Draft Summary of 3GPP Future Evolution Workshop October 2001

FEW-039

Outline

- **Basic assumptions**
- **High level requirements**
- **Focus Areas**
- **Service Examples**
- **Summary**

Basic assumptions

- **Future is evolution not revolution**
- **Where possible, re-use existing techniques/technologies (potential through co-operation with external fora)**
- **Stabilise before extending**
- **Improve requirement setting, e.g., include commercial considerations**
- **Separate fundamental technology (evolutionary part) from dynamic applications (to ensure rapid development of applications)**

High level requirements (1/3)

- **New service/functions shall provide new streams of revenue**
- **Simplicity for the end user**
- **Simplicity of network - Optimisation and cost reduction**
- **Limit the number of options**
  - **not several services to offer roughly the same service**
  - **reduce number of competing toolkits**
  - **not several techniques to provide same service**
  - **reduce the number of options within protocols**

High level requirements (2/3)

- **Define Generic APIs which allow application creation. The APIs should include interface with underlying QoS capabilities**
- **Create a simple IMS interface towards external networks**
  - **User access**
  - **Service interworking**
  - **Application delivery**
- **Improve O&M and customer care possibilities**
- **Improvement for PS domain (e.g., traffic increase)**
- **Radio Access improvements, e.g., improved spectrum efficiency, quality and coverage**

High level requirements (3/3)

- **Utilisation of alternative access technologies, e.g., for hotspot coverage (e.g. WLAN, HIPERLAN, 802.11 a+b, Bluetooth, new technology)**
- **Seamless service provision across environments**
- **Exploitation of inherent network functions such as security, authentication billing etc.**
- **New functions needs to include**
  - **Charging**
  - **Security**
  - **O&M with support for customer care**
  - **Testing**

Focus areas

- **Enhancements of IMS**
- **Optimisation of dual-mode UTRAN-GERAN**
- **Wireless LAN Integration/interworking**
- **Multimedia Broadcast and Multicast**
- **Infrastructure sharing**
- **Utilisation of extension bands**
- **Open & secure terminal Architecture**
- **Support for Corporate Network**
- **Support of applications scalable to the terminal capability and environment (e.g. XHTML, J2ME, scalable audio/video)**
- **Improved QoS handling for realtime**

Service Examples (1/3)

- **Financial**
  - **Micropayment**
  - **Mobile banking**
  - **Shopping**
  - **Stock Trading**
  - **Recognition techniques**
- **Location Based**
  - **Advertising**
  - **Find a friend, my car, restaurant etc.**

Service Examples (2/3)

- **Control and Monitoring**
  - **Telematics**
  - **Remote control of appliances**
  - **Machine to machine communication**
- **Multi-user applications**
  - **Video chat**
  - **Game highlights**
  - **Shared experience**
- **Multimedia**
  - **Voice/multimedia over IP**
  - **Adult chat line**
  - **Multimedia Broadcast and Multicast Service***

Service Examples (3/3)

- **Information**
  - **Live news**
  - **Transportation**
  - **Preload info prior to travelling**
- **Distributed Speech Recognition (DSR)***
- **Digital Rights Management (DRM)***
- **Generic user profile***
- **UE functionality split***

*** Work item exist**

Summary

- ***Be realistic*** **– correct and complete the existing standard before any major new changes are made**
- **To fully utilise the existing standard, the end-to-end and end-user aspects needs to be in focus**
  - **Improve the support for 3rd party applications**
  - **Simplicity for the user**
  - **Better mechanism for customer care**
- **Reduce deployment cost and options**
- **Spectrum efficiency needs to be kept in mind**