Mobile Wireless Internet Forum (MWIF)

Interim Technical Committee Presentation to Founders Meeting

Agenda

- **Architecture Principles**

- **Working Groups**

- **Meeting Schedule**

Mobile Wireless Internet Forum (MWIF) Architectural Principles

18 January 2000

Architecture Principles (1)

- **Embrace internet technologies and services**

- **Separation of Concerns (Service from Delivery)**
  - **Separation of transport and signaling**
  - **Separation of mobility management from session control**
  - **Aid Operators/ISPs ability to independently upgrade sub-systems;**
  - **Allow Operators/ISPs to build multi-vendor systems**

- **Open all pertinent interfaces**
  - **including RAN internal interfaces, core network interfaces**
  - **floating transcoder function (not tied to radio access network)**

- **Independence of wireless access technology**
  - **Extend IP transport of traffic and control to BTS**
  - **Provide IP end-to-end from terminal for data applications**
  - **Inter-technology Mobility Management (separate Mobility Management function)**

- **Global alignment**
  - **Eliminate regional/country differences in key interfaces**
  - **Globally accessible services**
  - **Interoperability with 2G and non-IP networks and services**

Architecture Principles (2)

- **Harmonisation across access technologies**
  - Extends from Wireless to Wireline, xDSL, Cable, etc.

- **Distributed architecture**
  - Intelligence distributed in the network and end points
  - Scalable

- **Performance, Quality, Reliability**
  - End-to-end QoS mechanism for any given service

- **Security**
  - adopt Internet trust models
  - support authentication, confidentiality, integrity, non-repudiation

Architecture Principles (3)

- **O&M**
  - **standardised, compatible network management interfaces**
  - **flexible accounting and billing**

- **Services**
  - **Support wide range of services, including real-time, non-real-time, multi-media services**
  - **Rapid service creation**
  - **Support of Third Party service development**
  - **Support software re-use/re-usability**
  - **User customisation of services**

- **Support regulatory requirements**
  - **legal intercept**
  - **number portability**
  - **and other regional requirements**

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Technical Committee Working Groups

4 Working Groups

- **Operator and ISP Requirements**

- **Wireless Internet Architecture**

- **Influencing Standards**

- **IP to the BTS**

Op and ISP Requirements WG

- **Specify operator and ISP requirements**
  - includes subscriber requirements
  - include regulatory requirements

- **led by Vodafone Airtouch**

- **met 18 Jan 2000**
  - reviewed Architecture principles from workshop
  - presentation to 3GPP IP workshop 7-9 Feb 2000

Wireless Internet Architecture WG

- **Develop MWIF reference architecture**
  - to meet Architecture Principles
  - catalyst for consolidation of existing architectures
  - produce gap analysis
  - 'benchmark' existing architectures against principles
  - adopt best in class
  - submission to 3GPP and 3GPP2 planned

- **led by Orange**

- **workplan**
  - initial architecture framework developed at workshop
  - e-mail contribution on benchmarks by 28 Jan 2000
  - collation of input & review by e-mail
  - audio-conference review on 11 Feb 2000
  - update and final e-mail review
  - agreement at TC meeting 29 Feb / 1 March 2000
    - » members only

Influencing Standards WG

- **Define mechanism for contributing to relevant standards groups**
  - **focus on 3GPP, 3GPP2 and IETF initially**

- **led by IBM**

- **workplan**
  - **e-mail contribution by 28 Jan 2000**
  - **collation of input & review by e-mail**
  - **audio-conference review on 11 Feb 2000**
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    - » **members only**

IP to BTS WG

- **Develop the technical solution to support "IP to the BTS"**
  - to support plug and play base stations
  - to support software definable core network
  - to support single IP based "backhaul" network

- **led by Sun**

- **workplan**
  - initial working proposals to the TC meeting 29 Feb / 1 March 2000(member only)
  - collation of input & review by e-mail

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Interim Technical Committee Schedule

Meeting Schedule 2000

- **Face-to Face**
  - **29 Feb / 1 March 2000 Bath UK - Hosted by Orange**
  - **May 9/10 Japan - Hosted by DDI**
  - **July 25/26 Toronto - Hosted by Solect**
  - **October 10/11 Munich - Hosted by Siemens**

- **Audio Conference**
  - **Feb 11 thence first Tuesday every month starting March 7th**

- **Email**
  - **Continuous (Normal mode of interaction)**