Source: Convenor for WG2 (Yukio Hiramatsu, NTT)

Title: Proposed Draft report of WG2 to the Second TSG-SA

Document for: Discussion

Agenda Item: 9.2 TSG-SA Working Group 2 Report

1. General Overview of Progress

After the first TSG-SA, two WG2 meetings were held as follows:
-   The first WG2 held in Walnut Creek, California on 20 – 21 January, 1999
-   The second WG2 held in Kista, Stockholm on 4 – 5 February, 1999

As the result of the two WG2 meetings, the following are agreed upon:
-   Terms of Reference for WG2
-   Initial list of deliverables and ~~base~~ starting documents
-   Initial list of Work Items
-   Work plan for each deliverable
-   Mechanism for technical coordination across TSGs and WGs
-   Proposal of the project support
-   Schedule of the future WG2 meetings

Each item is described in the following sections.

2. Terms of Reference for WG2

WG2 Terms of Reference was discussed based on the relevant part of the Terms of Reference for TSG-SA. As the result it was agreed to replace the phrase "identification of key information flows" with "associated high level functional interactions" in order to avoid possible duplication of work with other WGs. With this modification WG2 Terms of Reference was agreed as follows:

> "Definition, evolution and maintenance of the overall architecture including the assignment of functions to particular subsystems (e.g. UTRAN, CN, Terminal, USIM) and associated high level functional interactions.
>
> In co-operation with the other TSGs, define required services, service capabilities and bearers capabilities offered by the different subsystems, including Quality of Service requirements for access to both packet and circuit switched networks.
>
> In addition the Architecture Working Group will consider how to carry out the technical co-ordination and overview role with the other 3GPP TSGs."

3. Initial list of WG2 deliverables and starting documents

The input documents from ETSI and TTC were considered. Finally, it was agreed to start with the deliverables and ~~base~~ starting documents that are identified in SMG12. Initial set of those is shown in the following table. It should be noted that t~~This~~ list ~~list~~ is a preliminry list and may be enhanced based on further input from Partner Organizations and Individual Members.

Doc. No.	Source	Title	~~Base~~ Starting document, Version	Rapporteur
TS23.01	SMG12	General UMTS Architecture	TS23.01	Magnus Olisson
TS23.10	SMG12	Access Stratum	TS23.10,	Oscar Lopez-Torrez ~~Lopez~~
TR23.20	SMG12	Evolution of GSM platform towards UMTS	TR23.20	Andre Jarvis
TR23.30	SMG12	Principles for the Iu interface	TR23.30, V.2.0.0	Bo Axerud
03.02, 03.03 and others		(depends on SMG plenary decision)		
TR	SMG12	End-To-End QoS Management	TR	
TR	SMG12	IP-in-IP tunneling in GPRS backbone for UMTS phase 1	TR	Andrea Calvi, Antonella Napolitano
TR	SMG12	Combined GSM and Mobile IP Handling in UMTS IP CN, phase 1 and 2	TR	Elisabeth Hubbard
TR	SMG12	Investigation of a UMTS CN Based on ATM	TR	Mick Wilson Adel Rouz
TS~~TR~~	SMG12	UMTS Open Service Architecture	TS~~TR~~	Rob Schmnersel
TR	SMG2	Multimedia in UMTS	TR	
TS07.60	SMG4	MS Support of GPRS		
TS09.61	SMG4	Interworking between the PLMN and IP-based networks		
SMGMM 98053	SMG4	Summary of Conclusions on Multimedia		
SMGMM 98054	SMG4	Summary of Conclusions on Multimedia Store and Forward		
~~SMGMM~~ TR MM98049	SMG4	Real Time Multimedia in UMTS (Draft Report)		

4. Initial list of work Items to be dealt with in WG2

Proposed Work Items from ETSI (as described in UMTS.30.00) and those from TTC (as proposed in TSG#1Doc059) were considered. As the result it was agreed to start with Work Items of ETSI. The initial list of WG2 Work Items is shown in the following table. It should be noted that tThis is a preliminary list and may be enhanced based on further input from Partner Organizations and Individual Members.

No.	Work Items	Linked Work Items	Output Docs (Note)	Rapporteur
1	ETE UMTS QoS management	Bearer service negotiation and teleservice		
2	IP in IP tunneling in GPRS backbone for UMTS Phase 1	GPRS Mobile IP interworking		Andrea Calvi, Antonella Napolitano
3	Combined GSM and Mobile IP handling in UMTS IP CN phase 1 and 2	GPRS Mobile IP interworking		Elisabeth Hubbard
4	UMTS core network based on ATM transport		(23.30)	Mick Wilson Adel Rouz
5	UMTS Open Service Architectue	CAMEL Phase 3, SIM application toolkit, MExE, Service continuity and provision of VHE via GSM/UMTS		Rob Schmersel
6	Support of non-realtime multimedia messaging service	Multimedia in UMTS, Numbering and addressing		
7	Multimedia in UMTS	Multimedia messaging, Numbering and addressing		
8	Study on provision of facsimile services in GSM and UMTS	None		
9	Provision of text telephony service in GSM and UMTS	Multimedia in UMTS		
10	Virtual Home Environment	Service management, CAMEL Phase 3, MExE, SIM toolkit		
11	Charging and Billing for GPRS – Hot Billing (R99)	None	02.60, 03.60	
12	Point-To-Multipoint services (R99)	UMTS	03.61, 03.62	
13	New access network to core network (BSS-NSS) interface		23.30	
14	Architecture overview of the GSM-UMTS systeem		23.01, 23.10	
15	Architecture the GSM-UMTS platform		23.20, 23.05	

(Note) See UMTS Work Programme document (30.00 V.new) for complete list of output documents for each Work Item.

5.   Work Plan for each deliverable

(to be provided) It is proposed that Work Plan for each TS/TR should be described including major milestones and remaining study items to meet the milestones. The following table is proposed to be included in the UMTS Work Programme (UMTS 30.00 V.new) to show Work Plan for each 3GPP deliverable.

Identity and type	Title	Rapporteur	Date for approval	Dependency	Features under study (Sections)	Editor	Current status (Date to become stable)
23.01 Spec.	General UMTS Architecture						
23.10 Spec.	Access Stratum						

As for the Work Plan for WG2, the following are identified at the second meeting:

- TS23.10   Check the alignment with TSG RAN WG2 and WG3 before April.

- TR23.20   Continue key issue work (new key issues might be identified). (first draft – mid 1999, final draft October approval Release 1999)

- TS23.30   Continue work (deadline April); joint session with TSG RAN WG2 and WG3 is proposed to be held in March

                 Trans-coder issue to be solved at February Workshop.

- Continue work on existing Work Items from SMG12 as well as new Work Items.

- QoS Ad hoc and QoS TR

- ATM TR

- IP in IP tunneling in GPRS backborne for UMTS, phase 1 including the adopted Work Items from SMG4

This WG2 Work Plan should be further broken down to fill the above proposed table as work progresses.

6.   Mechanism for technical coordination across TSGs and WGs

The following mechanism for coordination was agreed to be proposed to the TSG-SA:

(1) Develop and maintain a UMTS 30.00 (UMTS Work Programme) like document for the following purposes:

-    List up all the Work Items relative to the 3G (or UMTS) systems. This enables TSG-SA to monitor progress on Work Items tackled by other TSG as well.
-    Show relationship (or link) between Work Items.
-    Show TSs and TRs relevant to each Work Item and overall work plan for these documents.
 (Note) This document will be defined subject to the agreement by other TSGs/WGs.

(2) Use 22.00, "UMTS phase 1 services" and 23.20, "GSM to UMTS evolution" for overall technical coordination across TSGs. For this purpose Sections of 23.20 should be reorganized to clearly distinguish stable part from non-stable part. This reorganization will be done under SMG12 leadership before SMG plenary scheduled in second week February 1999.

7. Proposal of the project support

It was agreed to propose Attachment 1 to the TSG-SA.

8. Schedule of the future WG2 meetings

8.1 WG2 meeting dates during year 1999

It was agreed that WG2 meetings should be held being co-located with SMG12 as much as possible since there are issues of common interest between UMTS and GSM/GPRS. The following meeting dates were agreed upon.

WG2 meetings	Location	Dates
WG2-#1 (Confirmed)	Walnut Creek, CA	20 – 21 January, 1999
WG2-#2 (Confirmed)	Stockholm	4 – 5 February, 1999
TSG-#2	Miami~~Dallas~~	2~~1~~ – 4~~5~~ March, 1999
WG2-#3	Europe	15 – 19 March, 1999
WG2-#4	Europe	19 – 23 April, 1999
WG2-#5~~4~~	Japan	10 – 14 ~~17 – 21~~ May, 1999
TSG-#3	(in parallel with SMG plenary)	21 – 25 June, 1999
WG2-#6~~5~~	U. S. A.	26 - 30~~12 – 16~~ July, 1999
WG2-#7~~6~~ (This may be cancelled later)	Europe	23 – 27 August, 1999
WG2-#8~~7~~	Europe	25 – 29 October, 1999
WG2-#9~~8~~	Asia	13 – 17 December, 1999

8.2 Agenda for the third WG2 meeting

(to be provided)

9. Election of Chairman and Vice Chairman for TSG-SA WG2 (ARCHITECTURE)

The meeting identified two nominations for Chairman at the beginning of the election procedures that was opened by the Convenor. Chairman and Vice Chairman were selected by the meeting as follows by consensus not by election, with the declaration by Mr. Yukio Hiramatsu of withdrawal from the Chairmanship.

Chairman of WG2   Mr. Teuvo Jarvela, Nokia

Vice Chairman of WG2   Mr. Yukio Hiramatsu, NTT

Attachment 1

Source: TSG SA WG2 Architecture Aspects

Title: **Project Team Support for WG's of 3GPP TSG's**

Document for: Information to 3GPP PCG, 3GPP TSGs, ETSI Board

1. At the beginning of December, 1998 3GPP was started with the very successful inaugural meetings of the Technical Specification Groups. During these individual inaugural TSG meetings, an appropriate sub-structure was created which will allow to move UMTS work so far under ETSI SMG STC's to the respective TSG Working Group. WG Convenors were appointed.
2. TSG SA WG2 recognizes that the contributions of all the participants during this first series of meetings were driven by the spirit to exercise this transfer of UMTS without delay in the specification progress and also to avoid duplication of activities.
3. Working Groups established under TSG's reflect very much the structure of SMG STC's or Working Parties dealing up to now with UMTS. This is a good precondition for smooth transition of work and for future co-operation in areas where joint activities are anticipated, e.g. GSM<->3rd Generation Hand-over, Service interworking (VHE) etc.
4. Currently STF support for SMG activities also covers both GSM and UMTS. Respective expertise has been developed over the time. For the sake of smooth transition of work to 3GPP it seems to be only reasonable to make use of expertise and labor already established for UMTS under ETSI SMG. The ETSI GA at their recent Assembly has allocated a budget line for support of 3GPP. The ETSI Director General Mr. Rosenbrock has announced himself ETSI's commitment to cater for 3GPP support for the first year at least. It is expected that other 3GPP partners will contribute via funding or labor over the time. So funding does not seem to be a problem.
5. TSG SA WG2 holds that Working Group support should be established without unnecessary delay. As proven over the years in ETSI SMG, this support should be provided with similar arrangements as in ETSI SMG: Project team members are appointed on terms of technical and managerial expertise. Typically they are seconded from member organizations. Contract terms reflect the limited period of the project.

Action: TSG SA WG2 endorses this reasoning on Working Group support and requests that appropriate actions are taken to ensure that certain specialist task force (STF) resources until now available for UMTS work under ETSI SMG are transferred to respective Working Groups under 3GPP TSG's.