

# Open Mobile Alliance Instant Messaging and Presence Service

**Mobile Messaging Americas 2003**

**June 11-12, 2003**

**Miami, Florida**

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# Open Mobile Alliance

- In June 2002, the mobile industry set up a new, global organization called the Open Mobile Alliance (OMA)
- The Open Mobile Architecture initiative and the WAP Forum formed the foundation for the Open Mobile Alliance
- The following organizations have integrated into OMA:
  - Location Interoperability Forum (LIF)
  - SyncML Initiative
  - Multimedia Messaging Interoperability Process (MMS-IOP)
  - **Wireless Village**
  - Mobile Gaming Interoperability (MGIF)
  - Mobile Wireless Internet Forum (MWIF)
- Other industry forums focusing on interoperability and open standards are welcome to join



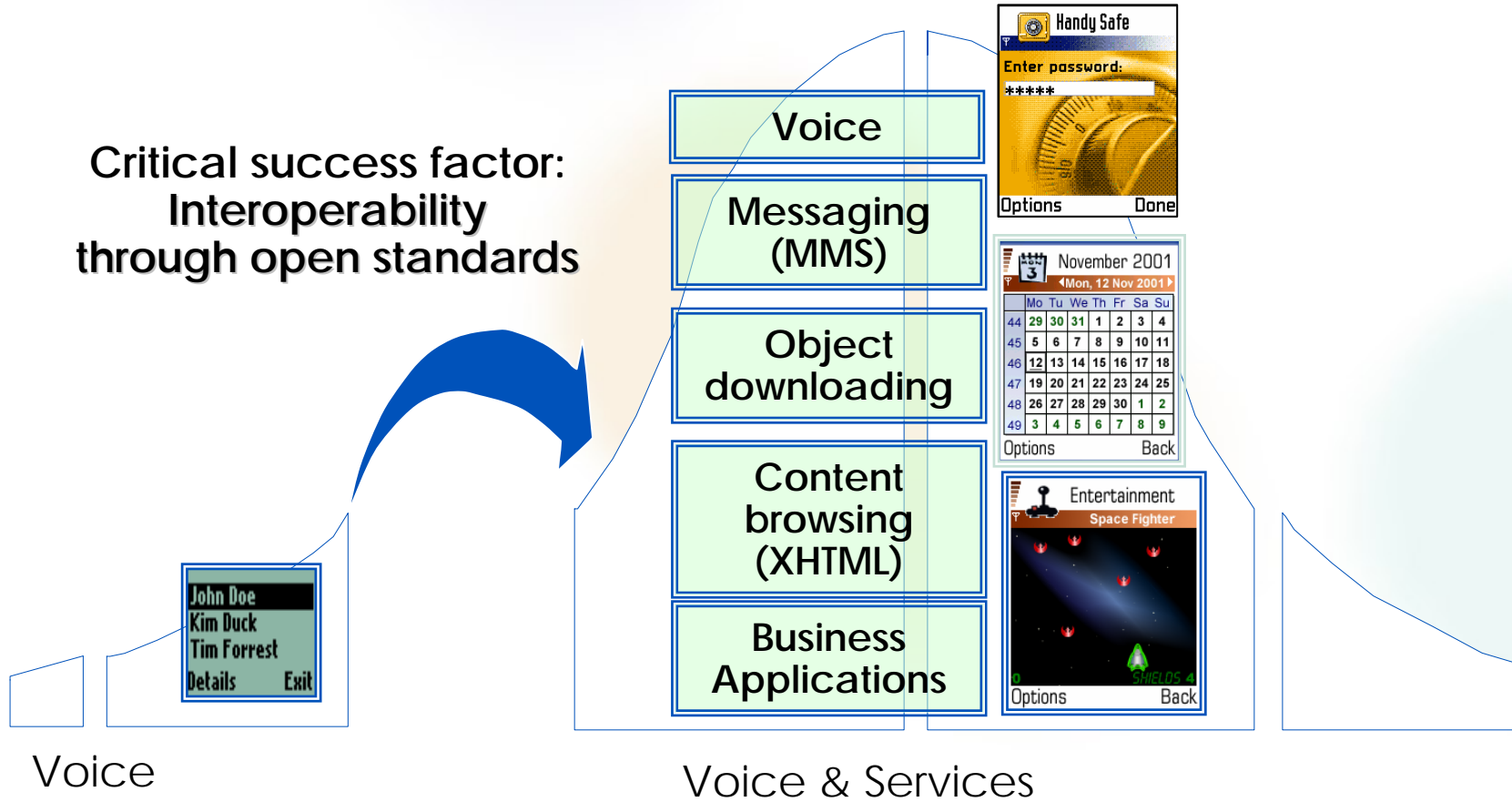
# What is OMA?

- The OMA is designed to be a center for mobile service specification work, stimulating and contributing to the creation of interoperable services

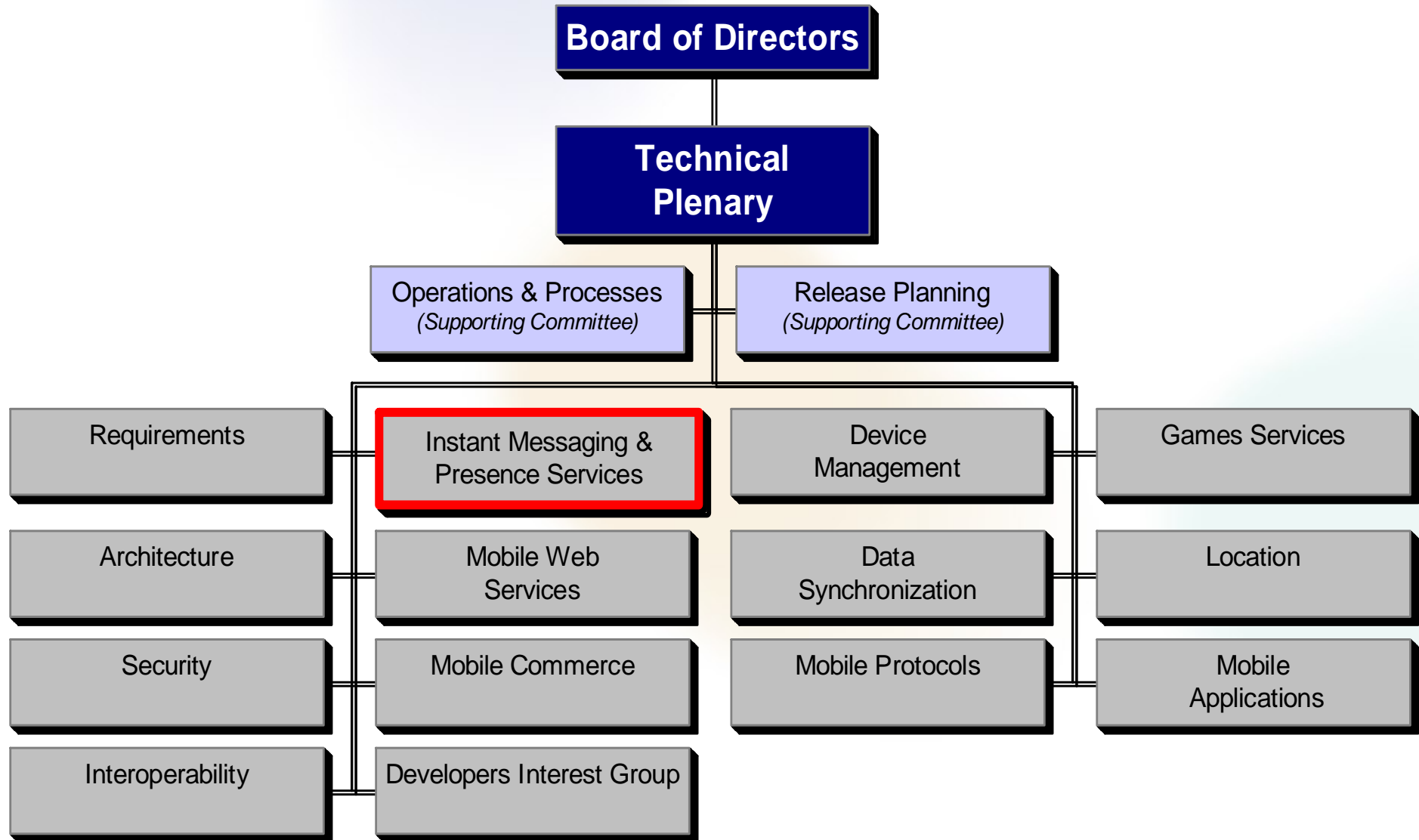
*“No matter what device or operating system you have, no matter what service you have, no matter what carrier you use, you can communicate and exchange information.”*

# The Mobile Industry Has faced New Challenges

Critical success factor:  
Interoperability  
through open standards



# OMA Organisation



# Principles of the Open Mobile Alliance

## Principles

- Products and services are based on open, global standards, protocols and interfaces and are not locked to proprietary technologies
- The applications layer is bearer agnostic (examples: GSM, GPRS, EDGE, CDMA, UMTS)
- The architecture framework and service enablers are independent of Operating Systems (OS)
- Applications and platforms are interoperable, providing seamless geographic and inter-generational roaming

# OMA Charter

## Charter

- Deliver responsive and high-quality open standards and specifications based upon market and customer requirements
- Establish centers of excellence for best practices and conduct interoperability testing (IOT), including multi-standard interoperability to ensure seamless user experience
- Create and promote common industry view on an architectural framework
- Be the catalyst for the consolidation of standards fora; working in conjunction with other existing standards organizations and groups such as IETF, 3GPP, 3GPP2, W3C, JCP

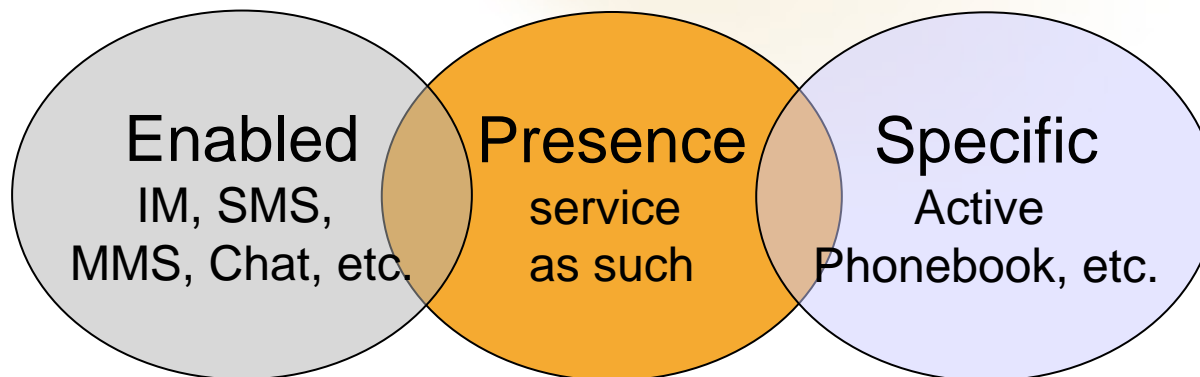
# Membership Update

- As of June, 2003, OMA has approximately 300 companies – representing the entire mobile value chain
  - Mobile Operators
  - Wireless Vendors
  - Information Technology Companies
  - Content Providers & Others



# Presence as an Enabler for Other Applications

- Applications in the future are
  - Presence enabled (IM, multi-player games, etc.)
  - Presence specific (active phonebook, etc.)
- IM being the first presence enabled application
- Presence enables other applications to be richer, better and more valuable for the end user



# Presence Enabled Communication

- Presence has great latent demand for everybody
- People are interested in what their close contacts are up to
- Presence initiates other communication
- People do messaging instead of placing unanswered calls
- Instant Messaging has been a great success in fixed Internet and provides a somewhat comparable example

# Instant Messaging

- Near real-time exchange of messages containing multimedia content in a one-to-one or one-to-many connection
- Instant Messaging is the first presence-enabled application in the mobile environment
- Others to follow
  - Shared content
  - White board, conferencing, etc.
- Group communication
  - Public/private chat rooms

# History

- Wireless Village was formed in 2001
- The first WV 1.0 specifications Feb 2002
- Consolidation into OMA in October 2002
- OMA IMPS v1.1 published November 2002
  - Based on Wireless Village v1.1 specifications
- OMA IMPS v1.2. published Feb 2003
- So far 42 clients and servers have passed IOT events

# OMA IMPS WG Charter

- “The Instant Messaging and Presence Service (IMPS) working group will identify, specify and maintain the requirements, architecture, technical protocol/format/interface and interoperability specifications and test events for the OMA interoperable service enabler for mobile instant messaging and presence services (IMPS).”
- The work group has following work items in its charter
  - Maintenance of Wireless Village specifications (v. 1.3. ongoing)
  - Web Services Interfaces specification (ongoing)
  - SIP/SIMPLE based IMPS service specifications (ongoing)
  - WV – SIMPLE interoperability (pending)

# OMA IMPS 1.x Solution



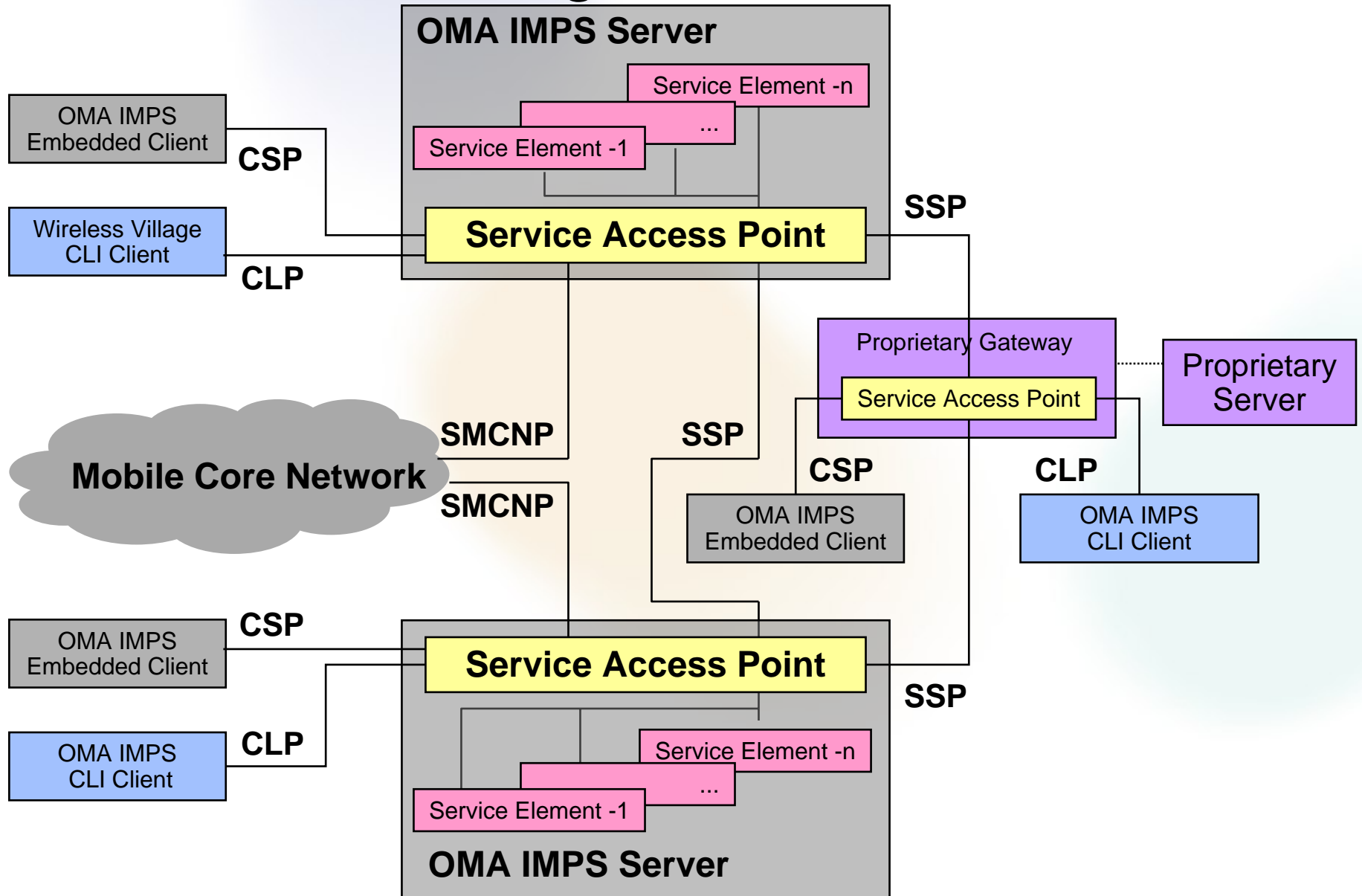
- OMA's Instant Messaging and Presence Services (IMPS) includes four primary features:
- Presence
  - Client device availability, user status, location, client device capabilities and searchable personal statuses such as mood and hobbies
- Instant Messaging
  - A familiar concept in both the mobile and desktop PC worlds; interoperable mobile IM in concert with other innovative features to provide a new user experience

# OMA IMPS 1.x Solution (cont'd)



- Groups (or chat)
  - A fun and familiar concept on the Internet
- Shared Content
  - Allows users and operators to set up their own storage area where they can post pictures, music and other multimedia content to share with others

# OMA IMPS 1.x System Architecture



# Modus Operandi

- The specification work flows in four stages:
  - Market requirements
  - High level architecture
  - Specifications
  - Interoperability testing



[www.openmobilealliance.org](http://www.openmobilealliance.org)