

Source: UMTS Forum

Title: Liaison statement on UMTS Release 2000

Agenda item: 7

Document for:

Decision	
Discussion	X
Information	

Background

The following liaison statement was presented to TSG_SA Meeting #6 in Nice, France on 15th – 17th December 1999.

However, because of the significance of this liaison statement on the future work programme, the UMTS Forum wishes to present it to the PCG#3

Liaison Statement

During UMTS Forum GA#18 a workshop was conducted to discuss and reach consensus on the Forum's view on Release 2000, including both radio access and core network aspects.

The following recommendations to 3GPP are based on some key benefits to the Operators and Vendors community:

- strong drive towards introducing an architecture that would considerably reduce Operators costs, including equipment, network deployment, maintenance etc..
- flexibility in service creation especially in the area of Internet integration e.g. opportunity to quickly provide value added services and create new service revenue streams
- an effective way to make available to mobile users integrated services such as multimedia

The UMTS Forum would like to draw the attention of 3GPP to the following recommendations:

1) The UMTS Forum supports an IP-based solution for the Release 2000 architecture. In this respect, the UMTS Forum would ask the 3GPP to analyse the following issues:

- Quality of services for real-time services: including voice and music
- IP version to be used in standardisation (IPv4 vs. IPv6)
- Security aspects
- Mobility management
- Global roaming including terminal circulation

The solutions to the above-mentioned issues should take into account the following requirements:

- Phased introduction of the IP technology in the UMTS system. As an example UTM Forum has identified four possible phases:
 - Phase 1: IP as the technology to be used in the interconnection of 3G networks (i.e., NNI)
 - Phase 2: IP introduced within the UMTS Core Network, down to and including the Radio Network Controller.
 - Phase 3: IP introduced also within the RAN, down to the Node B.
 - Phase 4: IP down to the terminal, over the radio interface.
- Smooth evolution from Release 99. The IP solution, which can be seen as a revolutionary approach, must be reached through an evolution from current solution.
- Support of backward compatibility for Release 99 circuit-oriented services.
- Compatible solutions across different Releases.
- Single global IP solution preferred. The number of options must be minimised both within 3GPP and world-wide.

3GPP should clarify which level of IP introduction in the UMTS system, solving all the related issues, could be achieved in the time frame of Release 2000.

- 2) The UTM Forum would like to emphasise that stabilisation of Release 99 should be achieved during the Release 2000 work, especially in the Radio Access Network area, since this segment of the network is the most innovative part of UTM.
- 3) 3GPP should clarify the level of interconnection between 2G (GSM/GPRS) and 3G networks that is being specified (at the RAN level or at the Core Network level).
- 4) 3GPP should consider a system approach including services, applications and network.
- 5) The UTM Forum stresses the importance of network management, billing and service provisioning issues.
- 6) 3GPP should develop test requirements for all the standardised modules.
- 7) In developing an IP network, 3GPP should be open to incorporate IETF working methods as appropriate.



UMTS Forum Vision on Release 2000

Antonella Napolitano

Chairperson UMTS Forum 3GPP Co-ordination Group

3GPP TSG SA#6

Nice, 15th - 17th December 1999

 *Centro Studi e Laboratori
Telecomunicazioni S.p.A. - Torino (Italy)*

UMTS Forum Recommendations



The UMTS Forum recommendations to 3GPP on Release 2000 are based on some key benefits to the Operators and Vendors community:

- Strong drive towards introducing an architecture that would considerably reduce Operators costs, including equipment, network deployment, maintenance, etc..
- Flexibility in service creation especially in the area of Internet integration e.g. opportunity to quickly provide value added services and create new service revenue streams
- An effective way to make available to mobile users integrated services such as multimedia

Recommendation No. 1



The UMTS Forum supports an IP-based solution for the Release 2000 architecture. In this respect, the UMTS Forum would ask the 3GPP to analyse the following issues:

- Quality of services for real-time services: including voice and music
- IP version to be used in standardisation (IPv4 vs. IPv6)
- Security aspects
- Mobility management
- Global roaming including terminal circulation

3GPP should clarify which level of IP introduction in the UMTS system, solving all the related issues, could be achieved in the time frame of Release 2000.

Requirements (1/2)



- Phased introduction of the IP technology in the UMTS system. As an example UMTS Forum has identified four possible phases:
 - Phase 1: IP as the technology to be used in the interconnection of 3G networks (i.e., NNI)
 - Phase 2: IP introduced within the UMTS Core Network, down to and including the Radio Network Controller
 - Phase 3: IP introduced also within the RAN, down to the Node B
 - Phase 4: IP down to the terminal, over the radio interface

Requirements (2/2)



- Smooth evolution from Release 99. The IP solution, which can be seen as a revolutionary approach, must be reached through an evolution from current solution.
 - Support of backward compatibility for Release 99 circuit-oriented services.
 - Compatible solutions across different Releases.
 - Single global IP solution preferred. The number of options must be minimised both within 3GPP and world-wide.
-

Recommendations No. 2 - 4



- The UMTS Forum would like to emphasise that stabilisation of Release 99 should be achieved during the Release 2000 work, especially in the Radio Access Network area.
 - 3GPP should clarify the level of interconnection between 2G (GSM/GPRS) and 3G networks that is being specified (at the RAN level or at the Core Network level).
 - 3GPP should consider a system approach including services, applications and network.
-

Recommendations No. 5 - 7



- The UMTS Forum stresses the importance of network management, billing and service provisioning issues.
 - 3GPP should develop test requirements for all the standardised modules.
 - In developing an IP network, 3GPP should be open to incorporate IETF working methods as appropriate.
-

Other issues



The transfer of GSM radio specifications to 3GPP is supported by UMTS Forum, assuming that the following conditions are met:

- No delays should be introduced to the ongoing work on both third generation and active work items on GSM.
 - The transfer should improve the efficiency of the resources involved in the standardisation process.
 - The effective management of GSM standards should be maintained after the transfer of the GSM specifications.
-