Request |
    <!-- Common primitives and transactions -->
    SystemMessage-Request |
    SystemMessage-User |
    SubscribeNotification-Request |
    UnsubscribeNotification-Request |
    Notification-Request |
    GetPublicProfile-Request |
    GetPublicProfile-Response |
    UpdatePublicProfile-Request |
    Search-Request |
    Search-Response |
    StopSearch-Request |
    Invite-Request |
    Invite-Response |
    InviteUser-Request |
    InviteUser-Response |
    CancelInvite-Request |
    CancelInviteUser-Request |
    GetMap-Request |
    GetMap-Response |
    VerifyID-Request |
    <!-- Presence-related primitives and transactions -->
    GetList-Request |
    GetList-Response |
    CreateList-Request |
    CreateList-Response |
    DeleteList-Request |

<!ELEMENT CreateList-Response (ContactList, ContactListProperties)>
    ListManage-Request |
    ListManage-Response |
    CreateAttributeList-Request |
    DeleteAttributeList-Request |
    GetAttributeList-Request |
    GetAttributeList-Response |
    SubscribePresence-Request |
    UnsubscribePresence-Request |
    PresenceNotification-Request |
    GetWatcherList-Request |
    GetWatcherList-Response |
    GetPresence-Request |
    GetPresence-Response |
    UpdatePresence-Request |
    <!-- Messaging-related primitives and transactions -->
    SendMessage-Request |
    SendMessage-Response |
    SetDeliveryMethod-Request |
    GetMessageList-Request |
    GetMessageList-Response |
    RejectMessage-Request |
    NewMessage |
    MessageDelivered |
    MessageNotification |
    GetMessage-Request |
    GetMessage-Response |
```

```
    DeliveryReport-Request |
    ForwardMessage-Request |
    ForwardMessage-Response |
    ExtendConversation-Request |
    ExtendConversation-Response |
    GetBlockedList-Request |
    GetBlockedList-Response |
    BlockEntity-Request |
    <!-- Group-related primitives and transactions -->
    CreateGroup-Request |
    DeleteGroup-Request |
    JoinGroup-Request |
    JoinGroup-Response |
    LeaveGroup-Request |
    LeaveGroup-Response |
    GetGroupMembers-Request |
    GetGroupMembers-Response |
    GetJoinedUsers-Request |
    GetJoinedUsers-Response |
    AddGroupMembers-Request |
    RemoveGroupMembers-Request |
    MemberAccess-Request |
    GetGroupProps-Request |
    GetGroupProps-Response |
    SetGroupProps-Request |
    RejectList-Request |
    RejectList-Response |
    SubscribeGroupNotice-Request |
    SubscribeGroupNotice-Response |
    GroupChangeNotice |
    <!-- Extention-related primitives and transactions -->
    Extended-Request |
    Extended-Response
)>

<!ELEMENT Status (Result, ClientID?)>
<!ELEMENT Polling-Request EMPTY>
<!ELEMENT Login-Request (
    UserID,
    ClientID,
    ApplicationID?,
    Password?,
    DigestBytes?,
    DigestSchema*,
    SessionID?,
    TimeToLive?,
    SessionCookie,
    SystemMessageResponseList?,
    Functions?,
    CapabilityList?
)>
<!ELEMENT Login-Response (
    UserID?,
    ClientID,
    Password?,
    Result,
    Nonce?,
    DigestSchema?,
    SessionID?,
    KeepAliveTime?,
    CapabilityRequest?,
    Functions?,
    AgreedCapabilityList?
)>
<!ELEMENT Logout-Request EMPTY>
<!ELEMENT Disconnect (Result)>
<!ELEMENT KeepAlive-Request (TimeToLive?)>
<!ELEMENT KeepAlive-Response (Result, KeepAliveTime?)>
<!ELEMENT GetSPInfo-Request (ClientID?)>
<!ELEMENT GetSPInfo-Response (ClientID?, Name, Logo?, Description?, URL?)>
<!ELEMENT Service-Request (Functions?, AllFunctionsRequest)>
<!ELEMENT Service-Response (Functions?, AllFunctions?)>
<!ELEMENT ClientCapability-Request (CapabilityList)>
<!ELEMENT ClientCapability-Response (AgreedCapabilityList)>
<!ELEMENT GetSegment-Request (SegmentID)>
<!ELEMENT GetSegment-Response (SegmentContent)>
<!ELEMENT DropSegment-Request (SegmentID)>
<!ELEMENT SystemMessage-Request (SystemMessageList)>
```

```
<!ELEMENT SystemMessage-User (SystemMessageResponseList)>
<!ELEMENT SubscribeNotification-Request (NotificationTypeList?)>
<!ELEMENT UnsubscribeNotification-Request (NotificationTypeList?)>

<!ELEMENT Notification-Request (
   NotificationType,
   (
       BlockListInUse  | GrantListInUse|
      GroupID |
      ContactListIDList
      InviteID |
      OnlineETEMHandling |
      (PresenceSubList, UserIDList?, ContactListIDList?, DefaultList) |
      SessionPriority |
      UserList | UserIDPair
   )?
)>

<!ELEMENT GetPublicProfile-Request (UserID+)>
<!ELEMENT GetPublicProfile-Response (Result, PublicProfile+)>
<!ELEMENT UpdatePublicProfile-Request (ClearPublicProfile, PublicProfile?)>
<!ELEMENT Search-Request (
   (SearchPairList, AdvancedCriteria?, SearchLimit) |
   (SearchID, SearchIndex)
)>
<!ELEMENT Search-Response (
   SearchID?,
   SearchFindings,
   CompletionFlag,
   SearchIndex?,
   SearchResult?
)>
<!ELEMENT StopSearch-Request (SearchID)>
<!ELEMENT Invite-Request (
   InviteID,
   InviteType,
   Sender,
   Recipient,
   ApplicationID?,
   GroupID?,
   PresenceSubList?,
   URLList?,
   InviteNote?,
   ScreenName?,
   Validity?
)>
<!ELEMENT Invite-Response (
   InviteID,
   Acceptance,
   Sender,
   Recipient,
   InviteNote?,
   ScreenName?
)>
<!ELEMENT InviteUser-Request (
   InviteID,
   InviteType,
   Sender,
   Recipient,
   ApplicationID?,
   GroupID?,
   PresenceSubList?,
   URLList?,
   InviteNote?,
   ScreenName?,
   Validity?
)>
<!ELEMENT InviteUser-Response (
   InviteID,
   Acceptance,
   Sender,
   Recipient,
   ResponseNote?,
   ScreenName?
)>
<!ELEMENT CancelInvite-Request (
   InviteID,
```

```
      Sender,
      Recipient?,
      InviteNote?,
      ApplicationID?,
      GroupID?,
      PresenceSubList?,
      URLList?,
      ScreenName?
   )>
   <!ELEMENT CancelInviteUser-Request (
      InviteID,
      Sender,
      Recipient,
      InviteNote?,
      ApplicationID?,
      GroupID?,
      PresenceSubList?,
      URLList?,
      ScreenName?
   )>
   <!ELEMENT GetMap-Request (UserID | PresenceSubList)>
   <!ELEMENT GetMap-Response (Map | URL)>
   <!ELEMENT VerifyID-Request (IDList)>

   <!ELEMENT GetList-Request EMPTY>
   <!ELEMENT GetList-Response (ContactListIDList?, DefaultContactList?)>
   <!ELEMENT CreateList-Request (ContactList, NickList?, ContactListProperties?)>
   <!ELEMENT CreateList-Response(ContactList, ContactListProperties)>
   <!ELEMENT DeleteList-Request (ContactList)>
   <!ELEMENT ListManage-Request (
      ContactList,
      (AddNickList | RemoveNickList | ContactListProperties)?,
      ReceiveList,
      AuthorizeAndGrant?
   )>
   <!ELEMENT ListManage-Response (Result, NickList?, ContactListProperties?)>
   <!ELEMENT CreateAttributeList-Request (
      PresenceSubList,
      UserIDList?,
      ContactListIDList?,
      DefaultList,
      DefaultNotify?,
      UserNotify?,
      ContactListNotify?
   )>
   <!ELEMENT DeleteAttributeList-Request (UserIDList? , ContactListIDList , DefaultList)>
   <!ELEMENT GetAttributeList-Request (DefaultList, ContactListIDList? , UserIDList?)>
   <!ELEMENT GetAttributeList-Response (Result, DefaultAttributeList?, Presence*)>
   <!ELEMENT SubscribePresence-Request (UserIDList?, ContactListIDList?, PresenceSubList?)>
   <!ELEMENT UnsubscribePresence-Request (UserIDList?, ContactListIDList?)>
   <!ELEMENT PresenceNotification-Request (Presence+)>
   <!ELEMENT GetWatcherList-Request (HistoryPeriod?, MaxWatcherList?)>
   <!ELEMENT GetWatcherList-Response (HistoryPeriod?, WatcherCount? ,Watcher*)>
   <!ELEMENT GetPresence-Request ((UserIDList? | ContactListIDList?), PresenceSubList?)>
   <!ELEMENT GetPresence-Response (Result, Presence*)>
   <!ELEMENT UpdatePresence-Request (PresenceSubList)>

   <!ELEMENT SendMessage-Request (DeliveryReport, MessageInfo, ContentData?)>
   <!ELEMENT SendMessage-Response (Result, MessageID)>
   <!ELEMENT SetDeliveryMethod-Request (DeliveryMethod, GroupID?, GroupContentLimit?)>
   <!ELEMENT GetMessageList-Request (GroupID?, MessageCount?)>
   <!ELEMENT GetMessageList-Response (MessageInfoList?, MessageTotalCount?)>
   <!ELEMENT RejectMessage-Request (MessageID+)>
   <!ELEMENT NewMessage (MessageInfo, ContentData?)>
   <!ELEMENT MessageDelivered (MessageID)>
   <!ELEMENT MessageNotification (MessageInfo)>
   <!ELEMENT GetMessage-Request (MessageID)>
   <!ELEMENT GetMessage-Response (MessageInfo, ContentData?)>
   <!ELEMENT DeliveryReport-Request (Result, DeliveryTime?, MessageInfo)>
   <!ELEMENT DeliveryTime (#PCDATA)>
   <!ELEMENT ForwardMessage-Request (MessageID, Sender, Recipient)>
   <!ELEMENT ForwardMessage-Response (MessageID)>
   <!ELEMENT ExtendConversation-Request (
      ExtendConversationID,
      UserIDList,
      ExtendConversationUser,
      SubscribeNotification,
      WelcomeNote?,
```

```
   ScreenName
)>
<!ELEMENT ExtendConversation-Response (ExtendConversationID, GroupID, ResponseNote?, Result)>
<!ELEMENT GetBlockedList-Request EMPTY>
<!ELEMENT GetBlockedList-Response (BlockList?, BlockListInUse, GrantList?, GrantListInUse)>
<!ELEMENT BlockEntity-Request (BlockList?, BlockListInUse, GrantList?, GrantListInUse)>

<!ELEMENT CreateGroup-Request (
   GroupID,
   GroupProperties,
   OwnProperties,
   JoinGroup,
   ScreenName?,
   SubscribeNotification
)>
<!ELEMENT DeleteGroup-Request (GroupID)>
<!ELEMENT JoinGroup-Request (
   GroupID,
   ScreenName,
   JoinedRequest,
   SubscribeNotification,
   OwnProperties?
)>
<!ELEMENT JoinGroup-Response (Joined?, ScreenName?, WelcomeNote?)>
<!ELEMENT LeaveGroup-Request (GroupID)>
<!ELEMENT LeaveGroup-Response (GroupID?, Result)>
<!ELEMENT GetGroupMembers-Request (GroupID)>
<!ELEMENT GetGroupMembers-Response (Admin?, Mod?, UserList?)>
<!ELEMENT GetJoinedUsers-Request (GroupID)>
<!ELEMENT GetJoinedUsers-Response ((AdminMapList | UserMapList), JoinedBlocked?)>
<!ELEMENT AddGroupMembers-Request (GroupID, UserIDList)>
<!ELEMENT RemoveGroupMembers-Request (GroupID, UserIDList)>
<!ELEMENT MemberAccess-Request (GroupID, Admin?, Mod?, UserIDList?)>
<!ELEMENT GetGroupProps-Request (GroupID)>
<!ELEMENT GetGroupProps-Response (GroupProperties, OwnProperties)>
<!ELEMENT SetGroupProps-Request (GroupID, GroupProperties?, OwnProperties?)>
<!ELEMENT RejectList-Request (GroupID, AddList?, RemoveList?)>
<!ELEMENT RejectList-Response (UserList?)>
<!ELEMENT SubscribeGroupNotice-Request (GroupID, SubscribeType)>
<!ELEMENT SubscribeGroupNotice-Response (Value)>
<!ELEMENT GroupChangeNotice (
   GroupID,
   Joined?,
   Left?,
   JoinedBlocked?,
   LeftBlocked?,
   GroupProperties?,
   OwnProperties?
)>

<!ELEMENT Extended-Request (#PCDATA)>
<!ATTLIST Extended-Request xmlns CDATA #REQUIRED>
<!ELEMENT Extended-Response (#PCDATA)>
<!ATTLIST Extended-Response xmlns CDATA #REQUIRED>

   <!-- Information element definitions -->

<!ELEMENT DigestBytes (#PCDATA)>
<!ELEMENT DigestSchema (#PCDATA)>
<!ELEMENT Password (#PCDATA)>
<!ELEMENT Nonce (#PCDATA)>
<!ELEMENT CapabilityRequest (#PCDATA)>

<!ELEMENT CapabilityList (
   (
      (AcceptedContentType+ | AnyContent)?,
      AcceptedPullLength,
      AcceptedPushLength,
      AcceptedTextContentLength,
      AcceptedTransferEncoding*
   )?,
   ClientType?,
   DefaultLanguage?,
   InitialDeliveryMethod?,
   MultiTrans,
   MultiTransPerMessage,
   OfflineETEMHandling?,
   OnlineETEMHandling?,
```

```
    PlainTextCharset*,
    ParserSize,
    ServerPollMin?,
    SupportedBearer*,
    SupportedOfflineBearer*,
    SupportedCIRMethod*,
    UDPPort?,
    SessionPriority?
)>

<!ELEMENT AgreedCapabilityList (
    (
        AcceptedContentType*,
        AnyContent?,
        AcceptedPullLength,
        AcceptedPushLength,
        AcceptedTextContentLength,
        AcceptedTransferEncoding*
    )?,
    CIRHTTPAddress?,
    CIRSMSAddress?,
    MultiTrans?,
    MultiTransPerMessage?,
    OfflineETEMHandling?,
    OnlineETEMHandling?,
    ServerPollMin?,
    SupportedBearer*,
    SupportedOfflineBearer*,
    SupportedCIRMethod*,
    (TCPAddress, TCPPort?)?,
    (UDPAddress, UDPPort?)?,
    SessionPriority?,
    UserSessionLimit?
)>

<!ELEMENT AcceptedContentType (
    ContentType,
    AcceptedRichContentLength,
    ContentPolicy,
    ContentPolicyLimit?
)>
<!ELEMENT AcceptedPullLength (#PCDATA)>
<!ELEMENT AcceptedPushLength (#PCDATA)>
<!ELEMENT AcceptedRichContentLength (#PCDATA)>
<!ELEMENT AcceptedTextContentLength (#PCDATA)>
<!ELEMENT AcceptedTransferEncoding (#PCDATA)>
<!ELEMENT AnyContent (#PCDATA)>
<!ELEMENT CIRHTTPAddress (URL)>
<!ELEMENT CIRSMSAddress (#PCDATA)>
<!ELEMENT ClientType (#PCDATA)>
<!ELEMENT ContentPolicy (#PCDATA)>
<!ELEMENT ContentPolicyLimit (#PCDATA)>
<!ELEMENT DefaultLanguage (#PCDATA)>
<!ELEMENT InitialDeliveryMethod (#PCDATA)>
<!ELEMENT MultiTrans (#PCDATA)>
<!ELEMENT MultiTransPerMessage (#PCDATA)>
<!ELEMENT OfflineETEMHandling (#PCDATA)>
<!ELEMENT OnlineETEMHandling (#PCDATA)>
<!ELEMENT PlainTextCharset (#PCDATA)>
<!ELEMENT ParserSize (#PCDATA)>
<!ELEMENT ServerPollMin (#PCDATA)>
<!ELEMENT SupportedBearer (#PCDATA)>
<!ELEMENT SupportedOfflineBearer (#PCDATA)>
<!ELEMENT SupportedCIRMethod (#PCDATA)>
<!ELEMENT TCPAddress (#PCDATA)>
<!ELEMENT TCPPort (#PCDATA)>
<!ELEMENT UDPAddress (#PCDATA)>
<!ELEMENT UDPPort (#PCDATA)>
<!ELEMENT UserSessionLimit (#PCDATA)>
<!ELEMENT Result (
    Code,
    Description?,
    DetailedResult*,
    SystemMessageList?,
    TryAgainTimeout?
)>
<!ELEMENT Code (#PCDATA)>
<!ELEMENT Description (#PCDATA)>
```

```
<!ELEMENT DetailedResult (
   Code,
   Description?,
   (Code, Description?, SearchElement+), (Code, Description?, SearchElement+)? |
   (UserID*,
   GroupID*,
   ScreenName*,
   MessageID*,
   ContactList*,
   Domain*   )
)>
<!ELEMENT Domain (#PCDATA)>
<!ELEMENT TryAgainTimeout (#PCDATA)>

<!ELEMENT SystemMessageList (SystemMessage+)>
<!ELEMENT SystemMessageResponseList (SystemMessageResponse+)>
<!ELEMENT SystemMessage (
   SystemMessageID,
   RequiresResponse,
   SystemMessageText,
   AnswerOptions?,
   VerificationMechanism?
)>
<!ELEMENT SystemMessageResponse (SystemMessageID, ChosenOptionID?, VerificationKey?)>
<!ELEMENT SystemMessageID (#PCDATA)>
<!ELEMENT RequiresResponse (#PCDATA)>
<!ELEMENT SystemMessageText (#PCDATA)>
<!ELEMENT AnswerOptions (AnswerOption+)>
<!ELEMENT AnswerOption (AnswerOptionID, AnswerOptionText)>
<!ELEMENT AnswerOptionID (#PCDATA)>
<!ELEMENT AnswerOptionText (#PCDATA)>
<!ELEMENT VerificationMechanism (InText | URL)>
<!ELEMENT InText (#PCDATA)>
<!ELEMENT ChosenOptionID (#PCDATA)>
<!ELEMENT VerificationKey (#PCDATA)>
<!ELEMENT HistoryPeriod (#PCDATA)>
<!ELEMENT MaxWatcherList (#PCDATA)>
<!ELEMENT Watcher (UserID, FriendlyName?, WatcherStatus?)>
<!ELEMENT WatcherCount (#PCDATA)>
<!ELEMENT WatcherStatus (#PCDATA)>

<!ELEMENT SessionCookie (#PCDATA)>
<!ELEMENT Sender (User | Group)>
<!ELEMENT Recipient (User*, Group*, ContactList*)>
<!ELEMENT User (UserID, FriendlyName?, (ApplicationID | ClientID)?)>
<!ELEMENT Group (GroupID | ScreenName)>
<!ELEMENT UserID (#PCDATA)>
<!ELEMENT FriendlyName (#PCDATA)>

<!ELEMENT ClientID (#PCDATA)>
<!ELEMENT ApplicationID (#PCDATA)>
<!ELEMENT GroupID (#PCDATA)>
<!ELEMENT SessionPriority (#PCDATA)>
<!ELEMENT IDList (UserID*, ContactList*, GroupID*, ScreenName*, Domain*)>
<!ELEMENT MessageID (#PCDATA)>
<!ELEMENT MessageURI (#PCDATA)>
<!ELEMENT ScreenName (SName, GroupID)>
<!ELEMENT NickName (Name, UserID)>
<!ELEMENT URLList (URL+)>

<!ELEMENT GroupList (GroupID+)>
<!ELEMENT UserIDList (UserID+)>
<!ELEMENT UserList (User*, ScreenName*)>
<!ELEMENT ContactListIDList (ContactList+)>
<!ELEMENT ContactList (#PCDATA)>
<!ELEMENT DefaultContactList (#PCDATA)>
<!ELEMENT NickList ((NickName | UserID)*)>
<!ELEMENT AddNickList ((NickName | UserID)+)>

<!ELEMENT RemoveNickList (UserID+)>
<!ELEMENT DefaultList (#PCDATA)>

<!ELEMENT ReceiveList (#PCDATA)>
<!ELEMENT AuthorizeAndGrant (#PCDATA)>
<!ELEMENT UserIDPair (UnrecognizedUserID, ValidUserID)>
<!ELEMENT UnrecognizedUserID (#PCDATA)>
<!ELEMENT ValidUserID (#PCDATA)>
```

```
<!ELEMENT SegmentContent (
   <!-- GetPublicProfile-Response related content -->
   PublicProfile+ |
   <!-- ListManage-Request related content -->
   (AddNickList | RemoveNickList) |
   <!-- ListManage-Response related content -->
   NickList |
   <!-- GetAttributeList-Response, PresenceNotification-Request and GetPresence-Response related
content -->
   Presence+ |
   <!-- GetWatcherList-Response related content -->
   Watcher+ |
   <!-- GetReactiveAuthStatus-Response related content -->
   ReactiveAuthStatusList |
   <!-- UpdatePresence-Request related content -->
   PresenceSubList |
   <!-- GetMessageList-Response related content -->
   MessageInfo+ |
   <!-- GetBlockedList-Response and BlockEntity-Request related content -->
   (BlockList | GrantList | (BlockList, GrantList)) |
   <!-- JoinGroup-Response related content -->
   UserMapList |
   <!-- GetGroupMembers-Response related content -->
   (Admin?, Mod?, UserList?) |
   <!-- GetJoinedUsers-Response related content -->
   (AdminMapList | UserMapList) |
   <!-- AddGroupMembers-Request and RemoveGroupMembers-Request related content -->
   UserIDList |
   <!-- MemberAccess-Request related content -->
   (Admin?, Mod?, UserIDList?) |
   <!-- RejectList-Request related content -->
   (AddList | RemoveList | (AddList, RemoveList)) |
   <!-- RejectList-Response and ExtendConversation-Request related content -->
   UserList |
   <!-- GroupChangeNotice related content -->
   (
      (Joined, JoinedBlocked?) |
      (Left, LeftBlocked?) |
      (Joined, JoinedBlocked?, Left, LeftBlocked?)
   ) |
)>

<!ELEMENT PublicProfile (UserID?, Property+)>
<!ELEMENT ClearPublicProfile (#PCDATA)>
<!ELEMENT AdvancedCriteria (#PCDATA)>
<!ELEMENT CompletionFlag (#PCDATA)>
<!ELEMENT SearchPairList (SearchPair+)
<!ELEMENT SearchPair (SearchElement, SearchString, PairID?)>
<!ELEMENT SearchElement (#PCDATA)>
<!ELEMENT SearchString (#PCDATA)>
<!ELEMENT PairID (#PCDATA)>
<!ELEMENT SearchLimit (#PCDATA)>
<!ELEMENT SearchID (#PCDATA)>
<!ELEMENT SearchIndex (#PCDATA)>
<!ELEMENT SearchFindings (#PCDATA)>
<!ELEMENT SearchResult (UserList? | GroupList?)>

<!ELEMENT InviteID (#PCDATA)>
<!ELEMENT InviteType (#PCDATA)>
<!ELEMENT InviteNote (#PCDATA)>
<!ELEMENT Acceptance (#PCDATA)>
<!ELEMENT ResponseNote (#PCDATA)>

<!ELEMENT DefaultAttributeList (DefaultNotify, PresenceSubList?)>
<!ELEMENT Presence (
   (
      (UserID, UserNotify?) |
      (ContactList, ContactListNotify?)
   ),
   PresenceSubList*
)>
<!ELEMENT PresenceSubList (#PCDATA)>
<!ATTLIST PresenceSubList  xmlns CDATA #REQUIRED
                           xmlns:Ext CDATA #IMPLIED>
<!ELEMENT DefaultNotify (#PCDATA)>
<!ELEMENT UserNotify (#PCDATA)>
<!ELEMENT ContactListNotify (#PCDATA)>
```

```
<!ELEMENT KeepAliveTime (#PCDATA)>
<!ELEMENT TimeToLive (#PCDATA)>

<!ELEMENT SName (#PCDATA)>
<!ELEMENT Name (#PCDATA)>
<!ELEMENT Value (#PCDATA)>

<!ELEMENT Validity (#PCDATA)>
<!ELEMENT MessageInfoList(MessageInfo+)>
<!ELEMENT MessageInfo (
    MessageID?,
    MessageURI?,
    ContentType?,
    ContentEncoding?,
    ContentSize,
    ContentName?,
    Recipient,
    Sender,
    DateTime?,
    Font?,
    Validity?,
    ExtBlockETEM*
)>
<!ELEMENT ContentName (#PCDATA)>
<!ELEMENT Font (Size?, Style*, Color?)>
<!ELEMENT Size (#PCDATA)>
<!ELEMENT Style (#PCDATA)>
<!ELEMENT Color (#PCDATA)>
<!ELEMENT DateTime (#PCDATA)>
<!ELEMENT MessageCount (#PCDATA)>
<!ELEMENT MessageTotalCount (#PCDATA)>
<!ELEMENT ExtBlockETEM (#PCDATA)>
<!ATTLIST ExtBlockETEM xmlns CDATA #REQUIRED>

<!ELEMENT DeliveryReport (#PCDATA)>
<!ELEMENT DeliveryMethod (#PCDATA)>
<!ELEMENT GroupContentLimit (#PCDATA)>

<!ELEMENT BlockList (EntityList | (AddList?, RemoveList?))>
<!ELEMENT GrantList (EntityList | (AddList?, RemoveList?))>
<!ELEMENT EntityList (UserID*, ScreenName*, GroupID*, ContactList*, ApplicationID*)>
<!ELEMENT AddList (UserID*, ScreenName*, GroupID*, ContactList*, ApplicationID*)>
<!ELEMENT RemoveList (UserID*, ScreenName*, GroupID*, ContactList*, ApplicationID*)>

<!ELEMENT BlockListInUse (#PCDATA)>
<!ELEMENT GrantListInUse (#PCDATA)>

<!ELEMENT ContactListProperties (Property+)>
<!ELEMENT GroupProperties (Property+, WelcomeNote?)>
<!ELEMENT OwnProperties (Property+)>
<!ELEMENT Property (Name, Value?)>
<!ELEMENT WelcomeNote (ContentType, ContentEncoding?, ContentData)>
<!ELEMENT ExtendConversationID (#PCDATA)>
<!ELEMENT ExtendConversationUser (UserID, ClientID?)>

<!ELEMENT JoinGroup (#PCDATA)>
<!ELEMENT SubscribeNotification (#PCDATA)>
<!ELEMENT JoinedRequest (#PCDATA)>

<!ELEMENT Admin (UserList)>
<!ELEMENT Mod (UserList)>

<!ELEMENT AdminMapList (AdminMapping?, ModMapping?, UserMapping?)>
<!ELEMENT UserMapList (UserMapping?)>
<!ELEMENT AdminMapping (Mapping+)>
<!ELEMENT ModMapping (Mapping+)>
<!ELEMENT UserMapping (Mapping+)>
<!ELEMENT Mapping (SName, UserID?)>

<!ELEMENT SubscribeType (#PCDATA)>
<!ELEMENT Joined (UserMapList)>
<!ELEMENT Left (UserList)>
<!ELEMENT JoinedBlocked (UserMapList)>
<!ELEMENT LeftBlocked (UserList)>

<!ELEMENT NotificationType (#PCDATA)>
<!ELEMENT NotificationTypeList (NotificationType+)>
```

```
<!ELEMENT Logo (ContentType, ContentSize?, ContentEncoding, ContentData)>
<!ELEMENT Map (ContentType, ContentEncoding, ContentData)>
<!ELEMENT ContentType (#PCDATA)>
<!ELEMENT ContentData (#PCDATA)>
<!ELEMENT ContentSize (#PCDATA)>
<!ELEMENT ContentEncoding (#PCDATA)>

<!ELEMENT AllFunctionsRequest (#PCDATA)>
<!ELEMENT AllFunctions (WVCSPFeat)>
<!ELEMENT Functions (WVCSPFeat)>
<!ELEMENT WVCSPFeat (FundamentalFeat?, PresenceFeat?, IMFeat?, GroupFeat?)>

<!ELEMENT FundamentalFeat ((MF | (ServiceFunc?, SearchFunc?, InviteFunc?, VerifyIDFunc?)))?>
<!ELEMENT PresenceFeat ((MP | (ContListFunc?, PresenceAuthFunc?, PresenceDeliverFunc?)))?>
<!ELEMENT IMFeat ((MM | (IMSendFunc?, IMReceiveFunc?, IMAuthFunc?)))?>
<!ELEMENT GroupFeat ((MG | (GroupMgmtFunc?, GroupUseFunc?, GroupAuthFunc?)))?>
<!ELEMENT MF EMPTY>
<!ELEMENT MP EMPTY>
<!ELEMENT MM EMPTY>
<!ELEMENT MG EMPTY>

<!ELEMENT ServiceFunc (GETSPI?, GETMAP?, SGMNT?)>
<!ELEMENT SearchFunc (SRCH?, ADVSR?, STSRC?)>
<!ELEMENT ADVSR EMPTY>
<!ELEMENT InviteFunc (INVIT?, CAINV?)>
<!ELEMENT VerifyIDFunc (VRID?)>

<!ELEMENT ContListFunc (GCLI?, CCLI?, DCLI?, MCLS?)>

<!ELEMENT PresenceDeliverFunc (GETPR?, UPDPR?)>
<!ELEMENT PresenceAuthFunc (GETWL?)>

<!ELEMENT IMSendFunc (MDELIV?, FWMSG?)>
<!ELEMENT IMReceiveFunc (SETD?, GETLM?, GETM?, REJCM?, NOTIF?, NEWM?, OFFNOTIF?)>
<!ELEMENT OFFNOTIF EMPTY>
<!ELEMENT IMAuthFunc (GLBLU?, BLENT?)>

<!ELEMENT GroupMgmtFunc (CREAG?, DELGR?, GETGP?, SETGP?)>
<!ELEMENT GroupUseFunc (SUBGCN?, GRCHN?, EXCON?)>
<!ELEMENT GroupAuthFunc (GETGM?, ADDGM?, RMVGM?, MBRAC?, REJEC?, GETJU?)>

<!ELEMENT GETSPI EMPTY>
<!ELEMENT GETMAP EMPTY>
<!ELEMENT SGMNT EMPTY>
<!ELEMENT SRCH EMPTY>
<!ELEMENT STSRC EMPTY>
<!ELEMENT INVIT EMPTY>
<!ELEMENT CAINV EMPTY>
<!ELEMENT VRID EMPTY>

<!ELEMENT GCLI EMPTY>
<!ELEMENT CCLI EMPTY>
<!ELEMENT DCLI EMPTY>
<!ELEMENT MCLS EMPTY>
<!ELEMENT GETWL EMPTY>

<!ELEMENT GETPR EMPTY>
<!ELEMENT UPDPR EMPTY>

<!ELEMENT MDELIV EMPTY>
<!ELEMENT FWMSG EMPTY>
<!ELEMENT SETD EMPTY>
<!ELEMENT GETLM EMPTY>
<!ELEMENT GETM EMPTY>
<!ELEMENT REJCM EMPTY>
<!ELEMENT NOTIF EMPTY>
<!ELEMENT NEWM EMPTY>
<!ELEMENT GLBLU EMPTY>
<!ELEMENT BLENT EMPTY>

<!ELEMENT CREAG EMPTY>
<!ELEMENT DELGR EMPTY>
<!ELEMENT GETGP EMPTY>
<!ELEMENT SETGP EMPTY>
<!ELEMENT SUBGCN EMPTY>
<!ELEMENT GRCHN EMPTY>
<!ELEMENT EXCON EMPTY>
<!ELEMENT GETGM EMPTY>
```

```
<!ELEMENT ADDGM EMPTY>
<!ELEMENT RMVGM EMPTY>
<!ELEMENT MBRAC EMPTY>
<!ELEMENT REJEC EMPTY>
<!ELEMENT GETJU EMPTY>
```

```
<!ELEMENT ADDGM EMPTY>
<!ELEMENT RMVGM EMPTY>
```

7. Extension Framework

7.1 Extending Existing Primitives

The extension block is defined using the XML element "ExtBlock". The ExtBlock element MUST include a namespace attribute, and it MAY be added into the "TransactionContent" block. More than one extension block MAY be added to the "TransactionContent" block.

In the following example, an extension block is added to the Status primitive:

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
<Session>
   <SessionDescriptor>
        <SessionType>Inband</SessionType>
        <SessionID>im.user.com#48815@server.com</SessionID>
     </SessionDescriptor>
     <Transaction>
        <TransactionDescriptor>
           <TransactionMode>Response</TransactionMode>
           <TransactionID>IMApp01#12347@NOK5110</TransactionID>
        </TransactionDescriptor>
        <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
           <Status>
              <Result>
                 <Code>200</Code>
              </Result>
           </Status>
        </TransactionContent>
           <ExtBlock xmlns="foo.com/V1.2">
              <!— extended information can be added in this block -->
           </ExtBlock>
     </Transaction>
</Session>
</WV-CSP-Message>
```

7.2 Introducing New Primitives

New primitives MUST use the "ExtendedRequest" and "ExtendedResponse" elements, for example:

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12347@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Extended-Request xmlns="www.foo.com/V1.0">
               <SomeElement>
                  <!—Primitive elements may be added here -->
               </SomeElement>
            </Extended-Request>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

7.3   Extending End-to-end Messages

The extension block in end-to-end messages is defined using the XML element "ExtBlockETEM". The ExtBlockETEM element MUST include a namespace attribute, and it MAY be added into the instant message and invitation-related primitives. More than one extended block MAY be added to the primitives.

In the following example, an end-to-end extension block is added to the SendMessage primitive:

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <SendMessage-Request>
               <DeliveryReport>T</DeliveryReport>
               <MessageInfo>
                  <ContentType>text/plain</ContentType>
                  <ContentEncoding>None</ContentEncoding>
                  <ContentSize>58</ContentSize>
                  <Recipient>
                     <ContactList>wv:john/My_friends@smith.com</ContactList>
                  </Recipient>
                  <Sender>
                     <User>
                        <UserID>wv:john@smith.com</UserID>
                     </User>
                  </Sender>
               </MessageInfo>
               <ContentData>Hurry up; they are ringing the bells in the WV
already...</ContentData>
               <ExtBlockETEM xmlns="foo.com/V1.1">
                  <!— extended information can be added in this block -->
               </ExtBlockETEM>
            </SendMessage-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

Appendix A.   Change History   (Informative)

A.1   Approved Version History

Reference	Date	Description
OMA-TS-IMPS_CSP_XMLS-V1_3	23 Jan 2007	Status changed to Approved by TP TP Doc ref# OMA-TP-2006-0453R02

Appendix B.   Static Conformance Requirements   (Normative)

The notation used in this section is specified in [IOPPROC].

B.1   XML Encoding Requirements

B.1.1   Clients

Item	Function	Reference	Status	Requirement
IMPS-CSP-XML-C-001	XML encoding is well-formed	[XML]	M	
IMPS-CSP-XML-C-002	XML encoding follows the DTD	[CSP]	M	
IMPS-CSP-XML-C-003	XML encoding tolerates protocol extension	[CSP]	M	
IMPS-CSP-XML-C-004	The namespace identifier for the session and transaction structure is "http://www.openmobilealliance.org/DTD/IMPS-CSP1.3"	5	M	
IMPS-CSP-XML-C-005	The namespace identifier for the transaction content realizing the defined WV functionality is "http://www.openmobilealliance.org/DTD/IMPS-TRC1.3"	6	M	
IMPS-CSP-XML-C-006	The namespace identifier for the WV defined presence attributes is "http://www.openmobilealliance.org/DTD/IMPS-PA1.3"	[PA XMLS]	M	
IMPS-CSP-XML-C-007	The primitives are encoded using binary XML format	[CSP WBXML]	O	
IMPS-CSP-XML-C-008	The primitives are encoded using textual XML format		O	
IMPS-CSP-XML-C-009	The primitives are encoded using either the textual XML format or the binary XML format	[CSP]	M	IMPS-CSP-XML-C-007 OR IMPS-CSP-XML-C-008

B.1.2   Servers

Item	Function	Reference	Status	Requirement
IMPS-CSP-XML-S-001	XML encoding is well-formed	[XML]	M	
IMPS-CSP-XML-S-002	XML encoding follows the DTD	[CSP]	M	
IMPS-CSP-XML-S-003	XML encoding tolerates protocol extension	[CSP]	M	
IMPS-CSP-XML-S-004	The namespace identifier for the session and transaction structure is "http://www.openmobilealliance.org/DTD/IMPS-CSP1.3"	5	M	
IMPS-CSP-XML-S-005	The namespace identifier for the transaction content realizing the defined WV functionality is "http://www.openmobilealliance	6	M	

Item	Function	Reference	Status	Requirement
	.org/DTD/IMPS-TRC1.3"			
IMPS-CSP-XML-S-006	The namespace identifier for the WV defined presence attributes is "http://www.openmobilealliance.org/DTD/IMPS-PA1.3"	[PA XMLS]	M	
IMPS-CSP-XML-S-007	The primitives are encoded using binary XML format	[CSP WBXML]	M	
IMPS-CSP-XML-S-008	The primitives are encoded using textual XML format		M	

B.2 Transaction Requirements

B.2.1 Clients

Item	Function	Reference	Status	Requirement
IMPS-CSP-TRANSX-C-001	For a request primitive, the Mode element MUST be 'Request'	4	M	
IMPS-CSP-TRANSX-C-002	For a response primitive, the Mode element MUST be 'Response'.	4	M	
IMPS-CSP-TRANSX-C-003	If a primitive contains the Poll element and it is indicating true ('T'), the client sends PollingRequest primitive to the server.	4	M	

B.2.2 Servers

Item	Function	Reference	Status	Requirement
IMPS-CSP-TRANSX-S-001	For a request primitive, the Mode element MUST be 'Request'	4	M	
IMPS-CSP-TRANSX-S-004	For a response primitive, the Mode element MUST be 'Response'.	4	M	
IMPS-CSP-TRANSX-S-005	The server-originated primitives contain the Poll element.	4	M	
IMPS-CSP-TRANSX-S-006	The server-originated primitives contain the CIR element.	4	O	IMPS-CSP-TRANSX-S-007
IMPS-CSP-TRANSX-S-007	When the server discovers that the CIR channel over the standalone TCP/IP is disconnected, the server-originated primitive contains the CIR element with the value 'F'.	4	O	IMPS-CSP-TRANSX-S-006

Appendix C. XML Binding Examples (Informative)

C.1 Version Discovery transaction

C.1.1 VersionDiscovery-Request primitive

```
<WV-CSP-VersionDiscovery-Request>
   <VersionList>
      <SessionNSName>
         http://www.wireless-village.org/CSP1.1
      </SessionNSName>
      <SessionNSName>
         http://www.openmobilealliance.org/DTD/WV-CSP1.2
      </SessionNSName>
      <SessionNSName>
         http://www.openmobilealliance.org/DTD/IMPS-CSP1.3
      </SessionNSName>
      <TransactionNSName>
         http://www.wireless-village.org/TRC1.1
      </TransactionNSName>
      <TransactionNSName>
         http://www.openmobilealliance.org/DTD/WV-TRC1.2
      </TransactionNSName>
      <TransactionNSName>
         http://www.openmobilealliance.org/DTD/IMPS-TRC1.3
      </TransactionNSName>
   </VersionList>
</WV-CSP-VersionDiscovery-Request>
```

C.1.2 VersionDiscovery-Response primitive

```
<WV-CSP-VersionDiscovery-Response>
   <VersionList>
      <SessionNSName>
         http://www.openmobilealliance.org/DTD/WV-CSP1.2
      </SessionNSName>
      <SessionNSName>
         http://www.openmobilealliance.org/DTD/IMPS-CSP1.3
      </SessionNSName>
      <TransactionNSName>
         http://www.openmobilealliance.org/DTD/WV-TRC1.2
      </TransactionNSName>
      <TransactionNSName>
         http://www.openmobilealliance.org/DTD/IMPS-TRC1.3
      </TransactionNSName>
      <PresenceAttributeNSName>
         http://www.wireless-village.org/PA1.1
      </PresenceAttributeNSName>
      <PresenceAttributeNSName>
         http://www.openmobilealliance.org/DTD/IMPS-PA1.3
      </PresenceAttributeNSName>
      <PresenceAttributeNSName>
         http://www.openmobilealliance.org/DTD/IMPS-PA1.3
      </PresenceAttributeNSName>
      <PresenceAttributeNSName>
         http://www.foo.com/wv-presence-attribute-extension
      </PresenceAttributeNSName>
   </VersionList>
</WV-CSP-VersionDiscovery-Response>
```

C.2 Status primitive with details

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
```

```
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
        </TransactionDescriptor>
        <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Status>
                <Result>
                    <Code>201</Code>
                    <Description>Partially successful.</Description>
                    <DetailedResult>
                        <Code>531</Code>
                        <Description>Unknown user.</Description>
                        <UserID>wv:bad_user1@im.com</UserID>
                        <UserID>wv:bad_user2@im.com</UserID>
                    </DetailedResult>
                    <DetailedResult>
                        <Code>532</Code>
                        <Description>Blocked.</Description>
                        <UserID>wv:bad_user3@im.com</UserID>
                        <UserID>wv:bad_user4@im.com</UserID>
                    </DetailedResult>
                </Result>
            </Status>
        </TransactionContent>
    </Transaction>
    <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.3   Polling-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <Polling-Request/>
            </TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.4   2-way Login transaction

C.4.1   Login-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Outband</SessionType>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <Login-Request>
                    <UserID>wv:user@im.com</UserID>
                    <ClientID>http://semc/111222333</ClientID>
                    <Password>1my2pass3word</Password>
                    <TimeToLive>120</TimeToLive>
                    <SessionCookie>im.user.com#20011224#328746293</SessionCookie>
                </Login-Request>
            </TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.4.2   Login-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Outband</SessionType>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Login-Response>
               <ClientID>http://semc/111222333</ClientID>
               <Result>
                  <Code>200</Code>
                  <Description>Successfully logged in.</Description>
               </Result>
               <SessionID>im.user.com#48815@server.com</SessionID>
               <KeepAliveTime>120</KeepAliveTime>
               <CapabilityRequest>T</CapabilityRequest>
            </Login-Response>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.5   4-way Login transaction

C.5.1   Login-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Outband</SessionType>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Login-Request>
               <UserID>wv:user@im.com</UserID>
               <ClientID>http://semc/111222333</ClientID>
               <DigestSchema>PWD</DigestSchema>
               <DigestSchema>SHA</DigestSchema>
               <DigestSchema>MD4</DigestSchema>
               <DigestSchema>MD5</DigestSchema>
               <DigestSchema>MD6</DigestSchema>
               <SessionCookie>im.user.com#20011224#328746293
               </SessionCookie>
            </Login-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.5.2   Login-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Outband</SessionType>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
```

```
            <Login-Response>
               <ClientID>http://semc/111222333</ClientID>
               <Result>
                  <Code>200</Code>
                  <Description>Successfully logged in.</Description>
               </Result>
               <Nonce>92387rhf934fho3fh9fkn309fn3pfun304ufn3</Nonce>
               <DigestSchema>MD6</DigestSchema>
               <CapabilityRequest>F</CapabilityRequest>
            </Login-Response>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.5.3   Login-Request primitive
```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Outband</SessionType>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Login-Request>
               <UserID>wv:user@im.com</UserID>
               <ClientID>http://semc/111222333</ClientID>
               <DigestBytes>alkkuayfdsAKDSJfsdfjhksadhlkasdlkfgsal</DigestBytes>
               <TimeToLive>120</TimeToLive>
               <SessionCookie>im.user.com#20011224#328746293</SessionCookie>
            </Login-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.5.4   Login-Response primitive
```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Outband</SessionType>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Login-Response>
               <ClientID>http://semc/111222333</ClientID>
               <Result>
                  <Code>200</Code>
                  <Description>Successfully logged in.</Description>
               </Result>
               <SessionID>im.user.com#48815@server.com</SessionID>
               <KeepAliveTime>120</KeepAliveTime>
               <CapabilityRequest>T</CapabilityRequest>
            </Login-Response>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.6 Service negotiation transaction

C.6.1 Service-Request primitive with Discovery and Negotiation

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Service-Request>
               <Functions>
                  <WVCSPFeat>
                     <FundamentalFeat/>
                     <PresenceFeat/>
                     <IMFeat/>
                  </WVCSPFeat>
               </Functions>
               <AllFunctionsRequest>T</AllFunctionsRequest>
            </Service-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.6.2 Service-Response primitive with Discovery and Negotiation

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Service-Response>
               <Functions>
                  <WVCSPFeat>
                     <FundamentalFeat>
                        <SearchFunc/>
                     </FundamentalFeat>
                  </WVCSPFeat>
               </Functions>
               <AllFunctions>
                  <WVCSPFeat/>
               </AllFunctions>
            </Service-Response>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.6.3 Service-Request primitive with Discovery

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
```

```
        <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Service-Request>
                <AllFunctionsRequest>T</AllFunctionsRequest>
            </Service-Request>
        </TransactionContent>
    </Transaction>
    </Session>
</WV-CSP-Message>
```

C.6.4   Service-Response primitive with Discovery

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Response</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <Service-Response>
                    <AllFunctions>
                        <WVCSPFeat/>
                    </AllFunctions>
                </Service-Response>
            </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.6.5   Service-Request primitive with Negotiation

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <Service-Request>
                    <Functions>
                        <WVCSPFeat>
                            <FundamentalFeat/>
                            <PresenceFeat/>
                            <IMFeat/>
                        </WVCSPFeat>
                    </Functions>
                    <AllFunctionsRequest>F</AllFunctionsRequest>
                </Service-Request>
            </TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.6.6   Service-Response primitive with Negotiation

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Response</TransactionMode>
```

```
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <Service-Response>
                    <Functions>
                        <WVCSPFeat>
                            <FundamentalFeat>
                                <SearchFunc/>
                            </FundamentalFeat>
                        </WVCSPFeat>
                    </Functions>
                </Service-Response>
            </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.7   Client capability negotiation transaction

C.7.1   ClientCapability-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <ClientCapability-Request>

                    <CapabilityList>
                        <AcceptedContentType>
                            <ContentType>application/x-sms</ContentType>
                            <AcceptedRichContentLength>512<AcceptedRichContentLength>
                            <ContentPolicy>N</ContentPolicy>
                        </AcceptedContentType>
                        <AcceptedContentType>
                            <ContentType>text/x-vCard; charset=us-ascii</ContentType>
                            <AcceptedRichContentLength>1024<AcceptedRichContentLength>
                            <ContentPolicy>N</ContentPolicy>
                        </AcceptedContentType>
                        <AcceptedContentType>
                            <ContentType>text/x-vCalendar; charset=us-ascii</ContentType>
                            <AcceptedRichContentLength>1024<AcceptedRichContentLength>
                            <ContentPolicy>N</ContentPolicy>
                        </AcceptedContentType>
                        <AcceptedContentType>
                            <ContentType>image/jpeg</ContentType>
                            <AcceptedRichContentLength>524288</AcceptedRichContentLength>
                            <ContentPolicy>R</ContentPolicy>
                            <ContentPolicyLimit>524289</ContentPolicyLimit>
                        </AcceptedContentType>
                        <AcceptedContentType>
                            <ContentType>multipart/mixed</ContentType>
                            <AcceptedRichContentLength>2097152</AcceptedRichContentLength>
                            <ContentPolicy>R</ContentPolicy>
                            <ContentPolicyLimit>2097153</ContentPolicyLimit>
                        </AcceptedContentType>
                        <AcceptedPullLength>5242880</AcceptedPullLength>
                        <AcceptedPushLength>102400</AcceptedPushLength>
                        <AcceptedTextContentLength>262144</AcceptedTextContentLength>
                        <AcceptedTransferEncoding>BASE64</AcceptedTransferEncoding>
                        <ClientType>MOBILE_PHONE</ClientType>
                        <DefaultLanguage>fin</DefaultLanguage>
                        <InitialDeliveryMethod>P</InitialDeliveryMethod>
                        <MultiTrans>5</MultiTrans>
                        <OfflineETEMHandling>PRIORITYSTORE</OfflineETEMHandling>
                        <PlainTextCharset>4</PlainTextCharset>
                        <PlainTextCharset>62</PlainTextCharset>
```

```
                        <PlainTextCharset>106</PlainTextCharset>
                        <ParserSize>8388608</ParserSize>
                        <ServerPollMin>2</ServerPollMin>
                        <SessionPriority>5</SessionPriority>
                        <SupportedBearer>SMS</SupportedBearer>
                        <SupportedBearer>WSP</SupportedBearer>
                        <SupportedBearer>HTTP</SupportedBearer>
                        <SupportedCIRMethod>WAPSMS</SupportedCIRMethod>
                        <SupportedCIRMethod>WAPUDP</SupportedCIRMethod>
                        <SupportedCIRMethod>SUDP</SupportedCIRMethod>
                        <SupportedCIRMethod>STCP</SupportedCIRMethod>
                        <UDPPort>91</UDPPort>
                    </CapabilityList>
                </ClientCapability-Request>
            </TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.7.2   ClientCapability-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
<SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Response</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <ClientCapability-Response>
                    <AgreedCapabilityList>
                        <AcceptedContentType>
                            <ContentType>image/jpeg</ContentType>
                            <AcceptedRichContentLength>307200</AcceptedRichContentLength>
                            <ContentPolicy>R</ContentPolicy>
                            <ContentPolicyLimit>307201</ContentPolicyLimit>
                        </AcceptedContentType>
                        <AcceptedContentType>
                            <ContentType>multipart/mixed</ContentType>
                            <AcceptedRichContentLength>1048576</AcceptedRichContentLength>
                            <ContentPolicy>C</ContentPolicy>
                            <ContentPolicyLimit>1048577</ContentPolicyLimit>
                        </AcceptedContentType>
                        <AcceptedPullLength>2097152</AcceptedPullLength>
                        <AcceptedTextContentLength>4096</AcceptedTextContentLength>
                        <MultiTrans>2</MultiTrans>
                        <OfflineETEMHandling>PRIORITYREJECT</OfflineETEMHandling>
                        <ServerPollMin>3</ServerPollMin>
                        <SupportedBearer>SMS</SupportedBearer>
                        <SupportedBearer>WSP</SupportedBearer>
                        <SupportedBearer>HTTP</SupportedBearer>
                        <SupportedCIRMethod>WAPSMS</SupportedCIRMethod>
                        <SupportedCIRMethod>WAPUDP</SupportedCIRMethod>
                        <SupportedCIRMethod>SUDP</SupportedCIRMethod>
                        <SupportedCIRMethod>STCP</SupportedCIRMethod>
                        <TCPAddress>100.100.100.100</TCPAddress>
                        <TCPPort>98</TCPPort>
                    </AgreedCapabilityList>
                </ClientCapability-Response>
            </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.8   Logout transaction

C.8.1   Logout-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Logout-Request/>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.8.2   Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Status>
               <Result>
                  <Code>200</Code>
               </Result>
            </Status>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.9   Server initiated logout transaction

C.9.1   Disconnect primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Disconnect>
               <Result>
                  <Code>601</Code>
                  <Description>Updating server software. All services offline for 3
hours.</Description>
               </Result>
            </Disconnect>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
```

```
      </Session>
</WV-CSP-Message>
```

C.10 Time-out reset transaction

C.10.1 KeepAlive-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <KeepAlive-Request>
               <TimeToLive>20</TimeToLive>
            </KeepAlive-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.10.2 KeepAlive-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <KeepAlive-Response>
               <Result>
                  <Code>200</Code>
                  <Description>Successfully completed.</Description>
               </Result>
               <KeepAliveTime>120</KeepAliveTime>
            </KeepAlive-Response>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.11 Get service provider info transaction

C.11.1 GetSPInfo-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Outband</SessionType>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <GetSPInfo-Request>
```

```
                        <ClientID>http://semc/111222333</ClientID>
                    </GetSPInfo-Request>
                </TransactionContent>
            </Transaction>
        </Session>
    </WV-CSP-Message>
```

C.11.2 GetSPInfo-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Outband</SessionType>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Response</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <GetSPInfo-Response>
                    <ClientID>http://semc/111222333</ClientID>
                    <Name>Fake Chocholate Co.</Name>
                    <Logo>
                        <ContentType>application/vnd.wap.mms-message</ContentType>
                        <ContentSize>1234</ContentSize>
                        <ContentEncoding>BASE64</ContentEncoding>
                        <ContentData>Base64EncodedDataHere</ContentData>
                    </Logo>
                    <Description>We make the fakest chocholate in the world!</Description>
                    <URL>http://www.fake-chocholate.co.uk</URL>
                </GetSPInfo-Response>
            </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.12 System Message transactions

C.12.1 SystemMessage-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <SystemMessage-Request>
                    <SystemMessageList>
                        <SystemMessage>
                            <SystemMessageID>0x1234</SystemMessageID>
                            <RequiresResponse>T</RequiresResponse>
                            <SystemMessageText>These are the offered services, and MUST You agree to
these and these terms before use of the service.</SystemMessageText>
                            <VerificationMechanism>
                                <InText>To confirm, please enter the last four digits of Your social
security number.</InText>
                            </VerificationMechanism>
                        </SystemMessage>
                        <SystemMessage>
                            <SystemMessageID>0x1235</SystemMessageID>
                            <SystemMessageText>You must accept the costs of the service, which are
described in a table available on the following URL: http://www.operator-specific-url.com To
confirm, please visit the designated web page, and follow the instructions.</SystemMessageText>
                            <VerificationMechanism>
                                <URL>http://www.operator-specific-url.com/verifythis</URL>
                            </VerificationMechanism>
```

```
                    </SystemMessage>
                    <SystemMessage>
                        <SystemMessageID>0x1236</SystemMessageID>
                        <SystemMessageText>You have to choose a User-ID. Please select one from the
list.</SystemMessageText>
                        <AnswerOptions>
                          <AnswerOption>
                              <AnswerOptionID>0</AnswerOptionID>
                              <AnswerOptionText>john.smith@there.com<AnswerOptionText>
                          </AnswerOption>
                          <AnswerOption>
                              <AnswerOptionID>1</AnswerOptionID>
                              <AnswerOptionText>johnsmith@there.com<AnswerOptionText>
                          </AnswerOption>
                          <AnswerOption>
                              <AnswerOptionID>2</AnswerOptionID>
                              <AnswerOptionText>jsmith@there.com<AnswerOptionText>
                          </AnswerOption>
                          <AnswerOption>
                              <AnswerOptionID>3</AnswerOptionID>
                              <AnswerOptionText>john01@there.com<AnswerOptionText>
                          </AnswerOption>
                        </AnswerOptions>
                        <VerificationMechanism>
                            <InText>To confirm, please enter the last four digits of Your social
security number.</InText>
                        </VerificationMechanism>
                    </SystemMessage>
                  </SystemMessageList>
                </SystemMessage-Request>
            </TransactionContent>
        </Transaction>
      </Session>
</WV-CSP-Message>
```

C.12.2   Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
      <SessionDescriptor>
        <SessionType>Inband</SessionType>
        <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
        <TransactionDescriptor>
          <TransactionMode>Response</TransactionMode>
          <TransactionID>IMApp01#12345@NOK5110</TransactionID>
        </TransactionDescriptor>
        <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
          <Status>
            <Result>
              <Code>200</Code>
            </Result>
          </Status>
        </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.12.3   SystemMessage-User primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
      <SessionDescriptor>
        <SessionType>Inband</SessionType>
        <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
        <TransactionDescriptor>
          <TransactionMode>Request</TransactionMode>
          <TransactionID>IMApp01#12346@NOK5110</TransactionID>
        </TransactionDescriptor>
        <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
```

```
                    <SystemMessage-User>
                       <SystemMessageResponseList>
                          <SystemMessageResponse>
                             <SystemMessageID>0x1234</SystemMessageID>
                             <VerificationKey>0000</VerificationKey>
                          </SystemMessageResponse>
                          <SystemMessageResponse>
                             <SystemMessageID>0x1235</SystemMessageID>
                             <VerificationKey>aX9b8d6Q3</VerificationKey>
                          </SystemMessageResponse>
                          <SystemMessageResponse>
                             <SystemMessageID>0x1236</SystemMessageID>
                             <ChosenOptionID>0</ChosenOptionID>
                             <VerificationKey>0000</VerificationKey>
                          </SystemMessageResponse>
                       </SystemMessageResponseList>
                    </SystemMessage-User>
                 </TransactionContent>
              </Transaction>
           </Session>
   </WV-CSP-Message>
```

C.12.4 Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12346@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Status>
               <Result>
                  <Code>200</Code>
               </Result>
            </Status>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.13 Segmentation mechanism example

The following example demonstrates how a client retrieves a long grant and block list in segments from the server – assuming a block list (40 users) in use and a grant list (10 users) not in use. Note that in order to make the example shorter, not all users are listed.

C.13.1 GetBlockedList-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <GetBlockedList-Request/>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.13.2 GetBlockedList-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            <SegmentInfo>
               <SegmentCount>2</SegmentCount>
               <SegmentID>
                  <TransactionID>IMApp01#12345@NOK5110</TransactionID>
                  <SegmentReference>0</SegmentReference>
               </SegmentID>
            </SegmentInfo>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <GetBlockedList-Response>
               <BlockList>
                  <EntityList>
                     <UserID>wv:blockedusr01@server.com</UserID>
                     <!-- 28 other users here -->
                     <UserID>wv:blockedusr30@server.com</UserID>
                  </EntityList>
               </BlockList>
               <BlockListInUse>T</BlockListInUse>
               <GrantList>
                  <EntityList>
                     <UserID>wv:grantedusr01@server.com</UserID>
                  </EntityList>
               </GrantList>
               <GrantListInUse>T</GrantListInUse>
            </GetBlockedList-Response>
         </TransactionContent>
      </Transaction>
      <Poll>T</Poll>
   </Session>
</WV-CSP-Message>
```

C.13.3 GetSegment-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12346@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <GetSegment-Request>
               <SegmentID>
                  <TransactionID>IMApp01#12345@NOK5110</TransactionID>
                  <SegmentReference>1</SegmentReference>
               </SegmentID>
            </GetSegment-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.13.4 GetSegment-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
```

```
            <SessionID>im.user.com#48815@server.com</SessionID>
         </SessionDescriptor>
         <Transaction>
            <TransactionDescriptor>
               <TransactionMode>Response</TransactionMode>
               <TransactionID>IMApp01#12346@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
               <GetSegment-Response>
                  <SegmentContent>
                     <BlockList>
                        <EntityList>
                           <UserID>wv:blockedusr31@server.com</UserID>
                           <!-- 8 other users here -->
                           <UserID>wv:blockedusr40@server.com</UserID>
                        </EntityList>
                     </BlockList>
                     <GrantList>
                        <EntityList>
                           <UserID>wv:grantedusr02@server.com</UserID>
                           <!-- 7 other users here -->
                           <UserID>wv:grantedusr10@server.com</UserID>
                        </EntityList>
                     </GrantList>
                  </SegmentContent>
               </GetSegment-Response>
            </TransactionContent>
         </Transaction>
         <Poll>F</Poll>
      </Session>
</WV-CSP-Message>
```

C.14 Retrieve Public Profile transaction

C.14.1 GetPublicProfile-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <GetPublicProfile-Request>
               <UserID>wv:he@there.com</UserID>
               <UserID>wv:non.exsiting-user@server.com</UserID>
            </GetPublicProfile-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.14.2 GetPublicProfile-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <GetPublicProfile-Response>
               <Result>
```

```
                     <Code>201</Code>
                     <Description>Partially successful.</Description>
                     <DetailedResult>
                        <Code>531</Code>
                        <Description>Unknown user.</Description>
                        <UserID>wv:non.exsiting-user@server.com</UserID>
                     </DetailedResult>
                  </Result>
                  <PublicProfile>
                     <UserID>wv:he@there.com</UserID>
                     <Property>
                        <Name>PP_AGE</Name>
                        <Value>198001</Value>
                     </Property>
                     <Property>
                        <Name>PP_COUNTRY</Name>
                        <Value>FI</Value>
                     </Property>
                     <Property>
                        <Name>PP_FRIENDLY_NAME</Name>
                        <Value>John The Great, II</Value>
                     </Property>
                     <Property>
                        <Name>PP_CITY</Name>
                        <Value>Paradise City</Value>
                     </Property>
                     <Property>
                        <Name>PP_GENDER</Name>
                        <Value>M</Value>
                     </Property>
                     <Property>
                        <Name>PP_INTENTION</Name>
                        <Value>Chat about high-tech cars and fishing techniques</Value>
                     </Property>
                     <Property>
                        <Name>PP_INTERESTS</Name>
                        <Value>Online chat, cars, fishing</Value>
                     </Property>
                     <Property>
                        <Name>PP_MARITAL_STATUS</Name>
                        <Value>M</Value>
                     </Property>
                  </PublicProfile>
               </GetPublicProfile-Response>
            </TransactionContent>
         </Transaction>
         <Poll>F</Poll>
      </Session>
   </WV-CSP-Message>
```

C.15 Update Public Profile transaction

C.15.1 UpdatePublicProfile-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <UpdatePublicProfile-Request>
               <ClearPublicProfile>F</ClearPublicProfile>
               <PublicProfile>
                  <Property>
                     <Name>PP_FRIENDLY_NAME</Name>
                     <Value>John The Fisher</Value>
                  </Property>
                  <Property>
               </PublicProfile>
```

```
            </UpdatePublicProfile-Request>
          </TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.15.2   Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
          <SessionType>Inband</SessionType>
          <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
          <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
          </TransactionDescriptor>
          <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Status>
              <Result>
                <Code>200</Code>
                <Description>Successfully completed.</Description>
              </Result>
            </Status>
          </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.16   General search transaction

C.16.1   Search-Request (1st) primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
          <SessionType>Inband</SessionType>
          <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
          <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
          </TransactionDescriptor>
          <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Search-Request>
              <SearchPairList>
                <SearchElement>USER_LAST_NAME</SearchElement>
                <SearchString>Smith</SearchString>
                <SearchElement>USER_ONLINE_STATUS</SearchElement>
                <SearchString>T</SearchString>
              </SearchPairList>
              <SearchLimit>5</SearchLimit>
            </Search-Request>
          </TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.16.2   Search-Response (1st) primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
          <SessionType>Inband</SessionType>
          <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
```

```
            <TransactionDescriptor>
                <TransactionMode>Response</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <Search-Response>
                    <SearchID>0x23829381</SearchID>
                    <SearchFindings>7</SearchFindings>
                    <CompletionFlag>F</CompletionFlag>
                    <SearchIndex>6</SearchIndex>
                    <SearchResult>
                        <UserList>
                            <User>
                                <UserID>wv:he@there.com</UserID>
                                <FriendlyName>He</FriendlyName>
                            </User>
                            <User><UserID>wv:she@there.com</UserID></User>
                            <User>
                                <UserID>wv:matthias@salamander.com</UserID>
                                <FriendlyName>Matti</FriendlyName>
                            </User>
                            <User><UserID>wv:francisco@don.com</UserID></User>
                            <User>
                                <UserID>wv:john@smith.com</UserID>
                                <FriendlyName>Johnnie</FriendlyName>
                            </User>
                        </UserList>
                    </SearchResult>
                </Search-Response>
            </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.16.3   Search-Request (continued) primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12346@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <Search-Request>
                    <SearchID>0x23829381</SearchID>
                    <SearchIndex>6</SearchIndex>
                </Search-Request>
            </TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.16.4   Search-Response (continued) primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Response</TransactionMode>
                <TransactionID>IMApp01#12346@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <Search-Response>
                    <SearchFindings>7</SearchFindings>
```

```
                    <CompletionFlag>T</CompletionFlag>
                    <SearchIndex>7</SearchIndex>
                    <SearchResult>
                       <UserList>
                          <User>
                             <UserID>wv:mary@site.com</UserID>
                             <FriendlyName>Mary</FriendlyName>
                          </User>
                          <User><UserID>wv:anna@server.com</UserID></User>
                       </UserList>
                    </SearchResult>
                 </Search-Response>
              </TransactionContent>
           </Transaction>
           <Poll>F</Poll>
        </Session>
</WV-CSP-Message>
```

C.16.5   StopSearch-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12347@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <StopSearch-Request>
               <SearchID>0x23829381</SearchID>
            </StopSearch-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.16.6   Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12347@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Status>
               <Result>
                  <Code>200</Code>
               </Result>
            </Status>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.17   Advanced search transaction

C.17.1   Search-Request (1st) primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
```

```
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
         </SessionDescriptor>
         <Transaction>
            <TransactionDescriptor>
               <TransactionMode>Request</TransactionMode>
               <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
               <Search-Request>
                  <SearchPairList>
                     <SearchElement>USER_LAST_NAME</SearchElement>
                     <SearchString>Smith</SearchString>
                     <PairID>0</PairID>
                  </SearchPairList>
                  <SearchPairList>
                     <SearchElement>USER_FIRST_NAME</SearchElement>
                     <SearchString>John</SearchString>
                     <PairID>1</PairID>
                  </SearchPairList>
                  <SearchPairList>
                     <SearchElement>USER FIRST NAME</SearchElement>
                     <SearchString>Johnny</SearchString>
                     <PairID>2</PairID>
                  </SearchPairList>
                  <AdvancedCriteria>0+[1|2]</AdvancedCriteria>
                  <SearchLimit>5</SearchLimit>
               </Search-Request>
            </TransactionContent>
         </Transaction>
      </Session>
   </WV-CSP-Message>
```

C.17.2   Search-Response (1st) primitive

```
   <WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
      <Session>
         <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
         </SessionDescriptor>
         <Transaction>
            <TransactionDescriptor>
               <TransactionMode>Response</TransactionMode>
               <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
               <Search-Response>
                  <SearchID>0x23829382</SearchID>
                  <SearchFindings>1</SearchFindings>
                  <CompletionFlag>T</CompletionFlag>
                  <SearchIndex>1</SearchIndex>
                  <SearchResult>
                     <UserList>
                        <User>
                           <UserID>wv:john@smith.com</UserID>
                           <FriendlyName>Johnnie</FriendlyName>
                        <User>
                     </UserList>
                  </SearchResult>
               </Search-Response>
            </TransactionContent>
         </Transaction>
         <Poll>F</Poll>
      </Session>
   </WV-CSP-Message>
```

C.17.3   StopSearch-Request primitive

```
   <WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
      <Session>
         <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
```

```
            </SessionDescriptor>
            <Transaction>
               <TransactionDescriptor>
                  <TransactionMode>Request</TransactionMode>
                  <TransactionID>IMApp01#12346@NOK5110</TransactionID>
               </TransactionDescriptor>
               <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                  <StopSearch-Request>
                     <SearchID>0x23829382</SearchID>
                  </StopSearch-Request>
               </TransactionContent>
            </Transaction>
         </Session>
   </WV-CSP-Message>
```

C.17.4   Status primitive

```
   <WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
      <Session>
         <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
         </SessionDescriptor>
         <Transaction>
            <TransactionDescriptor>
               <TransactionMode>Response</TransactionMode>
               <TransactionID>IMApp01#12346@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
               <Status>
                  <Result>
                     <Code>200</Code>
                  </Result>
               </Status>
            </TransactionContent>
         </Transaction>
         <Poll>F</Poll>
      </Session>
   </WV-CSP-Message>
```

C.18   General invitation transaction

C.18.1   Invite-Request primitive

```
   <WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
      <Session>
         <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
         </SessionDescriptor>
         <Transaction>
            <TransactionDescriptor>
               <TransactionMode>Request</TransactionMode>
               <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
               <Invite-Request>
                  <InviteID>0x38382025</InviteID>
                  <InviteType>GR</InviteType>
                  <Sender>
                     <User><UserID>wv:me@there.com</UserID></User>
                  </Sender>
                  <Recipient>
                     <User><UserID>wv:he@there.com</UserID></User>
                     <User><UserID>wv:she@there.com</UserID></User>
                  </Recipient>
                  <GroupID>wv:john/partygroup@there.com</GroupID>
                  <InviteNote>Come to party! You have 10 minutes!</InviteNote>
                  <ScreenName>
                     <SName>WV</SName>
                     <GroupID>wv:john/partygroup@there.com</GroupID>
                  </ScreenName>
                  <Validity>600</Validity>
```

```
            </Invite-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.18.2   Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Status>
               <Result>
                  <Code>200</Code>
                  <Description>Successfully completed.</Description>
               </Result>
            </Status>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.18.3   InviteUser-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12346@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <InviteUser-Request>
               <InviteID>0x38382025</InviteID>
               <InviteType>GR</InviteType>
               <Sender>
                  <User>
                     <UserID>wv:me@there.com</UserID>
                     <FriendlyName>Me</FriendlyName>
                  </User>
               </Sender>
               <Recipient>
                  <User>
                     <UserID>wv:he@there.com</UserID>
                     <FriendlyName>He</FriendlyName>
                  </User>
               </Recipient>
               <GroupID>wv:john/partygroup@there.com</GroupID>
               <InviteNote>Come to party!</InviteNote>
               <Validity>600</Validity>
            </InviteUser-Request>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.18.4   Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12346@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Status>
               <Result>
                  <Code>200</Code>
                  <Description>Successfully completed.</Description>
               </Result>
            </Status>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.18.5   InviteUser-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12347@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <InviteUser-Response>
               <InviteID>0x38382025</InviteID>
               <Acceptance>T</Acceptance>
               <Sender>
                  <User><UserID>wv:he@there.com</UserID></User>
               </Sender>
               <Recipient>
                  <User><UserID>wv:me@there.com</UserID></User>
               </Recipient>
               <ResponseNote>OK, just a sec!</ResponseNote>
               <ScreenName>
                  <SName>Johnny</SName>
                  <GroupID>wv:john/partygroup@there.com</GroupID>
               </ScreenName>
            </InviteUser-Response>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.18.6   Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12347@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Status>
```

```
            <Result>
                <Code>200</Code>
                <Description>Successfully completed.</Description>
            </Result>
        </Status>
    </TransactionContent>
</Transaction>
<Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.18.7   Invite-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12348@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <Invite-Response>
                    <InviteID>0x38382025</InviteID>
                    <Acceptance>T</Acceptance>
                    <Sender>
                        <User>
                            <UserID>wv:he@there.com</UserID>
                            <FriendlyName>He</FriendlyName>
                        </User>
                    </Sender>
                    <Recipient>
                        <User>
                            <UserID>wv:me@there.com</UserID>
                            <FriendlyName>Me</FriendlyName>
                        </User>
                    </Recipient>

                    <InviteNote>OK, just a sec!</InviteNote>
                </Invite-Response>
            </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.18.8   Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Response</TransactionMode>
                <TransactionID>IMApp01#12348@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <Status>
                    <Result>
                        <Code>200</Code>
                        <Description>Successfully completed.</Description>
                    </Result>
                </Status>
            </TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.19 Recall invitation transaction

C.19.1 CancelInvite-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <CancelInvite-Request>
               <InviteID>0x38382025</InviteID>
               <Sender>
                  <User><UserID>wv:me@there.com</UserID></User>
               </Sender>
               <Recipient>
                  <User><UserID>wv:he@there.com</UserID></User>
               </Recipient>

               <InviteNote>Time is up!</InviteNote>
               <ScreenName>
                  <SName>WV</SName>
                  <GroupID>wv:john/partygroup@there.com</GroupID>
               </ScreenName>
            </CancelInvite-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.19.2 Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Status>
               <Result>
                  <Code>200</Code>
                  <Description>Successfully completed.</Description>
               </Result>
            </Status>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.19.3 CancelInviteUser-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
```

```
                <TransactionID>IMApp01#12346@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <CancelInviteUser-Request>
                    <InviteID>0x38382025</InviteID>
                    <Sender>
                        <User>
                            <UserID>wv:me@there.com</UserID>
                            <FriendlyName>Me</FriendlyName>
                        </User>
                    </Sender>
                    <Recipient>
                        <User>
                            <UserID>wv:he@there.com</UserID>
                            <FriendlyName>He</FriendlyName>
                        </User>
                    </Recipient>
                    <InviteNote>Time is up!</InviteNote>
                </CancelInviteUser-Request>
            </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.19.4   Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Response</TransactionMode>
                <TransactionID>IMApp01#12346@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <Status>
                    <Result>
                        <Code>200</Code>
                        <Description>Successfully completed.</Description>
                    </Result>
                </Status>
            </TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.20   Get map transaction

C.20.1   GetMap-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <GetMap-Request>
                    <PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
                        <GeoLocation>
                            <Longitude>35 24 15.652W</Longitude>
                            <Latitude>12 36 22.5N</Latitude>
                            <Accuracy>100</Accuracy>
                        </GeoLocation>
```

```
                            </PresenceSubList>
                        </GetMap-Request>
                    </TransactionContent>
                </Transaction>
            </Session>
        </WV-CSP-Message>
```

C.20.2 GetMap-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Response</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <GetMap-Response>
                    <Map>
                        <ContentType>image/jpg</ContentType>
                        <ContentEncoding>BASE64</ContentEncoding>
                        <ContentData>Base64EncodedDataHere</ContentData>
                    </Map>
                </GetMap-Response>
            </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.21 Verify ID transaction

C.21.1 VerifyID-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <VerifyID-Request>
                    <IDList>
                        <UserID>wv:john</UserID>
                        <UserID>wv:pam/friends</UserID>
                        <UserID>wv:pam/friends@outofmynet.com</UserID>
                        <ContactList>wv:/friends</ContactList>
                        <GroupID>wv:/managers@outofmynet.com</GroupID>
                        <Domain>baddomain.com<Domain/>
                    </IDList>
                </VerifyID-Request>
            </TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.21.2 Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
```

```
                <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Response</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <Status>
                    <Result>
                        <Code>201</Code>
                        <Description>Partially successful.</Description>
                        <DetailedResult>
                            <Code>531</Code>
                            <Description>Unknown user.</Description>
                            <UserID>wv:john@mynet.com</UserID>
                            <UserID>wv:pam/friends@mynet.com</UserID>
                            <UserID>wv:pam/friends@outofmynet.com</UserID>
                        </DetailedResult>
                        <DetailedResult>
                            <Code>200</Code>
                            <Description>Group exists</Description>
                            <GroupID>wv:/managers@outofmynet.com</GroupID>
                        </DetailedResult>
                        <DetailedResult>
                            <Code>700</Code>
                            <Description>Contact list does not exist</Description>
                            <ContactList>wv:/friends@mynet.com</ContactList>
                        </DetailedResult>
                        <DetailedResult>
                            <Code>404</Code>
                            <Description>Domain name not found</Description>
                            <Domain>baddomain.com<Domain/>
                        </DetailedResult>
                    </Result>
                </Status>
            </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.22 Subscribe/unsubscribe presence transaction

C.22.1 SubscribePresence-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <SubscribePresence-Request>
                    <ContactListIDList>
                        <ContactList>wv:john/ContactList-5@smith.com</ContactList>
                    </ContactListIDList>
                    <PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
                        <OnlineStatus/>
                        <Registration/>
                        <ClientInfo/>
                        <TimeZone/>
                        <GeoLocation/>
                        <Address/>
                        <FreeTextLocation/>
                        <PLMN/>
                        <CommCap/>
                        <UserAvailability/>
                        <PreferredContacts/>
                        <PreferredLanguage/>
                        <StatusText/>
```

```
                    <StatusMood/>
                    <Alias/>
                    <StatusContent/>
                    <ContactInfo/>
                </PresenceSubList>

            </SubscribePresence-Request>
        </TransactionContent>
    </Transaction>
    </Session>
</WV-CSP-Message>
```

C.22.2   Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Response</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <Status>
                    <Result>
                        <Code>200</Code>
                        <Description>Successfully completed.</Description>
                    </Result>
                </Status>
            </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.22.3   PresenceNotification-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12346@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <PresenceNotification-Request>
                    <Presence>
                        <UserID>wv:he@there.com</UserID>
                        <PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
                            <OnlineStatus>
                                <Qualifier>T</Qualifier>
                                <PresenceValue>T</PresenceValue>
                                <ClientID>http://semc/111222333</ClientID>
                            </OnlineStatus>
                            <Registration>
                                <Qualifier>T</Qualifier>
                                <PresenceValue>T</PresenceValue>
                                <ClientID>http://semc/111222333</ClientID>
                            </Registration>
                            <ClientInfo>
                                <Qualifier>T</Qualifier>
                                <ClientContentLimit>
                                    <AcceptedContentType>
                                        <ContentType>image/jpeg</ContentType>
                                        <AcceptedRichContentLength>307200</AcceptedRichContentLength>
                                        <ContentPolicy>R</ContentPolicy>
                                        <ContentPolicyLimit>307201</ContentPolicyLimit>
```

```
                    </AcceptedContentType>
                    <AcceptedContentType>
                        <ContentType>multipart/mixed</ContentType>
                        <AcceptedRichContentLength>1024000</AcceptedRichContentLength>
                        <ContentPolicy>C</ContentPolicy>
                        <ContentPolicyLimit>1024001</ContentPolicyLimit>
                    </AcceptedContentType>
                    <AcceptedTextContentLength>10240</AcceptedTextContentLength>
                    <AcceptedTransferEncoding>BASE64</AcceptedTransferEncoding>
                    <MaxPullLength>5242880</MaxPullLength>
                    <MaxPushLength>102400</MaxPushLength>
                    <PlainTextCharset>4</PlainTextCharset>
                    <PlainTextCharset>62</PlainTextCharset>
                    <PlainTextCharset>106</PlainTextCharset>
                </ClientContentLimit>
                <ClientType>MOBILE_PHONE</ClientType>
                <DevManufacturer>ABC Company</DevManufacturer>
                <Model>xyz200</Model>
                <Language>fin</Language>
                <ClientIMPriority>32767</ClientIMPriority>
                <ApplicationID>MyChessGamev1.1b123</ApplicationID>
                <ClientID>http://semc/111222333</ClientID>
            </ClientInfo>
            <TimeZone>
                <Qualifier>T</Qualifier>
                <Zone>+02</Zone>
            </TimeZone>
            <ClientID>http://semc/111222333</ClientID>
            <GeoLocation>
                <Qualifier>T</Qualifier>
                <Longitude>35 24 15.652W</Longitude>
                <Latitude>12 36 22.5N</Latitude>
                <Accuracy>200</Accuracy>
                <ClientID>http://semc/111222333</ClientID>
                </GeoLocation>
            <Address>
                <Qualifier>T</Qualifier>
                <Country>GB</Country>
                <City>London</City>
                <ClientID>http://semc/111222333</ClientID>
            </Address>
            <FreeTextLocation>
                <Qualifier>T</Qualifier>
                <PresenceValue>At home</PresenceValue>
                <ClientID>http://semc/111222333</ClientID>
            </FreeTextLocation>
            <PLMN>
                <Qualifier>T</Qualifier>
                <PresenceValue>Sonera</PresenceValue>
                <ClientID>http://semc/111222333</ClientID>
            </PLMN>
            <CommCap>
                <Qualifier>T</Qualifier>
                <CommC>
                    <Cap>CALL</Cap>
                    <Status>OPEN</Status>
                    <Contact>+35804123123</Contact>
                    <Note>I am using this phone during office hours</Note>
                </CommC>
                <CommC>
                    <Cap>CALL</Cap>
                    <Status>CLOSED</Status>
                    <Contact>+35805456456</Contact>
                    <Note>
            I am using this phone outside office hours</Note>
                </CommC>
                <CommC>
                    <Cap>IM</Cap>
                    <Status>OPEN</Status>
                    <Contact>he@there.com</Contact>
                    <Note>My IM-application is now online</Note>
                </CommC>
                <ClientID>http://semc/111222333</ClientID>
            </CommCap>
            <UserAvailability>
                <Qualifier>T</Qualifier>
                <PresenceValue>AVAILABLE</PresenceValue>
            </UserAvailability>
```

```
                        <PreferredContacts>
                            <Qualifier>T</Qualifier>
                            <AddrPref>
                                <PrefC>CALL</PrefC>
                                <Caddr>+35804123123</Caddr>
                                <Cstatus>OPEN</Cstatus>
                                <Cname>Home Phone</Cname>
                                <Cpriority>10</Cpriority>
                            </AddrPref>
                            <AddrPref>
                                <PrefC>SMS</PrefC>
                                <Caddr>+35804123123</Caddr>
                                <Cstatus>OPEN</Cstatus>
                                <Cname>Home Messaging</Cname>
                                <Cpriority>20</Cpriority>
                            </AddrPref>
                            <AddrPref>
                                <PrefC>IM</PrefC>
                                <Caddr>ari@im.com</Caddr>
                                <Cstatus>CLOSED</Cstatus>
                                <Cname>Private IM</Cname>
                                <Cpriority>30</Cpriority>
                            </AddrPref>
                        </PreferredContacts>
                        <PreferredLanguage>
                            <Qualifier>T</Qualifier>
                            <PresenceValue>fin</PresenceValue>
                        </PreferredLanguage>
                        <StatusText>
                            <Qualifier>T</Qualifier>
                            <PresenceValue>Busy editing a document</PresenceValue>
                        </StatusText>
                        <StatusMood>
                            <Qualifier>T</Qualifier>
                            <PresenceValue>SLEEPY</PresenceValue>
                        </StatusMood>
                        <Alias>
                            <Qualifier>T</Qualifier>
                            <PresenceValue>He</PresenceValue>
                        </Alias>
                        <StatusContent>
                            <Qualifier>T</Qualifier>
                            <ReferredContent>http://www.foo.com/MyLogo</ReferredContent>
                        </StatusContent>
                        <ContactInfo>
                            <Qualifier>T</Qualifier>
                            <ReferredvCard>http://www.foo.com/MyCard</ReferredvCard>
                        </ContactInfo>
                    </PresenceSubList>
                </Presence>
            </PresenceNotification-Request>
        </TransactionContent>
    </Transaction>
    <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.22.4 Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
    <Transaction>
        <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12346@NOK5110</TransactionID>
        </TransactionDescriptor>
        <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Status>
                <Result>
                    <Code>200</Code>
                    <Description>Successfully completed.</Description>
                </Result>
```

```
                </Status>
            </TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.22.5   UnsubscribePresence-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12347@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <UnsubscribePresence-Request>
                    <ContactListIDList>
                        <ContactList>wv:john/ContactList-5@smith.com</ContactList>
                    </ContactListIDList>
                </UnsubscribePresence-Request>
            </TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.22.6   Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Response</TransactionMode>
                <TransactionID>IMApp01#12347@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <Status>
                    <Result>
                        <Code>200</Code>
                        <Description>Successfully completed.</Description>
                    </Result>
                </Status>
            </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.23   Get watcher list transaction

C.23.1   GetWatcherList-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
```

```
<TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
    <GetWatcherList-Request>
        <HistoryPeriod>0</HistoryPeriod>
        <MaxWatcherList>200</MaxWatcherList>
    </GetWatcherList-Request>
</TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.23.2 GetWatcherList-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Response</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <GetWatcherList-Response>
                    <HistoryPeriod>172800</HistoryPeriod>
                    <Watcher>
                            <UserID>wv:he@there.com</UserID>
                            <FriendlyName>He</FriendlyName>
                        <WatcherStatus>CURRENT_SUBSCRIBER</WatcherStatus>
                    </Watcher>
                    <Watcher>
                            <UserID>wv:she@there.com</UserID>
                            <FriendlyName>She</FriendlyName>
                        <WatcherStatus>FORMER_SUBSCRIBER</WatcherStatus>
                    </Watcher>
                    <Watcher>
                            <UserID>wv:me@there.com</UserID>
                        <WatcherStatus>PRESENCE_ACCESS</WatcherStatus>
                    </Watcher>
                </GetWatcherList-Response>
            </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.24 Get presence transaction

C.24.1 GetPresence-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <GetPresence-Request>
                    <UserIDList>
                        <UserID>wv:he@there.com</UserID>
                        <UserID>wv:she@there.com</UserID>
                    </UserIDList>
                    <PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
                        <OnlineStatus/>
                        <Registration/>
                        <ClientInfo/>
                        <TimeZone/>
```

```
                    <GeoLocation/>
                    <Address/>
                    <FreeTextLocation/>
                    <PLMN/>
                    <CommCap/>
                    <UserAvailability/>
                    <PreferredContacts/>
                    <PreferredLanguage/>
                    <StatusText/>
                    <StatusMood/>
                    <Alias/>
                    <StatusContent/>
                    <ContactInfo/>
                    <InfoLink/>
                </PresenceSubList>
            </GetPresence-Request>
        </TransactionContent>
    </Transaction>
  </Session>
</WV-CSP-Message>
```

C.24.2 GetPresence-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
  <Session>
    <SessionDescriptor>
        <SessionType>Inband</SessionType>
        <SessionID>im.user.com#48815@server.com</SessionID>
    </SessionDescriptor>
    <Transaction>
        <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
        </TransactionDescriptor>
        <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <GetPresence-Response>
                <Result>
                    <Code>200</Code>
                    <Description>Successfully completed.</Description>
                </Result>
                <Presence>
                    <UserID>wv:he@there.com</UserID>
                    <PresenceSubList xmlns="http://www.openmobilealliance/DTD/IMPS-PA1.3">
                        <OnlineStatus>
                            <Qualifier>T</Qualifier>
                            <PresenceValue>T</PresenceValue>
                            <ClientID>http://semc/111222333</ClientID>
                        </OnlineStatus>
                        <Registration>
                            <Qualifier>T</Qualifier>
                            <PresenceValue>T</PresenceValue>
                            <ClientID>http://semc/111222333</ClientID>
                        </Registration>
                        <ClientInfo>
                            <Qualifier>T</Qualifier>
                            <ClientContentLimit>
                                <AcceptedContentType>
                                    <ContentType>image/jpeg</ContentType>
                                    <AcceptedRichContentLength>307200</AcceptedRichContentLength>
                                    <ContentPolicy>R</ContentPolicy>
                                    <ContentPolicyLimit>307201</ContentPolicyLimit>
                                </AcceptedContentType>
                                <AcceptedContentType>
                                    <ContentType>multipart/mixed</ContentType>
                                    <AcceptedRichContentLength>1024000</AcceptedRichContentLength>
                                    <ContentPolicy>C</ContentPolicy>
                                    <ContentPolicyLimit>1024001</ContentPolicyLimit>
                                </AcceptedContentType>
                                <AcceptedTextContentLength>10240</AcceptedTextContentLength>
                                <AcceptedTransferEncoding>BASE64</AcceptedTransferEncoding>
                                <MaxPullLength>5242880</MaxPullLength>
                                <MaxPushLength>102400</MaxPushLength>
                                <PlainTextCharset>4</PlainTextCharset>
                                <PlainTextCharset>62</PlainTextCharset>
                                <PlainTextCharset>106</PlainTextCharset>
                            </ClientContentLimit>
```

```
        <ClientType>MOBILE_PHONE</ClientType>
        <DevManufacturer>ABC Company</DevManufacturer>
        <Model>xyz200</Model>
        <Language>fin</Language>
        <ClientIMPriority>32767</ClientIMPriority>
        <ApplicationID>MyChessGamev1.1b123</ApplicationID>
        <ClientID>http://semc/111222333</ClientID>
    </ClientInfo>
    <TimeZone>
        <Qualifier>T</Qualifier>
        <Zone>+02</Zone>
        <ClientID>http://semc/111222333</ClientID>
    </TimeZone>
    <GeoLocation>
        <Qualifier>T</Qualifier>
        <Longitude>35 24 15.652W</Longitude>
        <Latitude>12 36 22.5N</Latitude>
        <Accuracy>200</Accuracy>
        <ClientID>http://semc/111222333</ClientID>
        </GeoLocation>
    <Address>
        <Qualifier>T</Qualifier>
        <Country>GB</Country>
        <City>London</City>
        <ClientID>http://semc/111222333</ClientID>
    </Address>
    <FreeTextLocation>
        <Qualifier>T</Qualifier>
        <PresenceValue>At home</PresenceValue>
        <ClientID>http://semc/111222333</ClientID>
    </FreeTextLocation>
    <PLMN>
        <Qualifier>T</Qualifier>
        <PresenceValue>Sonera</PresenceValue>
        <ClientID>http://semc/111222333</ClientID>
    </PLMN>
    <CommCap>
        <Qualifier>T</Qualifier>
            <CommC>
            <Cap>CALL</Cap>
            <Status>OPEN</Status>
            <Contact>+35804123123</Contact>
            <Note>I am using this phone during office hours</Note>
        </CommC>
        <CommC>
            <Cap>CALL</Cap>
            <Status>CLOSED</Status>
            <Contact>+35805456456</Contact>
            <Note>I am using this phone outside office hours</Note>
        </CommC>
        <CommC>
            <Cap>IM</Cap>
            <Status>OPEN</Status>
            <Contact>he@there.com</Contact>
            <Note>My IM-application is now online</Note>
        </CommC>
        <CommC>
            <Cap>IM</Cap>
            <Status>OPEN</Status>
            <Contact>he@there.com</Contact>
            <Note>My IM-application is now online</Note>
        </CommC>
        <ClientID>http://semc/111222333</ClientID>
    </CommCap>
    <UserAvailability>
        <Qualifier>T</Qualifier>
        <PresenceValue>AVAILABLE</PresenceValue>
    </UserAvailability>
    <PreferredContacts>
        <Qualifier>T</Qualifier>
        <AddrPref>
            <PrefC>CALL</PrefC>
            <Caddr>+35804123123</Caddr>
            <Cstatus>OPEN</Cstatus>
            <Cname>Home Phone</Cname>
            <Cpriority>10</Cpriority>
        </AddrPref>
        <AddrPref>
```

```
                    <PrefC>SMS</PrefC>
                    <Caddr>+35804123123</Caddr>
                    <Cstatus>OPEN</Cstatus>
                    <Cname>Home Messaging</Cname>
                    <Cpriority>20</Cpriority>
                </AddrPref>
                <AddrPref>
                    <PrefC>IM</PrefC>
                    <Caddr>ari@im.com</Caddr>
                    <Cstatus>CLOSED</Cstatus>
                    <Cname>Private IM</Cname>
                    <Cpriority>30</Cpriority>
                </AddrPref>
            </PreferredContacts>
            <PreferredLanguage>
                <Qualifier>T</Qualifier>
                <PresenceValue>fin</PresenceValue>
            </PreferredLanguage>
            <StatusText>
                <Qualifier>T</Qualifier>
                <PresenceValue>Busy editing a document</PresenceValue>
            </StatusText>
            <StatusMood>
                <Qualifier>T</Qualifier>
                <PresenceValue>SLEEPY</PresenceValue>
            </StatusMood>
            <Alias>
                <Qualifier>T</Qualifier>
                <PresenceValue>He</PresenceValue>
            </Alias>
            <StatusContent>
                <Qualifier>T</Qualifier>
                <ReferredContent>http://www.foo.com/MyLogo</ReferredContent>
                <ContentType>image/gif</ContentType>
            </StatusContent>
            <ContactInfo>
                <Qualifier>T</Qualifier>
                <ReferredvCard>http://www.foo.com/MyCard</ReferredvCard>
            </ContactInfo>
            <InfoLink>
                <Qualifier>T</Qualifier>
                <Inf_link>
                    <Link>http://www.myserviceprovider.com/myHomePage</Link>
                    <Text>This is my homepage</Text>
                    <ContentType>text/html</ContentType>
                </Inf_link>
            </InfoLink>
        </PresenceSubList>
    </Presence>
    <Presence>
        <UserID>wv:she@there.com</UserID>
        <PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
            <OnlineStatus>
                <Qualifier>T</Qualifier>
                <PresenceValue>T</PresenceValue>
                <ClientID>http://semc/111222334</ClientID>
            </OnlineStatus>
            <Registration>
                <Qualifier>T</Qualifier>
                <PresenceValue>T</PresenceValue>
                <ClientID>http://semc/111222334</ClientID>
            </Registration>
            <ClientInfo>
                <Qualifier>T</Qualifier>
                <ClientContentLimit>
                    <AcceptedContentType>
                        <ContentType>image/jpeg</ContentType>
                        <AcceptedRichContentLength>307200</AcceptedRichContentLength>
                        <ContentPolicy>R</ContentPolicy>
                        <ContentPolicyLimit>307201</ContentPolicyLimit>
                    </AcceptedContentType>
                    <AcceptedContentType>
                        <ContentType>multipart/mixed</ContentType>
                        <AcceptedRichContentLength>1024000</AcceptedRichContentLength>
                        <ContentPolicy>C</ContentPolicy>
                        <ContentPolicyLimit>1024001</ContentPolicyLimit>
                    </AcceptedContentType>
                    <AcceptedTextContentLength>10240</AcceptedTextContentLength>
```

```
            <AcceptedTransferEncoding>BASE64</AcceptedTransferEncoding>
            <MaxPullLength>5242880</MaxPullLength>
            <MaxPushLength>102400</MaxPushLength>
            <PlainTextCharset>4</PlainTextCharset>
            <PlainTextCharset>62</PlainTextCharset>
            <PlainTextCharset>106</PlainTextCharset>
        </ClientContentLimit>
        <ClientType>MOBILE_PHONE</ClientType>
        <DevManufacturer>ABC Company</DevManufacturer>
        <Model>xyz200</Model>
        <Language>fin</Language>
        <ClientID>http://semc/111222334</ClientID>
    </ClientInfo>
    <TimeZone>
        <Qualifier>T</Qualifier>
        <Zone>+02</Zone>
        <ClientID>http://semc/111222334</ClientID>
    </TimeZone>
    <GeoLocation>
        <Qualifier>T</Qualifier>
        <Longitude>35 24 15.652W</Longitude>
        <Latitude>12 36 22.5N</Latitude>
        <Accuracy>200</Accuracy>
        <ClientID>http://semc/111222334</ClientID>
        </GeoLocation>
    <Address>
        <Qualifier>T</Qualifier>
        <Country>GB</Country>
        <City>London</City>
        <ClientID>http://semc/111222334</ClientID>
    </Address>
    <FreeTextLocation>
        <Qualifier>T</Qualifier>
        <PresenceValue>At home</PresenceValue>
        <ClientID>http://semc/111222334</ClientID>
    </FreeTextLocation>
    <PLMN>
        <Qualifier>T</Qualifier>
        <PresenceValue>Sonera</PresenceValue>
        <ClientID>http://semc/111222334</ClientID>
    </PLMN>
    <CommCap>
        <Qualifier>T</Qualifier>
        <CommC>
            <Cap>CALL</Cap>
            <Status>OPEN</Status>
            <Contact>+35804123123</Contact>
            <Note>I am using this phone during office hours</Note>
        </CommC>
        <CommC>
            <Cap>CALL</Cap>
            <Status>CLOSED</Status>
            <Contact>+35805456456</Contact>
            <Note>I am using this phone outside office hours</Note>
        </CommC>
        <CommC>
            <Cap>IM</Cap>
            <Status>OPEN</Status>
            <Contact>she@there.com</Contact>
            <Note>My IM-application is now online</Note>
        </CommC>
        <ClientID>http://semc/111222334</ClientID>
    </CommCap>
    <UserAvailability>
        <Qualifier>T</Qualifier>
        <PresenceValue>AVAILABLE</PresenceValue>
    </UserAvailability>
    <PreferredContacts>
        <Qualifier>T</Qualifier>
        <AddrPref>
            <PrefC>CALL</PrefC>
            <Caddr>+35804123123</Caddr>
            <Cstatus>OPEN</Cstatus>
            <Cname>Business Phone</Cname>
            <Cpriority>10</Cpriority>
        </AddrPref>
        <AddrPref>
            <PrefC>SMS</PrefC>
```

```
                            <Caddr>+35804123123</Caddr>
                            <Cstatus>OPEN</Cstatus>
                            <Cname>Business Messaging</Cname>
                            <Cpriority>20</Cpriority>
                        </AddrPref>
                        <AddrPref>
                            <PrefC>IM</PrefC>
                            <Caddr>ari@im.com</Caddr>
                            <Cstatus>CLOSED</Cstatus>
                            <Cname>Private IM</Cname>
                            <Cpriority>30</Cpriority>
                        </AddrPref>
                    </PreferredContacts>
                    <PreferredLanguage>
                        <Qualifier>T</Qualifier>
                        <PresenceValue>fin</PresenceValue>
                    </PreferredLanguage>
                    <StatusText>
                        <Qualifier>T</Qualifier>
                        <PresenceValue>Busy editing a document</PresenceValue>
                    </StatusText>
                    <StatusMood>
                        <Qualifier>T</Qualifier>
                        <PresenceValue>SLEEPY</PresenceValue>
                    </StatusMood>
                    <Alias>
                        <Qualifier>T</Qualifier>
                        <PresenceValue>She</PresenceValue>
                    </Alias>
                    <StatusContent>
                        <Qualifier>T</Qualifier>
                        <DirectContent>BASE64EncodedDataHere</DirectContent>
                        <ContentType>image/gif</ContentType>
                    </StatusContent>
                    <ContactInfo>
                        <Qualifier>T</Qualifier>
                        <ContainedvCard>vCardDataHere</ContainedvCard>
                    </ContactInfo>
                    <InfoLink>
                        <Qualifier>T</Qualifier>
                        <Inf_link>
                            <Link>http://www.serviceprovider.com/myHomePage</Link>
                            <Text>This is my homepage</Text>
                            <ContentType>text/html</ContentType>
                        </Inf_link>
                    </InfoLink>
                </PresenceSubList>
            </Presence>
        </GetPresence-Response>
      </TransactionContent>
    </Transaction>
    <Poll>F</Poll>
  </Session>
</WV-CSP-Message>
```

C.25 Reactive presence authorization transaction

C.25.1 PresenceAuth-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
  <Session>
    <SessionDescriptor>
      <SessionType>Inband</SessionType>
      <SessionID>im.user.com#48815@server.com</SessionID>
    </SessionDescriptor>
    <Transaction>
      <TransactionDescriptor>
        <TransactionMode>Request</TransactionMode>
        <TransactionID>IMApp01#12345@NOK5110</TransactionID>
      </TransactionDescriptor>
      <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
        <PresenceAuth-Request>
          <UserID>wv:matthias@salamander.com</UserID>
          <PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
            <OnlineStatus/>
```

```
                        <Registration/>
                        <ClientInfo/>
                        <TimeZone/>
                        <GeoLocation/>
                        <Address/>
                        <FreeTextLocation/>
                        <PLMN/>
                        <CommCap/>
                        <UserAvailability/>
                        <PreferredContacts/>
                        <PreferredLanguage/>
                        <StatusText/>
                        <StatusMood/>
                        <Alias/>
                        <StatusContent/>
                        <ContactInfo/>
                    </PresenceSubList>
                </PresenceAuth-Request>
            </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.25.2   Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Response</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <Status>
                    <Result>
                        <Code>200</Code>
                    </Result>
                </Status>
            </TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.26   Update presence transaction

C.26.1   UpdatePresence-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <UpdatePresence-Request>
                    <PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
                        <StatusText>
                            <Qualifier>T</Qualifier>
                            <PresenceValue>on the way home</PresenceValue>
                        </StatusText>
                        <StatusMood>
                            <Qualifier>T</Qualifier>
                            <PresenceValue>HAPPY</PresenceValue>
```

```
                    </StatusMood>
                </PresenceSubList>
            </UpdatePresence-Request>
        </TransactionContent>
    </Transaction>
  </Session>
</WV-CSP-Message>
```

C.26.2   Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
  <Session>
     <SessionDescriptor>
        <SessionType>Inband</SessionType>
        <SessionID>im.user.com#48815@server.com</SessionID>
     </SessionDescriptor>
     <Transaction>
        <TransactionDescriptor>
           <TransactionMode>Response</TransactionMode>
           <TransactionID>IMApp01#12345@NOK5110</TransactionID>
        </TransactionDescriptor>
        <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
           <Status>
               <Result>
                  <Code>200</Code>
                  <Description>Successfully completed.</Description>
               </Result>
           </Status>
        </TransactionContent>
     </Transaction>
     <Poll>F</Poll>
  </Session>
</WV-CSP-Message>
```

C.27   Send message transaction

C.27.1   SendMessage-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
  <Session>
     <SessionDescriptor>
        <SessionType>Inband</SessionType>
        <SessionID>im.user.com#48815@server.com</SessionID>
     </SessionDescriptor>
     <Transaction>
        <TransactionDescriptor>
           <TransactionMode>Request</TransactionMode>
           <TransactionID>IMApp01#12345@NOK5110</TransactionID>
        </TransactionDescriptor>
        <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
           <SendMessage-Request>
               <DeliveryReport>T</DeliveryReport>
               <MessageInfo>
                  <ContentType>text/plain</ContentType>
                  <ContentEncoding>None</ContentEncoding>
                  <ContentSize>58</ContentSize>
                  <Recipient>
                     <User><UserID>wv:he@there.com</UserID></User>
                     <Group>
                        <ScreenName>
                           <SName>Wicked Vicky</SName>
                           <GroupID>wv:john/chatgroup@there.com</GroupID>
                        </ScreenName>
                     </Group>
                     <ContactList>wv:john/My_friends@smith.com</ContactList>
                  </Recipient>
                  <Sender>
                     <User><UserID>wv:john@smith.com</UserID></User>
                  </Sender>
                  <Font>
                     <Size>Big</Size>
                     <Style>Bold</Style>
                     <Style>Italic</Style>
                     <Color>Red</Color>
                  </Font>
```

```
                <Validity>600</Validity>
            </MessageInfo>
            <ContentData>Hurry up; they are ringing the bells in the WV
already...</ContentData>
         </SendMessage-Request>
      </TransactionContent>
   </Transaction>
  </Session>
</WV-CSP-Message>
```

C.27.2   SendMessage-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <SendMessage-Response>
               <Result>
                  <Code>200</Code>
                  <Description>Successfully completed.</Description>
               </Result>
               <MessageID>0x0000f132</MessageID>
            </SendMessage-Response>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.28   Set delivery method transaction

C.28.1   SetDeliveryMethod-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <SetDeliveryMethod-Request>
               <DeliveryMethod>P</DeliveryMethod>
               <GroupID>wv:/chatgroup@server.com</GroupID>
               <GroupContentLimit>2048</GroupContentLimit>
            </SetDeliveryMethod-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.28.2   Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
```

```
<Transaction>
   <TransactionDescriptor>
      <TransactionMode>Response</TransactionMode>
      <TransactionID>IMApp01#12345@NOK5110</TransactionID>
   </TransactionDescriptor>
   <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
      <Status>
         <Result>
            <Code>200</Code>
            <Description>Successfully completed.</Description>
         </Result>
      </Status>
   </TransactionContent>
</Transaction>
<Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.29 Get list of undelivered messages transaction

C.29.1 GetMessageList-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <GetMessageList-Request>
               <GroupID>wv:john/chatgroup@there.com</GroupID>
               <MessageCount>5</MessageCount>
            </GetMessageList-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.29.2 GetMessageList-Response primtive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <GetMessageList-Response>
               <MessageInfoList>
                  <MessageInfo>
                     <MessageID>0x0000f132</MessageID>
                     <ContentType>text/plain</ContentType>
                     <ContentEncoding>None</ContentEncoding>
                     <ContentSize>41</ContentSize>
                     <Recipient>
                        <Group>
                           <ScreenName>
                              <SName>Johnnie</SName>
                              <GroupID>wv:john/chatgroup@there.com</GroupID>
                           </ScreenName>
                        </Group>
                     </Recipient>
                     <Sender>
```

```
                <Group>
                    <ScreenName>
                        <SName>Wicked Vicky</SName>
                        <GroupID>wv:john/chatgroup@there.com</GroupID>
                    </ScreenName>
                </Group>
            </Sender>
            <DateTime>20010925T1340Z</DateTime>
            <Validity>600</Validity>
        </MessageInfo>
        <MessageInfo>
            <MessageID>0x0000f133</MessageID>
            <ContentType>text/plain</ContentType>
            <ContentEncoding>None</ContentEncoding>
            <ContentSize>20</ContentSize>
            <Recipient>
                <Group>
                    <ScreenName>
                        <SName>Johnnie</SName>
                        <GroupID>wv:john/chatgroup@there.com</GroupID>
                    </ScreenName>
                </Group>
            </Recipient>
            <Sender>
                <Group>
                    <ScreenName>
                        <SName>Wicked Vicky</SName>
                        <GroupID>wv:john/chatgroup@there.com</GroupID>
                    </ScreenName>
                </Group>
            </Sender>
            <DateTime>20010925T1342Z</DateTime>
            <Validity>600</Validity>
        </MessageInfo>
        <MessageInfo>
            <MessageID>0x0000f134</MessageID>
            <ContentType>text/plain</ContentType>
            <ContentEncoding>None</ContentEncoding>
            <ContentSize>184</ContentSize>
            <Recipient>
                <User>
                    <UserID>wv:he@there.com</UserID>
                    <FriendlyName>Hhe</FriendlyName>
                </User>
                <User>
                    <UserID>wv:she@there.com</UserID>
                    <FriendlyName>She</FriendlyName>
                    <ClientID>
                        http://semc/111222333
                    </ClientID>
                </User>
                <User>
                    <UserID>wv:somebody@somewhere.com</UserID>
                    <ClientID>
                        http://semc/111222333
                    </ClientID>
                </User>
            </Recipient>
            <Sender>
                <User>
                    <UserID>wv:me@there.com</UserID>
                    <FriendlyName>Me, myself and I</FriendlyName>
                </User>
            </Sender>
            <DateTime>20050522T1328Z</DateTime>
            <Validity>86400</Validity>
        </MessageInfo>
    </MessageInfoList>
</GetMessageList-Response>
        </TransactionContent>
    </Transaction>
    <Poll>F</Poll>
</Session>
</WV-CSP-Message>
```

C.30 Rejecting a message (notify/get method only) transaction

C.30.1 RejectMessage-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <RejectMessage-Request>
               <MessageID>0x0000f132</MessageID>
            </RejectMessage-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.30.2 Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Status>
               <Result>
                  <Code>200</Code>
                  <Description>Successfully completed.</Description>
               </Result>
            </Status>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.31 Message notification (notify/get method only) transaction

C.31.1 MessageNotification primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <MessageNotification>
               <MessageInfo>
                  <MessageID>0x0000f132</MessageID>
                  <ContentType>text/plain</ContentType>
                  <ContentEncoding>None</ContentEncoding>
                  <ContentSize>189</ContentSize>
                  <Recipient>
```

```
                        <Group>
                            <ScreenName>
                                <SName>Johnnie</SName>
                                <GroupID>wv:john/chatgroup@there.com</GroupID>
                            </ScreenName>
                        </Group>
                    </Recipient>
                    <Sender>
                        <Group>
                            <ScreenName>
                                <SName>Wicked Vicky</SName>
                                <GroupID>wv:john/chatgroup@there.com</GroupID>
                            </ScreenName>
                        </Group>
                    </Sender>
                    <DateTime>20010925T1340Z</DateTime>
                    <Validity>600</Validity>
                </MessageInfo>
            </MessageNotification>
        </TransactionContent>
    </Transaction>
    <Poll>F</Poll>
  </Session>
</WV-CSP-Message>
```

C.31.2   Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
  <Session>
    <SessionDescriptor>
      <SessionType>Inband</SessionType>
      <SessionID>im.user.com#48815@server.com</SessionID>
    </SessionDescriptor>
    <Transaction>
      <TransactionDescriptor>
        <TransactionMode>Response</TransactionMode>
        <TransactionID>IMApp01#12345@NOK5110</TransactionID>
      </TransactionDescriptor>
      <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
        <Status>
          <Result>
            <Code>200</Code>
            <Description>Successfully completed.</Description>
          </Result>
        </Status>
      </TransactionContent>
    </Transaction>
  </Session>
</WV-CSP-Message>
```

C.32   Retrieving a message (get/notify method) transaction

C.32.1   GetMessage-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
  <Session>
    <SessionDescriptor>
      <SessionType>Inband</SessionType>
      <SessionID>im.user.com#48815@server.com</SessionID>
    </SessionDescriptor>
    <Transaction>
      <TransactionDescriptor>
        <TransactionMode>Request</TransactionMode>
        <TransactionID>IMApp01#12345@NOK5110</TransactionID>
      </TransactionDescriptor>
      <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
        <GetMessage-Request>
          <MessageID>0x0000f132</MessageID>
        </GetMessage-Request>
      </TransactionContent>
    </Transaction>
  </Session>
</WV-CSP-Message>
```

C.32.2   GetMessage-Response primtive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <GetMessage-Response>
               <MessageInfo>
                  <MessageID>0x0000f132</MessageID>
                  <ContentType>text/plain</ContentType>
                  <ContentEncoding>None</ContentEncoding>
                  <ContentSize>41</ContentSize>
                  <Recipient>
                     <Group>
                        <ScreenName>
                           <SName>Johnnie</SName>
                           <GroupID>wv:john/chatgroup@there.com</GroupID>
                        </ScreenName>
                     </Group>
                  </Recipient>
                  <Sender>
                     <Group>
                        <ScreenName>
                           <SName>Wicked Vicky</SName>
                           <GroupID>wv:john/chatgroup@there.com</GroupID>
                        </ScreenName>
                     </Group>
                  </Sender>
                  <DateTime>20010925T1340Z</DateTime>
                  <Validity>600</Validity>
               </MessageInfo>
               <ContentData>Hi guys, just arrived... How is it going?</ContentData>
            </GetMessage-Response>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.32.3   MessageDelivered primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12346@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <MessageDelivered>
               <MessageID>0x0000f132</MessageID>
            </MessageDelivered>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.32.4   Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
```

```
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12346@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Status>
               <Result>
                  <Code>200</Code>
                  <Description>Successfully completed.</Description>
               </Result>
            </Status>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.33　Delivering a message (push method) transaction

C.33.1　NewMessage primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <NewMessage>
               <MessageInfo>
                  <MessageID>0x0000f132</MessageID>
                  <ContentType>text/plain</ContentType>
                  <ContentEncoding>None</ContentEncoding>
                  <ContentSize>41</ContentSize>
                  <Recipient>
                     <Group>
                        <ScreenName>
                           <SName>Johnnie</SName>
                           <GroupID>wv:john/chatgroup@there.com</GroupID>
                        </ScreenName>
                     </Group>
                  </Recipient>
                  <Sender>
                     <Group>
                        <ScreenName>
                           <SName>Wicked Vicky</SName>
                           <GroupID>wv:john/chatgroup@there.com</GroupID>
                        </ScreenName>
                     </Group>
                  </Sender>
                  <DateTime>20010925T1340Z</DateTime>
                  <Font>
                     <Size>Big</Size>
                     <Style>Bold</Style>
                     <Style>Italic</Style>
                     <Color>Red</Color>
                  </Font>
                  <Validity>600</Validity>
               </MessageInfo>
               <ContentData>Hi guys, just arrived... How is it going?</ContentData>
            </NewMessage>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.33.2 MessageDelivered primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <MessageDelivered>
               <MessageID>0x0000f132</MessageID>
            </MessageDelivered>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.34 Delivery Report transaction

C.34.1 DeliveryReport-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <DeliveryReport-Request>
               <Result>
                  <Code>200</Code>
                  <Description>Successfully completed.</Description>
               </Result>
               <DeliveryTime>20010925T1341Z</DeliveryTime>
               <MessageInfo>
                  <MessageID>0x0000f132</MessageID>
                  <ContentType>text/plain</ContentType>
                  <ContentEncoding>None</ContentEncoding>
                  <ContentSize>41</ContentSize>
                  <Recipient>
                     <Group>
                        <ScreenName>
                           <SName>B. Billy</SName>
                           <GroupID>wv:happy@hippie.com</GroupID>
                        </ScreenName>
                     </Group>
                  </Recipient>
                  <Sender>
                     <Group>
                        <ScreenName>
                           <SName>Johnnie</SName>
                           <GroupID>wv:happy@hippie.com</GroupID>
                        </ScreenName>
                     </Group>
                  </Sender>
                  <DateTime>20010925T1340Z</DateTime>
                  <Validity>600</Validity>
               </MessageInfo>
            </DeliveryReport-Request>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.34.2 Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Status>
               <Result>
                  <Code>200</Code>
                  <Description>Successfully completed.</Description>
               </Result>
            </Status>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.35   Forward undelivered message transaction

C.35.1   ForwardMessage-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <ForwardMessage-Request>
               <MessageID>0x0000f132</MessageID>
               <Sender>
                     <User><UserID>wv:john@smith.com</UserID></User>
               </Sender>
               <Recipient>
                  <Group>
                     <ScreenName>
                        <SName>B. Billy</SName>
                        <GroupID>wv:/happy@hippie.com</GroupID>
                     </ScreenName>
                  </Group>
               </Recipient>
            </ForwardMessage-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.35.2   ForwardMessage-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
```

```
<TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
    <ForwardMessage-Response
        <MessageID>0x0000f132</MessageID>
    </ForwardMessage-Response>
</TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.36 Get blocked user list transaction

C.36.1 GetBlockedList-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <GetBlockedList-Request/>
            </TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.36.2 GetBlockedList-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Response</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <GetBlockedList-Response>
                    <BlockList>
                        <EntityList>
                            <UserID>wv:he@there.com</UserID>
                            <UserID>wv:she@there.com</UserID>
                            <ScreenName>
                                <SName>Billyboy</SName>
                                <GroupID>wv:john/chatgroup@there.com</GroupID>
                            </ScreenName>
                            <GroupID>wv:/boringlist@server.com</GroupID>
                        </EntityList>
                    </BlockList>
                    <BlockListInUse>F</BlockListInUse>
                    <GrantList>
                        <EntityList>
                            <UserID>wv:matthias@salamander.com</UserID>
                            <UserID>wv:francisco@don.com</UserID>
                            <ScreenName>
                                <SName>WV</SName>
                                <GroupID>wv:john/chatgroup@there.com</GroupID>
                            </ScreenName>
                            <GroupID>wv:/wireless@village.com</GroupID>
                        </EntityList>
                    </GrantList>
                    <GrantListInUse>F</GrantListInUse>
                </GetBlockedList-Response>
            </TransactionContent>
```

```
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.37 Block entity transaction

C.37.1 BlockEntity-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <BlockEntity-Request>
                    <BlockList>
                        <RemoveList>
                            <UserID>wv:matthias@salamander.com</UserID>
                        </RemoveList>
                    </BlockList>
                    <BlockListInUse>F</BlockListInUse>
                    <GrantList>
                        <AddList>
                            <UserID>wv:matthias@salamander.com</UserID>
                        </AddList>
                    </GrantList>
                    <GrantListInUse>F</GrantListInUse>
                </BlockEntity-Request>
            </TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.37.2 Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Outband</SessionType>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Response</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <Status>
                    <Result>
                        <Code>200</Code>
                        <Description>Successfully completed.</Description>
                    </Result>
                </Status>
            </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.38 Get list of contact list(s) transaction

C.38.1 GetList-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <GetList-Request/>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.38.2 GetList-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <GetList-Response>
               <ContactListIDList>
                  <ContactList>wv:john/My_friends@smith.com</ContactList>
                  <ContactList>wv:john/My_family@smith.com</ContactList>
                  <ContactList>wv:john/My_colleagues@smith.com</ContactList>
                  <ContactList>wv:john/The_WV@smith.com</ContactList>
               </ContactListIDList>
               <DefaultContactList>wv:john/My_enemies@smith.com</DefaultContactList>
            </GetList-Response>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.39 Create contact list transaction

C.39.1 CreateList-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <CreateList-Request>
               <ContactList>wv:john/My_friends@smith.com</ContactList>
               <NickList>
                  <NickName>
                     <Name>Brainstorm</Name>
```

```
                    <UserID>wv:bright@dark.com</UserID>
                </NickName>
                <NickName>
                    <Name>Randall the Vandal</Name>
                    <UserID>wv:randall@fairlane.com</UserID>
                </NickName>
            </NickList>
            <ContactListProperties>
                <Property>
                    <Name>DisplayName</Name>
                    <Value>My friends</Value>
                </Property>
                <Property>
                    <Name>Default</Name>
                    <Value>F</Value>
                </Property>
            </ContactListProperties>
          </CreateList-Request>
        </TransactionContent>
      </Transaction>
    </Session>
</WV-CSP-Message>
```

C.39.2 CreateList-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
      <SessionDescriptor>
        <SessionType>Inband</SessionType>
        <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
        <TransactionDescriptor>
          <TransactionMode> Response </TransactionMode>
          <TransactionID>IMApp01#12345@NOK5110</TransactionID>
        </TransactionDescriptor>
        <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
          <CreateList-Response>
            <ContactList>wv:john/My_friends@smith.com</ContactList>
            <ContactListProperties>
                <Property>
                    <Name>DisplayName</Name>
                    <Value>My friends</Value>
                </Property>
                <Property>
                    <Name>Default</Name>
                    <Value>F</Value>
                </Property>
            </ContactListProperties>
          </CreateList-Response>
        </TransactionContent>
      </Transaction>
    </Session>
</WV-CSP-Message>
```

C.40   Delete contact list transaction

C.40.1   DeleteList-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
      <SessionDescriptor>
        <SessionType>Inband</SessionType>
        <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
        <TransactionDescriptor>
          <TransactionMode>Request</TransactionMode>
          <TransactionID>IMApp01#12345@NOK5110</TransactionID>
        </TransactionDescriptor>
        <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
          <DeleteList-Request>
```

```
                <ContactList>wv:john/My_enemies@smith.com</ContactList>
            </DeleteList-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.40.2 Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Status>
               <Result>
                  <Code>200</Code>
                  <Description>Successfully completed.</Description>
               </Result>
            </Status>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.41 Retrieve contact list transaction

C.41.1 ListManage-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <ListManage-Request>
               <ContactList>wv:john/My_friends@smith.com</ContactList>
               <ReceiveList>T</ReceiveList>
            </ListManage-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.41.2 ListManage-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <ListManage-Response
```

```
                        <Result>
                            <Code>200</Code>
                        </Result>
                        <NickList>
                            <NickName>
                                <Name>Brainstrom</Name>
                                <UserID>wv:bright@dark.com</UserID>
                            </NickName>
                            <NickName>
                                <Name>Randall the Vandal</Name>
                                <UserID>wv:randall@fairlane.com</UserID>
                            </NickName>
                            <NickName>
                                <Name>JLo</Name>
                                <UserID>wv:jenny@logic.com</UserID>
                            </NickName>
                            <NickName>
                                <Name>Ex</Name>
                                <UserID>wv:ex@wife.com</UserID>
                            </NickName>
                        </NickList>
                        <ContactListProperties>
                            <Property>
                                <Name>DisplayName</Name>
                                <Value>My friends</Value>
                            </Property>
                            <Property>
                                <Name>Default</Name>
                                <Value>F</Value>
                            </Property>
                        </ContactListProperties>
                    </ListManage-Response>
                </TransactionContent>
            </Transaction>
            <Poll>F</Poll>
        </Session>
    </WV-CSP-Message>
```

C.42 Add users to contact list transaction

C.42.1 ListManage-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <ListManage-Request>
                    <ContactList>wv:john/My_friends@smith.com</ContactList>
                    <AddNickList>
                        <NickName>
                            <Name>Randall the Vandal</Name>
                            <UserID>wv:randall@fairlane.com</UserID>
                        </NickName>
                        <NickName>
                            <Name>JLo</Name>
                            <UserID>wv:jenny@logic.com</UserID>
                        </NickName>
                    </AddNickList>
                    <ReceiveList>T</ReceiveList>
                </ListManage-Request>
            </TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.42.2 ListManage-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <ListManage-Response>
               <Result>
                  <Code>200</Code>
               </Result>
               <NickList>
                  <NickName>
                     <Name>Randall the Vandal</Name>
                     <UserID>wv:randall@fairlane.com</UserID>
                  </NickName>
                  <NickName>
                     <Name>JLo</Name>
                     <UserID>wv:jenny@logic.com</UserID>
                  </NickName>
               </NickList>
            </ListManage-Response>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.43 Remove users from contact list transaction

C.43.1 ListManage-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <ListManage-Request>
               <ContactList>wv:john/My_friends@smith.com</ContactList>
               <RemoveNickList>
                  <UserID>wv:randall@fairlane.com</UserID>
                     <UserID>wv:jenny@logic.com</UserID>
               </RemoveNickList>
               <ReceiveList>T</ReceiveList>
            </ListManage-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.43.2 ListManage-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
```

```
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <ListManage-Response>
               <Result>
                  <Code>200</Code>
               </Result>
               <NickList/>
            </ListManage-Response>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.44   Modify properties of contact list transaction

C.44.1   ListManage-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <ListManage-Request>
               <ContactList>wv:john/My_friends@smith.com</ContactList>
               <ContactListProperties>
                  <Property>
                     <Name>DisplayName</Name>
                     <Value>My enemies</Value>
                  </Property>
                  <Property>
                     <Name>Default</Name>
                     <Value>T</Value>
                  </Property>
               </ContactListProperties>
               <ReceiveList>T</ReceiveList>
            </ListManage-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.44.2   ListManage-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <ListManage-Response>
               <Result>
                  <Code>200</Code>
               </Result>
               <ContactListProperties>
                  <Property>
                     <Name>DisplayName</Name>
                     <Value>My enemies</Value>
                  </Property>
                  <Property>
```

```
                <Name>Default</Name>
                <Value>T</Value>
            </Property>
        </ContactListProperties>
    </ListManage-Response>
</TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.45 Create Attribute list transaction

C.45.1 CreateAttributeList-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <CreateAttributeList-Request>
                    <PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
                        <UserAvailability/>
                        <StatusMood/>
                    </PresenceSubList>
                    <UserID>wv:somebody@nowhere.com</UserID>
                    <UserID>wv:another_one@nowhere.com</UserID>
                    <ContactList>wv:john/My_friends@smith.com</ContactList>
                    <ContactList>wv:john/My_family@smith.com</ContactList>
                    <DefaultList>T</DefaultList>
                    <DefaultNotify>F</DefaultNotify>
                    <UserNotify>T</UserNotify>
                    <ContactListNotify>T</ContactListNotify>
                </CreateAttributeList-Request>
            </TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.45.2 Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Response</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <Status>
                    <Result>
                        <Code>200</Code>
                        <Description>Successfully completed.</Description>
                    </Result>
                </Status>
            </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.46 Delete Attribute list transaction

C.46.1 DeleteAttributeList-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <DeleteAttributeList-Request>
               <UserIDList>
                  <UserID>wv:somebody@nowhere.com</UserID>
                  <UserID>wv:another_one@nowhere.com</UserID>
               <UserIDList>
               <ContactListIDList>
                  <ContactList>wv:john/My_friends@smith.com</ContactList>
                  <ContactList>wv:john/My_family@smith.com</ContactList>
               <ContactListIDList>
               <DefaultList>T</DefaultList>
            </DeleteAttributeList-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.46.2 Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Status>
               <Result>
                  <Code>200</Code>
                  <Description>Successfully completed.</Description>
               </Result>
            </Status>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.47 Get Attribute list transaction

C.47.1 GetAttributeList-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
```

```
                </TransactionDescriptor>
                <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                    <GetAttributeList-Request>
                        <DefaultList>T</DefaultList>
                    </GetAttributeList-Request>
                </TransactionContent>
            </Transaction>
        </Session>
    </WV-CSP-Message>
```

C.47.2   GetAttributeList-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <GetAttributeList-Response>
                    <Result>
                        <Code>200</Code>
                    </Result>
                    <DefaultAttributeList>
                    <DefaultNotify>F</DefaultNotify>
                        <PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
                            <UserAvailability/>
                            <StatusMood/>
                        </PresenceSubList>
                    </DefaultAttributeList>
                    <PresenceList>
                        <Presence>
                            <UserID>wv:somebody@nowhere.com</UserID>
                            <UserNotify>T</UserNotify>
                            <PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
                                <OnlineStatus/>
                                <UserAvailability/>
                                <StatusText/>
                                <StatusMood/>
                            </PresenceSubList>
                        </Presence>
                        <Presence>
                            <UserID>wv:another_one@nowhere.com</UserID>
                            <UserNotify>T</UserNotify>
                            <PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
                                <UserAvailability/>
                                <StatusMood/>
                            </PresenceSubList>
                        </Presence>
                        <Presence>
                            <ContactList>wv:john/My_friends@smith.com</ContactList>
                            <ContactListNotify>T</ContactListNotify>
                            <PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
                                <UserAvailability/>
                                <StatusMood/>
                            </PresenceSubList>
                        </Presence>
                        <Presence>
                            <ContactList>wv:john/My_family@smith.com</ContactList>
                            <ContactListNotify>T</ContactListNotify>
                            <PresenceSubList xmlns="http://www.openmobilealliance.org/DTD/IMPS-PA1.3">
                                <UserAvailability/>
                                <StatusMood/>
                            </PresenceSubList>
                        </Presence>
                    </PresenceList>
                </GetAttributeList-Response>
            </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
```

```
        </WV-CSP-Message>
```

C.48 Generic Notification Mechanism Transaction

C.48.1 SubscribeNotification-Request Primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12347@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <SubscribeNotification-Request>
               <NotificationTypeList>
                  <NotificationType>CLC</NotificationType>
               </NotificationTypeList>
            </SubscribeNotification-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.48.2 Notification-Request Primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12347@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Notification-Request>
               <NotificationType>CLC</NotificationType>
               <ContactList>wv:john/My_friends@smith.com</ContactList>
            </Notification-Request>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.49 Create group transaction

C.49.1 CreateGroup-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <CreateGroup-Request>
               <GroupID>wv:john/partygroup@there.com</GroupID>
```

```
                    <GroupProperties>
                        <Property>
                            <Name>Name</Name>
                            <Value>Party discussion</Value>
                        </Property>
                        <Property>
                            <Name>Accesstype</Name>
                            <Value>Restricted</Value>
                        </Property>
                        <Property>
                            <Name>PrivateMessaging</Name>
                            <Value>F</Value>
                        </Property>
                        <Property>
                            <Name>Searchable</Name>
                            <Value>T</Value>
                        </Property>
                        <Property>
                            <Name>Topic</Name>
                            <Value>Party</Value>
                        </Property>
                        <Property>
                            <Name>MaxActiveUsers</Name>
                            <Value>30</Value>
                        </Property>
                        <Property>
                            <Name>AutoDelete</Name>
                            <Value>T</Value>
                        </Property>
                        <Property>
                            <Name>Validity</Name>
                            <Value>60</Value>
                        </Property>
                        <WelcomeNote>
                            <ContentType>text/plain</ContentType>
                            <ContentData>Welcome to WV&#39;s party house</ContentData>
                        </WelcomeNote>
                    </GroupProperties>
                    <JoinGroup>T</JoinGroup>
                    <ScreenName>
                        <SName>Jonhhie</SName>
                        <GroupID>wv:john/partygroup@there.com </GroupID>
                    </ScreenName>
                    <SubscribeNotification>T</SubscribeNotification>
                </CreateGroup-Request>
            </TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.49.2 Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Response</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <Status>
                    <Result>
                        <Code>200</Code>
                        <Description>Successfully completed.</Description>
                    </Result>
                </Status>
            </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.50   Delete group transaction

C.50.1   DeleteGroup-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <DeleteGroup-Request>
               <GroupID>wv:john/partygroup@there.com</GroupID>
            </DeleteGroup-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.50.2   Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Status>
               <Result>
                  <Code>200</Code>
                  <Description>Successfully completed.</Description>
               </Result>
            </Status>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.51   Join group transaction

C.51.1   JoinGroup-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <JoinGroup-Request>
               <GroupID>wv:john/partygroup@there.com</GroupID>
               <JoinedRequest>T</JoinedRequest>
               <SubscribeNotification>T</SubscribeNotification>
            </JoinGroup-Request>
         </TransactionContent>
```

```
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.51.2   JoinGroup-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Response</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <JoinGroup-Response>
                    <Joined>
                        <UserMapList>
                            <UserMapping>
                                <Mapping>
                                    <SName>Johnny</SName>
                                </Mapping>
                                <Mapping>
                                    <SName>Don</SName>
                                </Mapping>
                                <Mapping>
                                    <SName>He</SName>
                                    <UserID>wv:he@there.com</UserID>
                                </Mapping>
                                <Mapping>
                                    <SName>She</SName>
                                    <UserID>wv:she@there.com</UserID>
                                </Mapping>
                            </UserMapping>
                        </UserMapList>
                    </Joined>
                    <WelcomeNote>
                        <ContentType>text/plain</ContentType>
                        <ContentData>Welcome to WV's party house</ContentData>
                    </WelcomeNote>
                </JoinGroup-Response>
            </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.52   User initiated leave group transaction

C.52.1   LeaveGroup-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <LeaveGroup-Request>
                    <GroupID>wv:john/partygroup@there.com</GroupID>
                </LeaveGroup-Request>
            </TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.52.2 LeaveGroup-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <LeaveGroup-Response>
               <GroupID>wv:john/partygroup@there.com</GroupID>
               <Result>
                  <Code>200</Code>
                  <Description>Own request.</Description>
               </Result>
            </LeaveGroup-Response>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.53 Server initiated leave group transaction

C.53.1 LeaveGroup-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <LeaveGroup-Response>
               <GroupID>wv:john/partygroup@there.com</GroupID>
               <Result>
                  <Code>809</Code>
                  <Description>You have been rejected from this group.</Description>
               </Result>
            </LeaveGroup-Response>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.53.2 Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Status>
               <Result>
                  <Code>200</Code>
```

```
            </Result>
         </Status>
      </TransactionContent>
    </Transaction>
  </Session>
</WV-CSP-Message>
```

C.54 Get group member list transaction

C.54.1 GetGroupMembers-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
  <Session>
    <SessionDescriptor>
      <SessionType>Inband</SessionType>
      <SessionID>im.user.com#48815@server.com</SessionID>
    </SessionDescriptor>
    <Transaction>
      <TransactionDescriptor>
        <TransactionMode>Request</TransactionMode>
        <TransactionID>IMApp01#12345@NOK5110</TransactionID>
      </TransactionDescriptor>
      <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
        <GetGroupMembers-Request>
          <GroupID>wv:john/partygroup@there.com</GroupID>
        </GetGroupMembers-Request>
      </TransactionContent>
    </Transaction>
  </Session>
</WV-CSP-Message>
```

C.54.2 GetGroupMembers-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
  <Session>
    <SessionDescriptor>
      <SessionType>Inband</SessionType>
      <SessionID>im.user.com#48815@server.com</SessionID>
    </SessionDescriptor>
    <Transaction>
      <TransactionDescriptor>
        <TransactionMode>Response</TransactionMode>
        <TransactionID>IMApp01#12345@NOK5110</TransactionID>
      </TransactionDescriptor>
      <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
        <GetGroupMembers-Response>
          <UserList>
            <User>
              <UserID>wv:he@there.com</UserID>
              <FriendlyName>He</FriendlyName>
            </User>
            <User>
              <UserID>wv:she@there.com</UserID>
              <FriendlyName>She</FriendlyName>
            </User>
              <UserID>wv:john@smith.com</UserID>
              <FriendlyName>Johnnie</FriendlyName>
            <User>
              <UserID>wv:matthias@salamander.com</UserID>
              <FriendlyName>Matti</FriendlyName>
            </User>
            <User><UserID>wv:francisco@don.com</UserID></User>
          </UserList>
        </GetGroupMembers-Response>
      </TransactionContent>
    </Transaction>
    <Poll>F</Poll>
  </Session>
</WV-CSP-Message>
```

C.55 Get joined users transaction

C.55.1 GetJoinedUsers-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <GetJoinedUsers-Request>
               <GroupID>wv:john/partygroup@there.com</GroupID>
            </GetJoinedUsers-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.55.2 GetJoinedUsers-Response primitive (for an administrator)

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <GetJoinedUsers-Response>
               <AdminMapList>
                  <AdminMapping>
                     <Mapping>
                        <SName>Johnny</SName>
                        <UserID>wv:john@smith.com</UserID>
                     </Mapping>
                     <Mapping>
                        <SName>Don</SName>
                        <UserID>wv:francisco@don.com</UserID>
                     </Mapping>
                  </AdminMapping>
                  <UserMapping>
                     <Mapping>
                        <SName>He</SName>
                        <UserID>wv:he@there.com</UserID>
                     </Mapping>
                     <Mapping>
                        <SName>She</SName>
                        <UserID>wv:she@there.com</UserID>
                     </Mapping>
                  </UserMapping>
               </AdminMapList>
            </GetJoinedUsers-Response>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.55.3 GetJoinedUsers-Response primitive (for an ordinary user)

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
```

```
        <SessionType>Inband</SessionType>
        <SessionID>im.user.com#48815@server.com</SessionID>
    </SessionDescriptor>
    <Transaction>
        <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
        </TransactionDescriptor>
        <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <GetJoinedUsers-Response>
                <UserMapList>
                    <UserMapping>
                        <Mapping>
                            <SName>Johnny</SName>
                        </Mapping>
                        <Mapping>
                            <SName>Don</SName>
                        </Mapping>
                        <Mapping>
                            <SName>He</SName>
                            <UserID>wv:he@there.com</UserID>
                        </Mapping>
                        <Mapping>
                            <SName>She</SName>
                            <UserID>wv:she@there.com</UserID>
                        </Mapping>
                    </UserMapping>
                </UserMapList>
            </GetJoinedUsers-Response>
        </TransactionContent>
    </Transaction>
    <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.56   Add group members to a group transaction

C.56.1   AddGroupMembers-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <AddGroupMembers-Request>
                    <GroupID>wv:john/partygroup@there.com</GroupID>
                    <UserIDList>
                        <UserID>wv:he@there.com</UserID>
                        <UserID>wv:she@there.com</UserID>
                    </UserIDList>
                </AddGroupMembers-Request>
            </TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.56.2   Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
```

```
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Status>
               <Result>
                  <Code>200</Code>
                  <Description>Successfully completed.</Description>
               </Result>
            </Status>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.57 Remove group members from a group transaction

C.57.1 RemoveGroupMembers-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <RemoveGroupMembers-Request>
               <GroupID>wv:john/partygroup@there.com</GroupID>
               <UserIDList>
                  <UserID>wv:matthias@salamander.com</UserID>
                  <UserID>wv:john@smith.com</UserID>
                  <UserID>wv:francisco@don.com</UserID>
                  <UserID>wv:he@there.com</UserID>
                  <UserID>wv:she@there.com</UserID>
               </UserIDList>
            </RemoveGroupMembers-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.57.2 Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Status>
               <Result>
                  <Code>200</Code>
                  <Description>Successfully completed.</Description>
               </Result>
            </Status>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.58 Changing access rights in a group transaction

C.58.1 MemberAccess-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <MemberAccess-Request>
                    <GroupID>wv:john/partygroup@there.com</GroupID>
                    <Admin>
                        <UserList>
                            <User><UserID>wv:john@smith.com</UserID></User>
                            <User><UserID>wv:francisco@don.com</UserID></User>
                        </UserList>
                    </Admin>
                        <UserList>
                            <User><UserID>wv:matthias@salamander.com</UserID></User>
                            <User><UserID>wv:he@there.com</UserID></User>
                            <User><UserID>wv:she@there.com</UserID></User>
                        </UserList>
                    </Users>
                </MemberAccess-Request>
            </TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.58.2 Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Response</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <Status>
                    <Result>
                        <Code>200</Code>
                        <Description>Successfully completed.</Description>
                    </Result>
                </Status>
            </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.59 Modify group properties transaction

C.59.1 GetGroupProps-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
```

```
<Transaction>
   <TransactionDescriptor>
      <TransactionMode>Request</TransactionMode>
      <TransactionID>IMApp01#12345@NOK5110</TransactionID>
   </TransactionDescriptor>
   <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
      <GetGroupProps-Request>
         <GroupID>wv:john/partygroup@there.com</GroupID>
      </GetGroupProps-Request>
   </TransactionContent>
</Transaction>
   </Session>
</WV-CSP-Message>
```

C.59.2   GetGroupProps-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <GetGroupProps-Response>
               <GroupProperties>
                  <Property>
                     <Name>Name</Name>
                     <Value>Party discussion</Value>
                  </Property>
                  <Property>
                     <Name>Accesstype</Name>
                     <Value>Restricted</Value>
                  </Property>
                  <Property>
                     <Name>Type</Name>
                     <Value>Private</Value>
                  </Property>
                  <Property>
                     <Name>PrivateMessaging</Name>
                     <Value>F</Value>
                  </Property>
                  <Property>
                     <Name>Searchable</Name>
                     <Value>T</Value>
                  </Property>
                  <Property>
                     <Name>Topic</Name>
                     <Value>Party</Value>
                  </Property>
                  <Property>
                     <Name>ActiveUsers</Name>
                     <Value>3</Value>
                  </Property>
                  <Property>
                     <Name>MaxActiveUsers</Name>
                     <Value>30</Value>
                  </Property>
                  <Property>
                     <Name>AutoDelete</Name>
                     <Value>T</Value>
                  </Property>
                  <Property>
                     <Name>Validity</Name>
                     <Value>60</Value>
                  </Property>
                  <WelcomeNote>
                     <ContentType>text/plain</ContentType>
                     <ContentData>Welcome to WV's party house</ContentData>
                  </WelcomeNote>
               </GroupProperties>
               <OwnProperties>
```

```
                        <Property>
                            <Name>PrivateMessaging</Name>
                            <Value>T</Value>
                        </Property>
                        <Property>
                            <Name>IsMember</Name>
                            <Value>T</Value>
                        </Property>
                        <Property>
                            <Name>PrivilegeLevel</Name>
                            <Value>Read</Value>
                        </Property>
                    </OwnProperties>
                </GetGroupProps-Response>
            </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.59.3   SetGroupProps-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <SetGroupProps-Request>
                    <GroupID>wv:john/partygroup@there.com</GroupID>
                    <GroupProperties>
                        <Property>
                            <Name>Name</Name>
                            <Value>Party house</Value>
                        </Property>
                        <Property>
                            <Name>PrivateMessaging</Name>
                            <Value>T</Value>
                        </Property>
                        <Property>
                            <Name>MaxActiveUsers</Name>
                            <Value>10</Value>
                        </Property>
                        <Property>
                            <Name>AutoDelete</Name>
                            <Value>F</Value>
                        </Property>
                        <Property>
                            <Name>Validity</Name>
                            <Value>0</Value>
                        </Property>
                        <WelcomeNote>
                            <ContentType>text/plain</ContentType>
                            <ContentData>Welcome! Be gentle!</ContentData>
                        </WelcomeNote>
                    </GroupProperties>
                </SetGroupProps-Request>
            </TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.59.4   Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
```

```
            <SessionID>im.user.com#48815@server.com</SessionID>
         </SessionDescriptor>
         <Transaction>
            <TransactionDescriptor>
               <TransactionMode>Response</TransactionMode>
               <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
               <Status>
                  <Result>
                     <Code>200</Code>
                     <Description>Successfully completed.</Description>
                  </Result>
               </Status>
            </TransactionContent>
         </Transaction>
         <Poll>F</Poll>
      </Session>
   </WV-CSP-Message>
```

C.60 Reject user from group transaction

C.60.1 RejectList-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <RejectList-Request>
               <GroupID>wv:john/partygroup@there.com</GroupID>
               <AddList>
                  <UserID>wv:he@there.com</UserID>
                  <UserID>wv:she@there.com</UserID>
               </AddList>
               <RemoveList>
                  <UserID>wv:john@smith.com</UserID>
                  <UserID>wv:matthias@salamander.com</UserID>
               </RemoveList>
            </RejectList-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.60.2 RejectList-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <RejectList-Response>
               <UserList>
                  <User>
                     <UserID>wv:he@there.com</UserID>
                     <FriendlyName>He</FriendlyName>
                  </User>
                  <User>
```

```
            <UserID>wv:she@there.com</UserID>
            <FriendlyName>She</FriendlyName>
        </User>
      </UserList>
    </RejectList-Response>
  </TransactionContent>
</Transaction>
<Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.61 Subscribe group change notification transaction

C.61.1 SubscribeGroupNotice-Request primitive (get)

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <SubscribeGroupNotice-Request>
               <GroupID>wv:john/partygroup@there.com</GroupID>
               <SubscribeType>G</SubscribeType>
            </SubscribeGroupNotice-Request>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.61.2 SubscribeGroupNotice-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <SubscribeGroupNotice-Response>
               <Value>F</Value>
            </SubscribeGroupNotice-Response>
         </TransactionContent>
      </Transaction>
      <Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.61.3 SubscribeGroupNotice-Request primitive (set)

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12346@NOK5110</TransactionID>
```

```
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <SubscribeGroupNotice-Request>
                    <GroupID>wv:john/partygroup@there.com</GroupID>
                    <SubscribeType>S</SubscribeType>
                </SubscribeGroupNotice-Request>
            </TransactionContent>
        </Transaction>
    </Session>
</WV-CSP-Message>
```

C.61.4   Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Response</TransactionMode>
                <TransactionID>IMApp01#12346@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <Status>
                    <Result>
                        <Code>200</Code>
                        <Description>Successfully completed.</Description>
                    </Result>
                </Status>
            </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.61.5   GroupChangeNotice primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Request</TransactionMode>
                <TransactionID>IMApp01#12347@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <GroupChangeNotice>
                    <GroupID>wv:john/partygroup@there.com</GroupID>
                    <Joined>
                        <UserMapList>
                            <UserMapping>
                                <Mapping>
                                    <SName>Johnny</SName>
                                </Mapping>
                                <Mapping>
                                    <SName>Don</SName>
                                </Mapping>
                                <Mapping>
                                    <SName>He</SName>
                                    <UserID>wv:he@there.com</UserID>
                                </Mapping>
                                <Mapping>
                                    <SName>She</SName>
                                    <UserID>wv:she@there.com</UserID>
                                </Mapping>
                            </UserMapping>
                        </UserMapList>
                    </Joined>
                    <Left>
```

```
            <UserList>
               <ScreenName>
                  <SName>He</SName>
                  <GroupID>wv:john/partygroup@there.com</GroupID>
               </ScreenName>
               <ScreenName>
                  <SName>She</SName>
                  <GroupID>wv:john/partygroup@there.com</GroupID>
               </ScreenName>
            </UserList>
         </Left>
         <OwnProperties>
            <Property>
               <Name>PrivilegeLevel</Name>
               <Value>Mod</Value>
            </Property>
         </OwnProperties>
      </GroupChangeNotice>
   </TransactionContent>
</Transaction>
<Poll>F</Poll>
   </Session>
</WV-CSP-Message>
```

C.61.6   Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Response</TransactionMode>
            <TransactionID>IMApp01#12347@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <Status>
               <Result>
                  <Code>200</Code>
               </Result>
            </Status>
         </TransactionContent>
      </Transaction>
   </Session>
</WV-CSP-Message>
```

C.62   Extend conversation transaction

C.62.1   ExtendConversation-Request primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
   <Session>
      <SessionDescriptor>
         <SessionType>Inband</SessionType>
         <SessionID>im.user.com#48815@server.com</SessionID>
      </SessionDescriptor>
      <Transaction>
         <TransactionDescriptor>
            <TransactionMode>Request</TransactionMode>
            <TransactionID>IMApp01#12345@NOK5110</TransactionID>
         </TransactionDescriptor>
         <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
            <ExtendConversation-Request>
               <ExtendConversationID>0x42266335</ExtendConversationID>
               <UserIDList>
                  <UserID>wv:bob@server.com</UserID> <UserID>wv:alice@server.com</UserID>
               </UserIDList>
               <ExtendConversationUser>
                  <UserID>wv:tom@server.com</UserID>
               </ExtendConversationUser>
               <SubscribeNotification>T</SubscribeNotification>
```

```
                <WelcomeNote>
                    <ContentType>text/plain</ContentType>
                    <ContentData>Welcome to my chat</ContentData>
                </WelcomeNote>
                <ScreenName>
                    <SName>Tiger</SName>
                    <GroupID>wv:john/dummygroup@there.com</GroupID>
                </ScreenName>
            </ExtendConversation-Request>
        </TransactionContent>
    </Transaction>
    </Session>
</WV-CSP-Message>
```

C.62.2   Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Response</TransactionMode>
                <TransactionID>IMApp01#12345@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <Status>
                    <Result>
                        <Code>200</Code>
                        <Description>Successfully completed.</Description>
                    </Result>
                </Status>
            </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.62.3   ExtendConversation-Response primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
    <Session>
        <SessionDescriptor>
            <SessionType>Inband</SessionType>
            <SessionID>im.user.com#48815@server.com</SessionID>
        </SessionDescriptor>
        <Transaction>
            <TransactionDescriptor>
                <TransactionMode>Response</TransactionMode>
                <TransactionID>IMApp01#12346@NOK5110</TransactionID>
            </TransactionDescriptor>
            <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
                <ExtendConversation-Response>
                    <ExtendConversationID>0x42266335</ExtendConversationID>
                    <GroupID>wv:/conversation684331@server.com</GroupID>
                    <ResponseNote>Do not want to join the group!</ResponseNote>
                    <Result>
                        <Code>200</Code>
                        <Description>Successfully completed.</Description>
                    </Result>
                </ExtendConversation-Response>
            </TransactionContent>
        </Transaction>
        <Poll>F</Poll>
    </Session>
</WV-CSP-Message>
```

C.62.4   Status primitive

```
<WV-CSP-Message xmlns="http://www.openmobilealliance.org/DTD/IMPS-CSP1.3">
```

```
<Session>
   <SessionDescriptor>
      <SessionType>Inband</SessionType>
      <SessionID>im.user.com#48815@server.com</SessionID>
   </SessionDescriptor>
   <Transaction>
      <TransactionDescriptor>
         <TransactionMode>Response</TransactionMode>
         <TransactionID>IMApp01#12346@NOK5110</TransactionID>
      </TransactionDescriptor>
      <TransactionContent xmlns="http://www.openmobilealliance.org/DTD/IMPS-TRC1.3">
         <Status>
            <Result>
               <Code>200</Code>
               <Description>Successfully completed.</Description>
            </Result>
         </Status>
      </TransactionContent>
   </Transaction>
   <Poll>F</Poll>
</Session>
</WV-CSP-Message>
```