OMA-MEM-2007-0036R03

OMA Mobile Email (MEM) Enabler Development Status

Submitted To: IETF LEMONADE WG

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Availability: ☒ Public   ☐ OMA Confidential

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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)

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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

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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 UAProf
  - 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
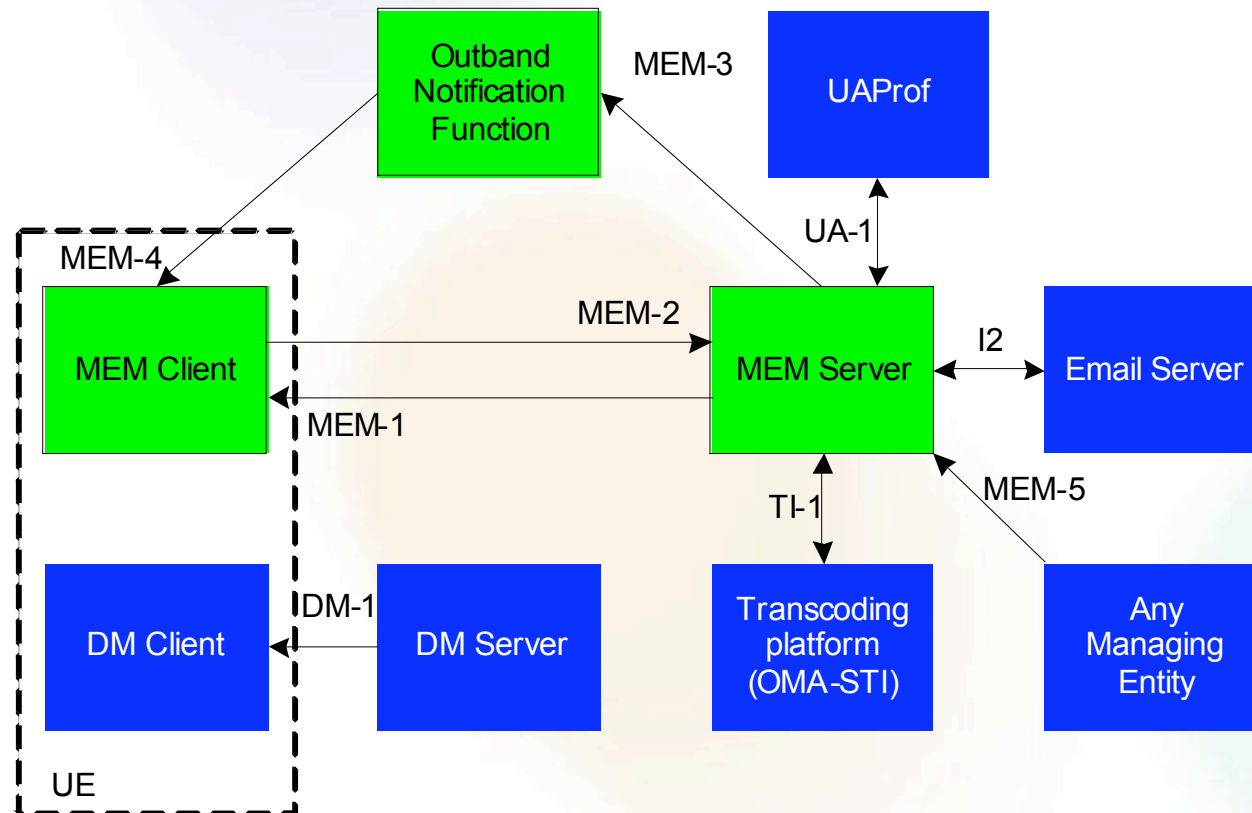 - Using the MEM Service: Setup, use, suspend
- **Appendices**
  - Implementation considerations: MEM server, proxies & firewalls, deployment cases
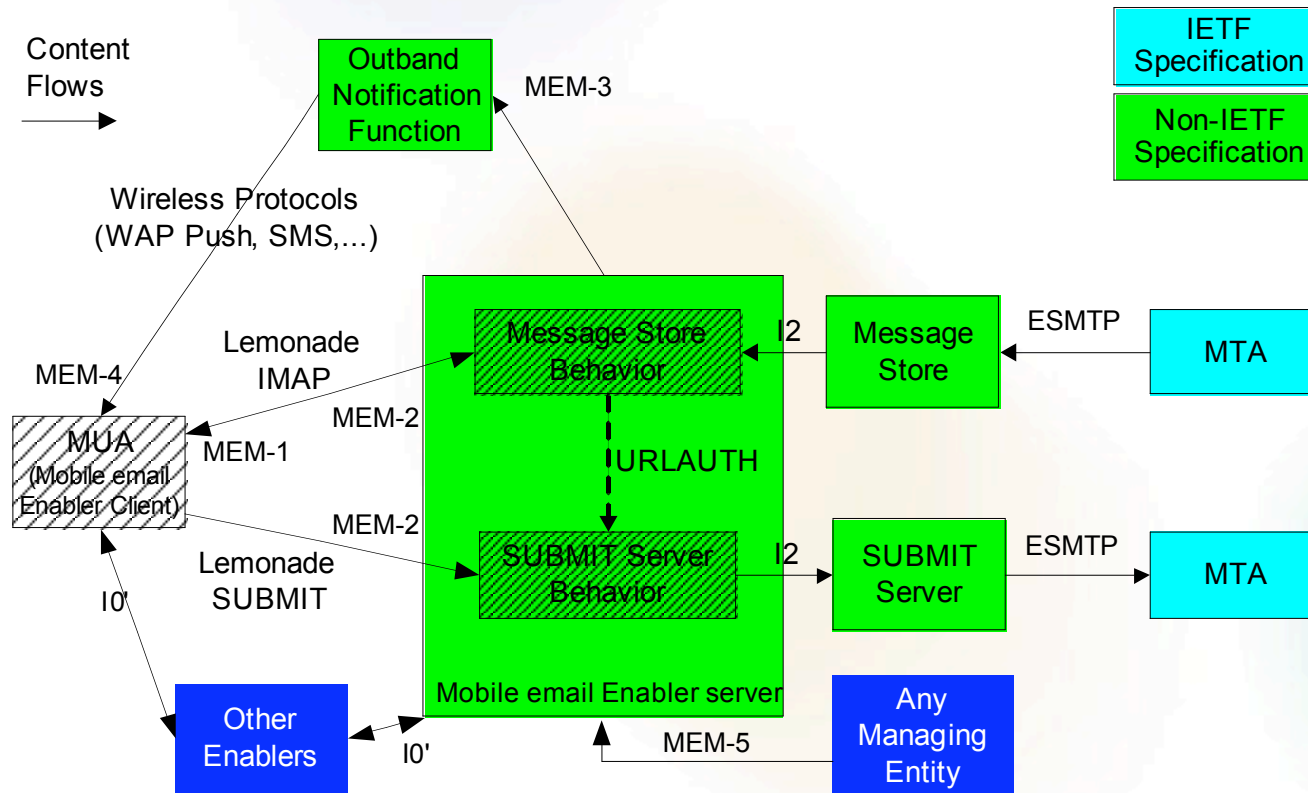 - Realizations: IETF Lemonade, OMA DS

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

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OMA MEM Enabler: Logical Architecture

OMA MEM Enabler: IETF Lemonade Realization

Content Flows

Outband Notification Function

MEM-3

IETF Specification

Non-IETF Specification

Wireless Protocols (WAP Push, SMS,…)

MEM-4

Lemonade IMAP

MEM-1

MUA (Mobile email Enabler Client)

MEM-2

Lemonade SUBMIT

I0'

Message Store Behavior

I2

Message Store

ESMTP

MTA

URLAUTH

MEM-2

SUBMIT Server Behavior

I2

SUBMIT Server

ESMTP

MTA

Mobile email Enabler server

Other Enablers

I0'

MEM-5

Any Managing Entity

OMA MEM Enabler: IETF Lemonade Realization (cont'd)

MEM Component/Interface	Lemonade Realization
MEM Client	Mail User Agent (MUA)
MEM Server	Message Store & SUBMIT Server Behaviors
MEM-1 Interface	Lemonade IMAP
MEM-2 Interface	Lemonade IMAP & SUBMIT
MEM-4 Interface	WAP Push, SMS, or other wireless protocols

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

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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

- Architecture Document (MEM AD) review complete on July 17, 2007.
  - 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

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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