



OMA's Role in the Interoperability of NGNs

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Agenda

- OMA Overview and Organization
- Current Enablers under Development
- IMS Positioning
- Relationship with ETSI, 3GPP, TISPAN
- Overview of OMA's Interoperability Testing
- Testing OMA's IMS-Based Enablers
- IMS TestBed Co-operation
- Current Certification Initiatives
- Opportunities for 2007 & 2008

The Open Mobile Alliance (OMA)

- Open Mobile Alliance is an international organization, developing open, market driven interoperable specifications for global adoption
- Created in June 2002 by leading mobile operators, device and network suppliers, information technology companies, content and service providers – the entire mobile value chain
- Over 350 Members from all regions, cooperating with various other mobile and fixed line organizations.
- In 2005 OMA expanded its charter to include more dynamic interaction with IT and Consumer Electronic industries and is becoming involved in many areas of fixed mobile convergence.

OMA Vision

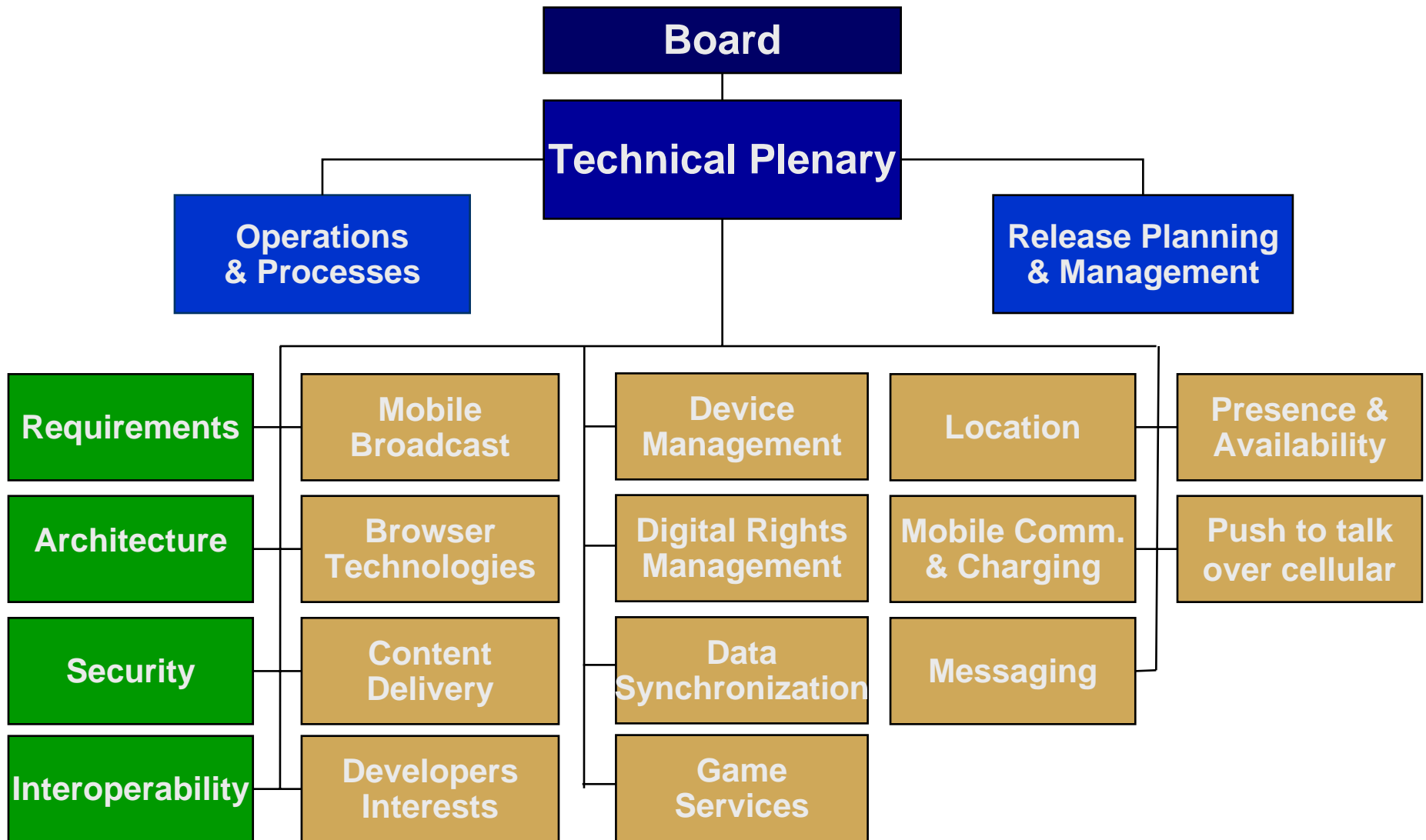
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No matter what device I have,
No matter what **service** I want,
No matter what **carrier** or **network** I'm using,
I can **communicate, access** and
exchange information.

OMA Participation

- About 350 Member Companies
 - 17 Sponsors, 94 Full Members, 109 Associates and 131 Supporters
- 6 Specification Development Meetings per Year
 - 600 attendees contributing to Enabler Specifications
 - 25 parallel meetings over 5-6 days
- 5 TestFests per Year
 - About 110-130 Engineers
 - 60 - 70 implementations of real client and server products

OMA Organization



Current Work Items - Enablers

- 27 Enablers already Approved
 - Testing Completed
- 23 Enablers in Candidate Status
 - In Interoperability Testing to prove Complete
- Over 100 Active Work Items
 - Requirements, Architecture, Specification Development, and Consistency Review

OMA and IMS

- OMA's use case and market requirement driven approach complements the standardization achievements of 3GPP and 3GPP2 on IMS, with additional market input
- As the main industry body for the development of mobile service enabler specifications, OMA has the potential to define service enablers that leverage these IMS capabilities in an interoperable and consistent way
- When developing OMA service enablers it can be assumed that the underlying network provides the same functionality as IMS
- Further, OMA may work on service enablers that take advantage of SIP as a protocol but do not require IMS

Approved IMS Based Enablers

- IMS in OMA
 - Architecture Specification
- Presence-SIMPLE v1.0
- Push-to-talk Over Cellular v1.0
- (XML Document Management) v1.0
 - Approved Enablers
- http://www.openmobilealliance.org/release_program/index.html

IMS Enablers in Development

- IM-SIMPLE (IM over SIP)
 - In Consistency Review – Expecting Candidate Release shortly
- Converged IP Messaging
 - Working on Requirements for the new Specification
- Push Over SIP
 - In Development

IMS Enablers in Development

- Presence V2.0
 - In Development
- Push-to-talk Over Cellular v2.0
 - New Media Types, PoC Sessions with Multiple Groups, PoC Box, etc.
 - In consistency review – new Candidate Expected Shortly
- Push-to-talk Over Cellular v2.1
 - External Media, Session Management, etc.

Co-operation with External Groups

- 37 Co-operation Agreements already in place
 - Including 3GPP, 3GPP2 and ETSI
 - Many involving multiple WG relationships
 - Joint Meeting held with TISPAN
 - Adopting OMA Enablers

OMA TestFests

- OMA interoperability events
- Held regularly throughout the year
- Specific invites to IMS teams to support the OMA event
- At least 2 systems at each event



OMA TestFests in Detail

- Provides confidential neutral environment
- Allows inter-working between competitors
- Provides complete infrastructure in a real world environment
 - 2G and 3G networks (GSM, CDMA, W-CDMA)
 - WAP Gateway, PPG, SMS Centre, IMS System(s)
- Formal testing against Test Specifications
- Results reported anonymously to IOP WG
 - Allows assessment of enabler for approval
- Problems and issues fed back into OMA process through neutral reporting system

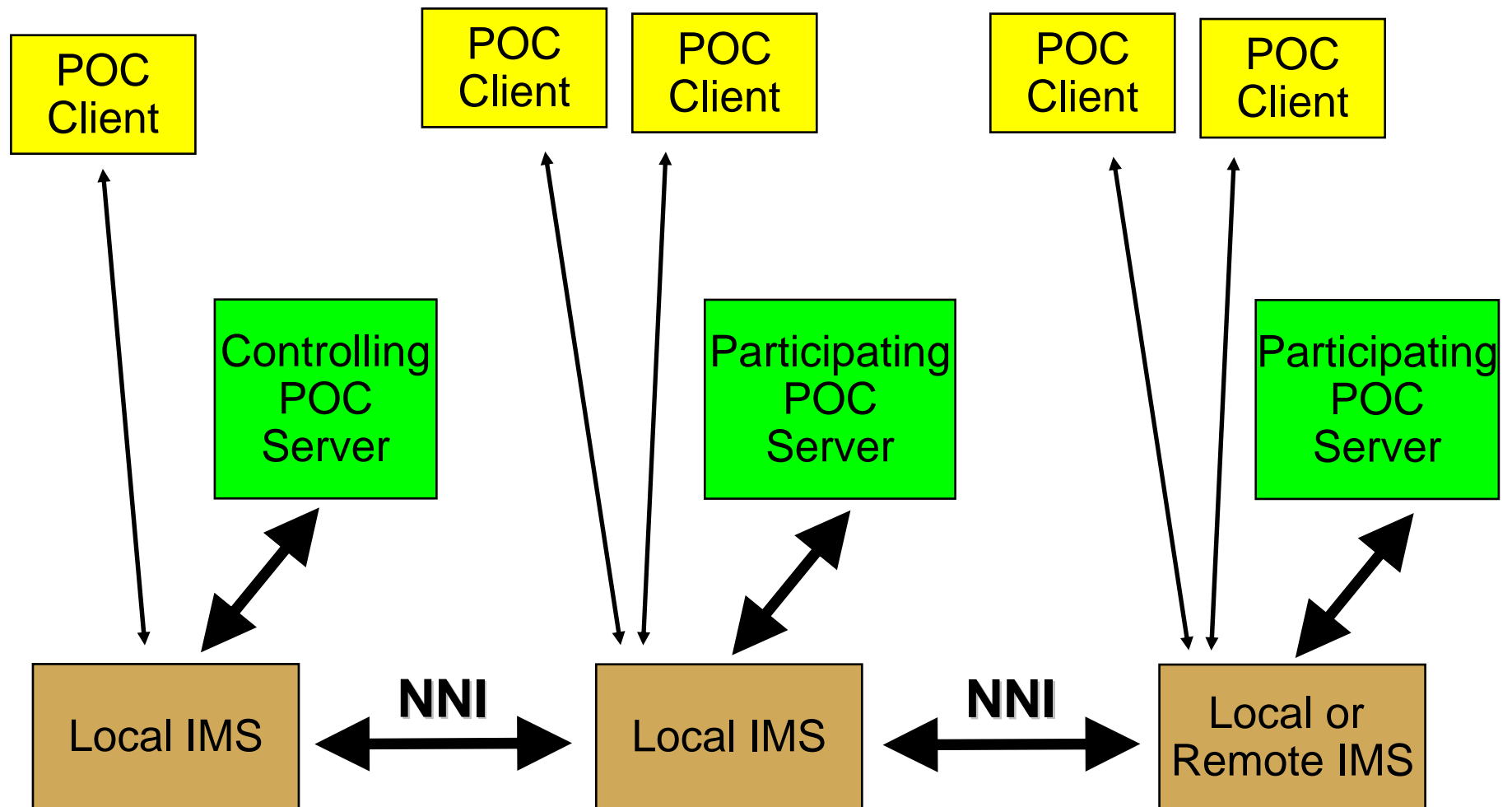
OMA TestFest Achievements

- 20 Test Events held to so far
- Over 1100 implementations tested
 - 144 in 1st Year (11/02 – 10/03 – 5 events)
 - 178 in 2nd Year (11/03 – 10/04 – 4 events)
 - 263 in 3rd Year (11/04 – 10/05 – 4 events)
 - 429 in 4th Year (11/05 – 10/06 – 5 events)
 - 116 so far in Year 5.
- Over 500 problems and issues raised to OMA
 - All related to Specifications
 - Implementation errors dealt with by participants

Testing IMS-Based Enablers

- PoC v1.0, Presence v1.0
 - Tested at 10 OMA TestFests
 - 2 or 3 IMS Systems established for each event
- Focus on Enabler Functionality
- Some NNI Testing undertaken at events
 - Typically 3 PoC Clients, 2 PoC Servers and 2 IMS Systems
 - No Authentication or Compression
 - Limited Success during tests

Push-to-talk Test Setup



TestFest-19 in Helsinki

- Normal PoC Testing with 3 IMS Systems
- Run IMS NNI testing at the end of the event
- Able to build test session of:
 - 5 Clients (no more than 2 on any server)
 - 3 Servers (one as Controlling Server, 2 as Participating Servers)
- Testing Authentication and Compression for the first time

Certification

- OMA does not run a Certification Program
 - But this is being reviewed in 2007
- OMA operate Product Listing Initiative
 - Recognition for OMA Members whose products participate in OMA TestFests
- Work with GCF and Others to run Programs
 - GCF developed PoC Certification Program in 2006, based on OMA Test Specifications

Opportunities in 2007 & 2008

- Several TestFests planned for 2007 / 2008
 - Over 10 new Enablers will start Testing
 - Including 5 new IMS-based Enablers
- Increased IMS testing
 - Encourage Hosts to enable Authentication, etc.
 - More NNI scenarios to be planned
- Further co-operation with ETSI's IMS TestBed to be explored
- Other Opportunities to be explored

Thank You



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Additional slides for reference

- TestFest Dates/Hosts in 2007
- Useful Information Links
- Glossary of OMA Terms

TestFest Dates/Hosts in 2007/2008

- 17th - 25th May 2007
 - China Mobile, Beijing, China
- 7th - 14th September 2007
 - Vodafone, Düsseldorf
- 9th - 16th November 2007
 - Mobitel & Sintesio, Bled, Slovenia
- 2008 Dates available on OMA website
 - Locations still being planned

Useful Information Links

- OMA TestFest Overview
 - http://www.openmobilealliance.org/testfest/overview/TestFest_Overview.html
- OMA Product Listing Website
 - <http://product.openmobilealliance.org>
- OMA Test Tools
 - <http://www.openmobilealliance.org/testfest/>
(members only)

Glossary of Interoperability Terms

Enabler Test Requirements (ETR)

- created and maintained by TWG responsible for the technical specifications
- ETR covers at least those requirements documented in the RD & AD and identify any technical functionalities that should be covered by testing.
- ETR includes prioritisation guidance for testing from TWG perspective.

Enabler Test Guidelines (ETG) evolving to Enabler Validation Plan (EVP)

- created and maintained by IOP WG.
- includes a definition of scope for testing of the Enabler including Interoperability testing details, re-prioritisations if identified and a preliminary proposal on the requirements for a test tool for the Enabler.
- will be used to identify the financial and legal requirements

Enabler Test Specification (ETS)

- created and maintained by IOP WG.
- defines the test cases for the Enabler in question, including the methodology to test, expected inputs and outputs, responses and behaviour for each specified test.

TestFest (available to members only)

- multilateral test event for testing interoperability.
- results are confidential (NDA to be signed)

Bilateral testing (available to members only)

- test event between 2 or more OMA members – supported by OMA staff
- should follow the same rules that OMA TestFests

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