

# OMA Technical Snapshot April 2009

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# Overall summary

## • Technical Status

- Updates on key technical progress and status
- Activities categorised into domains overview
  - Personal to person communications
  - Access to content
  - Common enablers
  - Security and Charging
- Technical group reports
  - OMA-TP-2009-0135-INP\_Helsinki\_WG\_presentations\_and\_attendance\_list
  - each groups' presentation provides further reports, references and details

## • Addressing structural needs

- Progress on
  - Working Group restructuring
    - PoC WG consolidated into Messaging WG
    - MCC WG and SEC WG consolidated into ARC WG
    - GS WG consolidated into CD WG
  - Collaborative tools
    - Activities to identify potential new tools underway

## • Board Specifications ratifications

- 10 Specifications ratified
- OMA-TP-2009-0167R01-INP\_Overview\_of\_Board\_approved\_TP\_documents

## • Work Programme

- Latest overview of all technical activities
  - OMA-TP-2009-0146-INP\_WP\_Status\_Helsinki

## • Acronyms and abbreviations

- see final slide for list of terms and acronyms

# Board Specification ratifications

- **Person to person communications specifications**
  - Messaging
    - New: OMA Push to talk over cellular V2\_1 AD
- **Access to content specifications**
  - Broadcasting
    - New: OMA Mobile Broadcast V1\_0 EVP
    - New: OMA Mobile Broadcast Services V1\_1 RD
  - Browser
    - New: OMA Scalable Vector Graphics Mobile Domain V1\_0 AER
  - Data synchronisation
    - Revised: OMA Data Synchronisation V1\_2\_2 AER
- **Common releases specifications**
  - Policy management
    - New: OMA Global Permission Management V1\_0 CER
  - Services APIs
    - New: OMA Parlay Service Access V1\_0 RD
  - XML Document Management
    - New: OMA XML Document Management V2\_1 RD
  - Device Management
    - New: OMA Diagnostic Monitoring V1\_0 CER
    - New: OMA Device Management Scheduling V1\_0 ETS

RD = Requirements Document CRR = Candidate Reference Release CER = Candidate Enabler Release EVP = Enabler Validation Plan See final slide for further terms and acronyms  
AD = Architecture Document ARR = Approved Reference Release AER = Approved Enabler Release ETS = Enabler Test Specification TFP = Test File Package



# Person to person communications

# Person to person communications (1/2)

IP Messaging, Address Book, Customised ringing, Mobile Email, Instant Messaging

## • Converged IP Messaging (CPM)

- RD approved Jan 2009
- RD updated with changed delivery notification requirement
- Latest draft AD to be submitted to ARC for review
- SD nearing completion. Remaining procedures under discussion (e.g. sending a message in Large Message Mode), addressing editor's notes
- TSs
  - Conversation TS: joining a group session and receiving large message procedures agreed
  - Interworking: CPM – MMS mapping tables agreed, CPM – SMS (using SMPP) mappings also under discussion.
  - Discussion with MCC members how to progress CPM Charging TS given the time and resource available
- CER ~ 4Q09

## • Converged Address Book (CAB)

- Resolved about 175 review comments (about 65% remains)
  - Finalised introductory sections
  - Addressed key normative sections
- Reviewed XDM 2.0 architecture changes from PAG
  - Agreement made to migrate the CAB architecture to include the new XDM interface descriptions
- CER ~ 4Q09

## • Mobile Email (MEM)

- 50/60 consistency review comments closed, and finalising remaining comments via CC's
- CER ~ 2Q09

## • Instant Messaging Presence Service (IMPS)

- V1\_1: AER Nov 2002
- V1\_2: AER Feb 2005
- V1\_2\_1: CER Aug 2005
- V1\_3: CER Feb 2007
- IMPS Implementation Guidelines V1\_0
  - All CONRR comments closed, CRR under TP approval
  - CRR ~ 1Q09

## • SIMPLE Instant Messaging (SIMPLE IM)

- V1\_0: CER Sep 2008

## • Customised Multimedia Ringing (CMR)

- nearing AD review. TS not yet started
- RD socialisation with REQ on RD update to delete low-priority / complex requirements
- Reference to GSSM/XDM enablers removed from RD – to be re-considered as technical approaches based upon further analysis at AD/TS stage
- AD develop running behind schedule, but 90% complete
- CER ~2Q10

# Person to person communications (2/2)

## Group Messaging

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- **Push to talk over cellular (PoC)**
  - V1\_0\_2: AER Sep 2007
  - V2\_0: CER Aug 2008
  - V2\_1
    - AD approved Feb 2009
    - Good progress on several TS features
      - External Media Content Server retrieval, Incoming Media Content Barring, Dynamic PoC Group, Interworking with messaging system, Multicast PoC, PoC Crisis Event Handling, Incoming Conditional Session Barring, PoC Session Search, ...
    - 99% of all features ready to start Consistency Review
    - CER ~ 4Q09



# Access to content

# Access to content (1/3)

Broadcast, Personalised Content, DRM, Advertising, Code Scanning

## • Dynamic Content Delivery (DCD)

- V1\_0: CER, Jan 2009

## • Mobile Broadcast (BCAST)

- V1\_0: AER, Mar 2009
  - Approved as an Approved Enabler Release in Macau
- V1\_1:
  - Good discussions on Rich Media Solution and Audience measurement, but no consensus yet but will conclude by May.
  - Discussion causing delay to AD schedule, but not delay V1.1 schedule
  - A few CRs to Service Guide, Service, and SPCP were agreed
  - CER ~1Q10

## • Mobile Codes (MC)

- V1\_0: ARR, Oct 2008
- V1\_0
  - RD review closed, RD currently on TP Candidate Approval R&A
  - AD 75% complete, Informal Review initiated with ARC; TS work started on 2009-02-26
  - ARC WG identified issue re solid line/dotted line representation of the MC architecture; being addressed by MC group
  - Contentious issues on symbology, indirect code ecosystem architecture, global MC registry, code transfer, took a long time to reach consensus
  - CER ~ 4Q09

## • Mobile Advertising (MobAd)

- ARC agrees the AD review report, AD review closed
- Beginning to develop Core TS, BCAST Adaptation TS and DCD Adaptation TS
- Basic parameters defined for MobAd-1, 2, 3 and Delv-1 interfaces
- Basic transport binding mechanisms defined
- Liaison exchange between OMA and TISPAN on MobAd reuse
- Joint meeting with GS WG to discuss relationship between IGA and MobAd
- CER ~ 1Q10

## • Digital Rights Management (DRM)

- DRM V2\_0\_2: AER, Aug 2008
- DRM V2\_1: CER, Nov 2008
- Secure Content Exchange (SCE) V1\_0: CER Dec 2009
- Secure Removable Media (SRM)
  - V1\_0: CER Mar 2009
  - V1\_1:
    - RD formal review ended (4 comments); RD ready for approval
    - AD formal review is scheduled to start Jun 2009
    - TS work started 16 April
    - Candidate release ~ 1Q10
- V1\_2:
  - Discussions being held, a draft WID is being developed

# Access to content (2/3)

Browser Environment, Smartcard Webserver, RME, SVG, Multimodal, Data synchronisation

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- **Browser**

- V2.1: AER, Nov 2006
- V2.2: AER, Nov 2006
- V2.3: AER, Mar 2008
- V2.4: CER, Oct 2008

- **Smart Card Web Server (SCWS)**

- V1\_0: AER, Apr 2008
- V1\_1: CER, Aug 2008

- **Rich Media Environment (RME)**

- V1.0: CER, Oct 2008

- **Scalable Vector Graphics (SVG)**

- V1.0: AER, Apr 2009

- **Multimodal Multi-device (MMMD)**

- V1.0: AER, Nov 2008

- **Data Synchronisation (DS)**

- SyncML Common V1\_2\_1: AER Aug 2007
- DS Data Objects V1\_0: AER, Sep 2008
- DS V1\_2\_1: AER Sep 2007
- DS V1\_2\_2: CER Apr 2009
- DS V2\_0: CER Mar 2009

# Access to content (3/3)

Games, Content Management, Personal devices management

## • Games Services (GS)

- Games Services V1\_0: Historic release
- Mobile Gaming Evolution (MGE) V1\_0: ARR Jun 2009
- Client Server Interface (CSI)
  - V1\_0: CER: Apr 2006
  - V2\_0: WI for new version being drafted
- Mobile Gaming Centric Functions (MGCF) V1\_0
  - Some usecases are Input for RD
  - Candidate Release ~ 3Q09
- In Game Advertising (IGA) V1\_0
  - Usecases for RD almost compltd
  - Input for use cases will be blocked for RD completion.
  - Joint meeting with REQ for prepare RD review.
  - Joint meeting with MobAd for co-work.
  - Candidate release ~ 2Q09

## • Content Management Interface (CMI)

- RD approved Jan, 2009
- AD nearing completion, >90% complete
- Expect to enter AD review in next 2 weeks, and complete by end of Boston meeting (June 2009)
- Candidate release ~3Q10

## • Converged Personal Network Services (CPNS)

- Added several new reqs, including:
  - Multiple Services, Zone Based Service, Remote PNE Connection, Legacy mobile phone, Authorized Group Service, Support for the switching of voice calls, Dynamic PN registration, PN/PNE Discovery/Access, Data Integrity and Confidentiality, Authorisation and Authentication
- Initial AD contributions addressing functional /assignment to reference points and architecture entities, and enabler reuse
- CPNS relation to external standards (e.g. DLNA/UPNP, PUCC) expected to take some time/effort to sort out - further analysis contributions encouraged
- AD review completion delayed by 1 month to Jun 2009
- CER ~4Q10

## • Mobile Search Framework (MSF)

- Initial discussion on charging reqs, introduced Subscribe-Push, clarified definitions (Generic/Vertical search engine, feedback & interaction), proposed a first analysis for modularisation
- Initial CD-MSrchFramework meeting in Helsinki
- Initial AD contributions handled addressing AD baseline and scope section, and initial architecture diagram proposals
- Role of search engines in MSrch enabler a key topic
- AD review completion delayed by 1 month to Jul 2009
- CER ~ 2Q010



# Common enablers

# Common enablers (1/4)

## Location, Presence, Group/List/Properties Management

### • Location (LOC)

- Mobile Location Services (MLS)
  - V1\_0: CER Dec 2005
  - V1\_1: CER Nov 2006
  - V1\_2: CER Jul 2008
- Secure User Plane Location (SUPL)
  - V1\_0: AER Jul 2007
  - V2\_0: CER Jul 2008
  - V3\_0
    - Several Requirements and Use cases presented
    - Contributions proposing to make simple SUPL enabler independent of Access Networks and Applications
    - Discussions whether LOC WG needs more time to discuss direction of SUPL 3.0 or just focus on WID
- Location in SIP/IP core V1\_0 (LOCSIP)
  - Collected and commenced resolving Consistency Review comments
  - Over 20 CRs were discussed.
  - The XDM enabler has been restructured to ease reuse.
  - The LOCSIP AD, which is reusing XDM enabler, was updated accordingly.
  - Candidate release ~2Q09
- **Presence and XDM implementation guidelines**
  - V1\_0: ARR Dec 2Q08

### • Presence (PRS)

- SIMPLE Presence V1\_0: Historic
- SIMPLE Presence V1\_1: AER July 2008
- SIMPLE Presence V2\_0: CER Jan 2009

### • Presence Data Extensions (PDE)

- V1\_0: CRR Dec 2008

### • Presence Access Layer (PAL)

- RD progressing, nearing completion (all modules fully populated)
- Start of AD delayed
- CRR ~ 2Q10

### • XML Document Management (XDM)

- XDM V1\_0: Historic
- XDM V1\_1: AER Jul 2008
- XDM V2\_0: CER Sep 2008
- XDM V2\_1
  - RD approved Apr 2009
  - AD analysing AD impact of new requirements
  - AD work impacted by delayed XDM 2.0 AD
  - CER ~ 4Q09

### • Condition Based URI Schemes (CBUS)

- Resolution of formal AD review comments ongoing
- “non-technical” AD comments may take time
- CER ~ 4Q09

# Common enablers (2/4)

URI Schemes, Policy and Permission Management, Subscription Management, Content Screening

- **Categorisation Based Content Screening (CBCS)**
  - V1\_0: CER Mar 2009
- **Download**
  - V1\_0: AER Jul 2004
  - V2\_0: CER Oct 2006
- **Policy Evaluation, Enforcement & Management (PEEM)**
  - V1\_0: CER Feb 2009
- **URI Schemes**
  - V1\_0: CER Jul 2008
- **Global Permissions Management (GPM)**
  - V1\_0: CER Apr 2009
- **OMA Global Service Architecture (OGSA)**
  - V1\_0
    - Formal AD Review conducted 6-19<sup>th</sup> April, and 65 out of 284 review comments resolved in Helsinki
    - the Formal AD Review doubles as Consistency Review
    - CER ~ 2Q09
  - V1\_1
    - WI socialised for information, to undergo approval vote
- **OMA Service Provider Environment (OSPE)**
  - TP agreed to transform OSPE into an Reference Release
  - Consistency Review for conducted 20th Mar – 14th April, and all comments resolved in Helsinki
  - CRR ~ 2Q09
- **General Service Subscription Management (GSSM)**
  - Major blocking issue of relationship between Subscription Data and Subscriber Data resolved (agreement that Subscription Management interface is data-type independent and may be re-used for something else, e.g. subscriber data, if additional data schema are defined)
  - All but 2 ADRR issues now resolved
  - No content yet for GSSM-2 interface for subscription profile data access
  - Consistency Review start to be pushed out
  - CER ~ 3Q09
- **Secure User Profile Management (SUPM)**
  - Offline discussion to clarify respective GSSM and SUPM roles
    - GSSM will produce an interface that is data independent
    - SUPM will produce data model and data schemas, which may reuse the GSSM abstract interface
  - Clarified focus is on data model (including logical definition, representation and exposure of data) and not on physical storage of data, reuse of standard mechanisms to access data.
  - Introduced reqs for user preferences support from other OMA enablers (XDM, CBCSF, CPM, CAB)
  - CER ~ 2Q10

# Common enablers (3/4)

## Device and device properties management

### • Device Management (DM)

- Client Provisioning (CP) V1\_1: CER Feb 2003
- Device Management (DM)
  - V1\_1\_2: AER, Jan 2004
  - V1\_2: AER, Mar 2007
  - V1\_2\_1: AER Jun 2008
  - V1\_3
    - All comments within RDRR and ADRR were closed.
    - TS discussion was kicked off.
    - CER ~ 1Q10
  - DM V2\_0
    - RD agreed high level reqmts for delegation, multiple mngmnt authority, Nomadic Devices, manage Device with multiple platform/ access technologie.
    - To draft liaison response to HGI and Broadband Forum
    - CER ~ 4Q10
- Web Services Interface (WSI)
  - One CR agreed before Helsinki with a lot of changes. DM Closure Review was cancelled due to discussions on future of DM WSI WID
  - agreed he recommendation to merge DM WSI WID into NCSI WID, and discussions commenced with REQ WG
  - CER ~ 1Q10

### • Look and Feel Customisation (LFC)

- KFC submitted to consistency review (ending 14<sup>th</sup> May)
- Boston may be last F2F meeting – to close consistency review comments
- CER ~3Q09

### • DM Management Objects (MOs)

- Application Characteristics (ACMO) V1\_0: AER Feb 2009
- Connectivity (ConnMO) V1\_0: AER Nov 2008
- Software Component (SCOMO): V1\_0: CER Apr 2009
- Device Capabilities (DCMO) V1\_0: CER Apr 2009
- Firmware Update (FUMO)
  - V1\_0\_2: AER Jul 2008
- Lock and Wipe (LAWMO): V1\_0 CER Apr 2009
- Scheduling (SCHED) V1\_0: CER Apr 2009
- Smartcard (SC)
  - AD nearly completed, and Closure Review scheduled at next CC.
  - AD will be ready for formal review very soon
  - AD review completion delayed from May to June 2009
  - TS discussion kicked off and TS baseline CR under approval
  - Candidate release ~ 1Q10
- Diagnostics & Monitoring (DiagMon)
  - V1\_0: CER Apr 2009
  - V1\_1
    - 1 DiagMon Function for Memory was discussed and online revision was put into 7 days R&A
    - CER ~ 4Q09
- Browser Management Object (BMO)
  - One CR agreed at Helsinki to finalise DDS document.
  - DM Closure reviewed is scheduled at next CC., and will be submitted for consistency review thereafter
  - CER ~ 3Q09.

# Common enablers (4/4)

Transcoding, Content Identity, Look'n'Feel, APIs, Push

## • Standardised Transcoding Interface (STI)

- V1: AER May 2007

## • Device Profiles Evolution (DPE)

- Consistency review comment being addressed, 75 in total
- CR's already submitted for nearly all comments
- Consistency review completion to be slipped due to workload
- CER ~ 2Q09

## • Secure Content Identity Management (SCIDM)

- 43 comments received in AD formal review, 82% resolved
- TS document structure agreed
- CER ~4Q09

## • Mobile Spam Reporting (MSR)

- Added several new requirements, including:
  - SP-policy controlled spam report
  - suppression of body of Spam Message to protect privacy
  - reporting "fingerprint" rather than complete spam message
  - Reporter control of personal info and SpamRep sharing with 3<sup>rd</sup> parties
- CER ~ 2Q10

## • Next Generation Service Interfaces (NGSI)

- RD baseline, RD Scope, Requirements (initial set) agreed
  - Media enhancements functionalities during call setup
  - Context-based 3rd-party controlled call/behaviour methods
- CER ~ 2Q10

## • Parlay Service Access (PSA)

- PSA RD candidate April 2009
- Formal AD Review conducted Feb 26<sup>th</sup> Feb- 11<sup>th</sup> Mar, closed in Helsinki
- ARC to use open source Axis tools to generate interface definitions in Web Services Definition Language (WSDL)
- Targetting CRs to TS for September 3GPP CT plenary
- CER ~ 3Q09

## • Parlay RESTful bindings

- WI recently approved, and first activity in Helsinki
- ParlayREST creates protocol bindings for existing set of interface specifications
- No new functional requirements, no new architecture
- CER ~ 4Q09

## • Push

- SIP Push V1\_0: CER Dec 2008
- Push V2\_2
  - All consistency review comments, and ready for approval
  - CER ~ 2Q09
- Push V2\_3
  - All RD comments closed, and ready for approval
  - AD baseline agreed
  - CER ~ 4Q09



# Security and Charging

# Charging and Security

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- **Charging and M-Commerce**

- Charging
  - V1\_0: AER, Sep 2007
  - V1\_1: CER, Mar 2009
- Charging Data
  - V1\_0: CRR, Mar 2009

- **Security**

- On Board Key Generation (OBKG) V1\_0: CER Jan 2006
- Security Common Functions (SCF)
  - V1\_0: AER, Sep 2008
  - V1\_1
    - In order to maintain backward compatibility, use cases and requirements moved from previous RD to SEC\_CF 1.1 RD without changes
    - New use case, Push service security



# Backup slides

# Terms and acronyms used in these slides

## • Reviews

- Informal reviews
  - Preliminary review of specifications to expedite progress, and facilitate the subsequent formal reviews
- Requirements Review
  - RD analysis to collate and address comments on requirements
- Architecture Review
  - AD analysis to collate and address comments on architecture
- Consistency Review
  - analysis of complete set of specifications to collate and address comments on the release package

## • Releases

- Candidate release
  - Approved set of open technical specifications and/or other technical material forming
    - an **Enabler Release** that can be implemented in products and solutions and which can be tested for interoperability, or
    - a **Reference Release** that serves an alternative purpose, e.g. as a set of rules and guidelines for developing other Releases
- Approved release
  - Candidate release which has had a public comment period (minimum 30days) and in addition (for Enabler Releases) completed the applicable interoperability validation

## • Acronyms

- AD - Architecture Document
- AER - Approved Enabler Release
- ARR - Approved Reference Release
- CER - Candidate Enabler Release
- CRR - Candidate Reference Release
- ETS - Enabler Test Specification
- EVP - Enabler Validation Plan
- MO - Management Object
- RD - Requirements Document
- R&A - Review and approval (website agreement tool)
- TFP - Test File Package
- TP - Technical Plenary
- WI - Work Item