submitted to: IETF LEMONADE WG

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Source: OMA MWG-MEM SWG

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Purpose of Presentation

• Provide a status update on OMA Mobile Email (MEM) enabler development:
  • Requirements Document (RD)
  • Architecture Document (AD)
  • Technical Specifications (TS)
Presentation Outline

• MEM Requirements Overview
• MEM Architecture
  • Overview
  • Logical Architecture
  • IETF Lemonade Realization
• MEM Technical Specification Overview
• MEM Enabler Development Status
• Going Forward
• Upcoming OMA MEM SWG Meetings
OMA MEM Enabler: Requirements Overview

- OMA Mobile Email (MEM) Enabler
  - Email enabler optimized to support email usage in mobile devices and wireless networks

- Use Cases
  - Illustrate key mobile email usage patterns

- High level functional requirements
  - General & overall system requirements
  - Security
  - Charging
  - Administration and configuration
  - Usability
  - Interoperability
  - Privacy

For details, please go to:

http://www.openmobilealliance.org/ftp/Public_documents/REQ/Permanent_documents/OMA-RD-MobileEmail-V1_0-20051018-C.zip
OMA MEM Enabler: Architectural Overview

- **Components**
  - MEM Client
    - User and other interface, session management, management of email data, event handling
  - MEM Server
    - Administrative and other interfaces, session management, management of email data, event handling, media conversion
  - Email Server
  - Outband Notification Function (Optional)
- **Other enablers/elements**
  - OMA DM or OMA CP, OMA STI, OMA UAP
  - Messaging enablers for out-band notifications (e.g., SMS, MMS, WAP Push, SIP push, UDP, etc.)
  - Entities for managing MEM Server configuration, charging, and security
- **Interfaces**
- **Email Protocol**
- **MEM Protocol**
  - Email alignment, filtering rules, settings and user preferences, media conversion
- **Notifications**: In-band & out-band
- **Flows**:
  - Before using the MEM Service
  - Using the MEM Service: Setup, use, suspend
- **Appendices**
  - Implementation considerations: MEM server, proxies & firewalls, deployment cases
  - Realizations: IETF Lemonade, OMA DS

For details, please go to:

http://www.openmobilealliance.org/ftp/Public_documents/MWG/MEM/Permanent_documents/OMA-AD-Mobile_Email-V1_0_0-20070614-D.zip
OMA MEM Enabler: Logical Architecture

OMA-MEM-2007-0036R03
OMA MEM Enabler: IETF Lemonade Realization
## OMA MEM Enabler: IETF Lemonade Realization (cont’d)

<table>
<thead>
<tr>
<th>MEM Component/Interface</th>
<th>Lemonade Realization</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEM Client</td>
<td>Mail User Agent (MUA)</td>
</tr>
<tr>
<td>MEM Server</td>
<td>Message Store &amp; SUBMIT Server Behaviors</td>
</tr>
<tr>
<td>MEM-1 Interface</td>
<td>Lemonade IMAP</td>
</tr>
<tr>
<td>MEM-2 Interface</td>
<td>Lemonade IMAP &amp; SUBMIT</td>
</tr>
<tr>
<td>MEM-4 Interface</td>
<td>WAP Push, SMS, or other wireless protocols</td>
</tr>
</tbody>
</table>
OMA MEM Enabler: Technical Specifications Overview

- Architecture Explained
- Server to Client Notification
  - Email events, payload, notification mechanisms
- MEM Server Management Interface
- Client Capability Information
- Client Configuration
  - Provisioning, life cycle management of parameters, client revocation
- MEM Client Installation
- Content Transcoding
- Charging
- Bindings for MEM Protocol
  - IETF LEMONADE
  - OMA DS

For details, please go to:

http://www.openmobilealliance.org/ftp/Public_documents/MWG/MEM/Permanent_documents/OMA-TS-Mobile_Email-V1_0-20070110-D.zip
OMA MEM Enabler: Development Status

- Requirements Document (MEM RD) approved as “Candidate” in October 2005.
  - http://www.openmobilealliance.org/ftp/Public_documents/REQ/Permanent_documents/OMA-RD-MobileEmail-V1_0-20051018-C.zip

  - http://www.openmobilealliance.org/ftp/Public_documents/MWG/MEM/Permanent_documents/OMA-AD-Mobile_Email-V1_0_0-20070614-D.zip

- Technical Specification (MEM TS) development work has started.
  - http://www.openmobilealliance.org/ftp/Public_documents/MWG/MEM/Permanent_documents/OMA-TS-Mobile_Email-V1_0-20070110-D.zip

- MEM Enabler Package is currently targeting OMA TP approval as Candidate Enabler by mid-2008.
OMA MEM Enabler: Going Forward

• Progress MEM TS work to completion:
  • **Common Specifications Required by OMA MEM Enabler**
    • Server to Client Notifications
      • *Currently considering options for out-of-band notification offered by OMA Content Delivery (CD) working group and other SDOs*
    • MEM Server Management Interface
    • Client Capability Information
    • Client Configuration
    • MEM Client Installation
    • Content Transcoding
      • *Currently rationalizing a limited mandatory set of STI parameters for transcoding*
        • Looking at character set translation into Universal Unicode format
    • Charging
  • **Bindings for MEM Protocol**
    • IETF LEMONADE
      • Referencing the IETF Lemonade Profile  *(draft-ietf-lemonade-profile-bis)*
    • OMA DS
      • Using the “Data Synchronization” enabler defined by the OMA DS working group
Upcoming OMA MWG-MEM SWG Meetings

August 19-24, 2007  Seoul, Korea
October 14-19, 2007  Vancouver, BC, Canada
December 9-14, 2007  London, UK