



## **3<sup>rd</sup> Generation Partnership Project**

# **SA PLENARY #3**

## **Report from S1 to SA#3**

26-28 April 1999  
Yokohama, Japan

TSG\_SA\_WG1 Chairman: Alan Cox  
Secretary: Roger Tarazi

## DRAFT REPORT

**TITLE:** STATUS REPORT OF SA\_WG1 (Services) Meeting #3 (99-3)  
**SOURCE:** R.Tarazi, SECRETARY, A K Cox, Chairman  
**Document for:** Information and Decision  
**Agenda Item:** 5.1

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## STATUS REPORT

### 1. General Overview of Progress

The meeting was held in Edinburgh, Scotland, organised by Lucent Technologies and kindly hosted by them, together with One2One, Orange and Vodafone.

During this meeting, as mandated by 3GPP, elections were held, resulting in the election of Alan Cox, Vodafone, as Chairman of S1 and as Vice-Chairmen David Cooper, T-Modus and Tommi Kokkola, Nokia. There were no other candidates from any of the regions despite strong invitations.

This meeting focused mostly on the merging of the different regions' requirements and further development of Release 99, resulting in:

- 13 Change Requests affecting 4 Specs (22.00, 22.01, 22.05 and 22.15)
- 9 Liaison Statement covering the following topics (LCS, Multicall, Transcoder MM, HandOver, Fax Data, QoS, VHE, Security, Cross Compatibility)
- 2 Agreed Work Items on MultiCall and IS41
- 2 Specifications to be presented for Information:  
TS 22.21 on VHE as Version 1.1.0 and  
TS 22.131 on Multicall as Version 1.0.0
- 1 Specification to be presented for Approval:  
TS 22.29 on HandOver as Version 2.0.2

S1 Meeting launched already 7 special interest e-mail exploder lists:

- Multicall, Handover, Charging, Multimedia, QoS, VHE, SMS

Cyber-meetings proved to be quite efficient noting particularly, the record time the handover specification was developed (one week) and provided with clear guidelines stating the objectives of the meeting, the starting date of the meeting, the dialoguing procedure for contributions from various delegates and the cut-off-date of the meeting, producing a draft stage 1 specification that was then sent for a 2-week approval cycle on S1 for Agreement. Thanks goes to David Cooper who chaired this cyber-meeting and to Tommi Kokkola who contributed to defining the Working Procedures for e-mail drafting and agreement procedures.

S1 Meeting had 3 adhoc meetings on MultiCall, QoS and VHE, the latter being held concurrently with SA#3.

S1 QoS adhoc has drafted a CR on QoS introducing a major upgrade to TS 22.05 Chapter 5. It is being circulated and debated on the S1 list (See CR in Tdoc 107 for Information). It is expected to be agreed at the S1 meeting in May 99 and to be approved at SA#4.

—Please note that there are two CRs (2200A012 in S1-99148 and 2200A013 in S1-99185) addressing security issues in UMTS Phase 1 that have been conditionally approved by S1, however, given that they are not acceptable in their present form to S3, they are withdrawn for further elaboration and agreement at our next S1 meeting in May 99.

### 2. Deliverables List and Schedule

**Annex B** contains an updated list of planned deliverables and timescales and is submitted for information. Note that S1 has decided not to maintain some of the earlier reports since more recent specifications, now, cover these topics.

### 3. Work Items

Two Work Items are presented for Approval. One on MultiCall and one on IS-41 that has been further elaborated.

Specification	Doc	WORK ITEMS	Rapporteur
22.135 V0.x.y	189	MultiCall	Tommi Kokkola, Nokia
IS 41	212	IS 41 to UMTS Interworking	Samsung

**DECISION TSG SA#3 - n1**

**TSG SA is invited to approve these Work Items and Deliverables. See TSG\_SA Tdoc 099.**

**4. Baseline Documents - deliverables**

One Technical Specification, TS 22.29V2.0.2 on Handover is presented for Approval. It is presented along with an LS, for information, reflecting the need for inter-operator handover between UMTS and GSM in S1 Tdoc 207.

**DECISION TSG SA#3 - n2**

**TSG SA is invited to approve TS 22.29 specifications placing it under change control. See TSG\_SA Tdoc 100**

Two Technical Specifications are presented for Information:

TS 22.[135] V1.0.0 on MultiCall - **TSG\_SA Tdoc 101**

TS 22.21 V1.1.0 on VHE integrating VHE and OSA (Open Service Architecture) - **TSG\_SA Tdoc 102**

**5. Change Requests - deliverables for approval**

There are 4 sets of CRs affecting: (~~INCLUDING~~ *Including* **STRATEGIC** CRs, as indicated below)

- UMTS Phase 1 Specifications in TS 22.00V3.1.1
- UMTS Service Description TS 22.01V3.4.1
- UMTS Service Capabilities in TS 22.05
- UMTS Service Aspects, Charging and Billing in TS 22.15

Each set contains one or more Change Request(s).

**DECISION TSG SA#2 - n3**

**The following change requests have been agreed by S1 and are submitted for approval in Tdoc TSG\_SA Tdocs 103, 104, 105 and 106.**

Spec	CR#	S1_Doc	Type	Topic	Comments
<b>TS 22.00 CRs in Tdoc 103</b>					
22.00	A003r2	190	CR	Emergency	Adding a sub-section on Emergency Call handling and addressing the possibility of having more than one Emergency number.
22.00	A005r2	193	CR	Optimization	Addition of new phrase for optimisation of inter-network signalling: UMTS Phase 1 network shall provide an effective solution of inter-network traffic and signalling in case of global roaming.
22.00	A008	196	CR	Fax Data	<b>STRATEGIC</b> Added support of real time non-transparent fax service as an option. Alternatively, a store and forward service can be envisaged for subsequent delivery to FAX Machine in PSTN/ISDN.
22.00	A009	222	CR	Number of Bearer Services in Support of Multicall	Introducing the support of multiple parallel bearers (CS, PS) in support of Multicall.
22.00	A010	221	CR	Access arrangements	Mobiles are to operate in different radio access environments, including those provided by public and private radio access networks connected to public and private networks using paired and unpaired radio bands in licensed and licence exempt spectrum.
22.00	A014	195	CR	Traffic O&M	UMTS Phase 1 core network to support facilities for monitoring and measurement of traffic flows and characteristics within the network eg for congestion control.

**TS 22.01 CRs in Tdoc 104**

22.01	A016	202	CR	MMI	Control of supplementary services (GSM 02.04), may use MMI procedures specified in GSM 02.30 and existing GSM MMI related MS features (GSM 02.07) may also be used.
22.01	A017	219	CR	Emergency	Equivalent to CR to 22.00 in Tdoc 190: Adding a sub-section on Emergency Call handling and addressing the possibility of having more than one Emergency number.

**TS 22.05 CRs in Tdoc 105**

22.05	A007	211	CR	High Quality Speech	Speech (7kHz) communications via bi-directional and symmetric channels between UMTS users or with fixed wireline or GSM users with equivalent or better quality than the audio quality of G.722 shall be supported in Phase 1, but not in Release 99.
22.05	A008	209	CR	Support GSM BSs	UMTS shall support GSM General Bearer Services (GBS) and interworking scenarios as specified in 02.02.

**TS 22.15 CR in Tdoc 106**

22.15	A001r1	234	CR	Charging	Clarification of the Charging Service
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**6. Critical items for TSG SA Decision**

None identified.

**7. Outlook for future meetings**

As stated in our preceding report at SA#2, the remaining work for Release 99 will be ready for information (at version 1) by TSG SA#3 and for approval by SA#4. This tight timetable is essential to ensure clear inputs to all other groups of 3GPP in time for Release 99. Thereafter, S1 will start to examine requirements for Release 2000.

**8. Planned Meetings of WG1**

S1#3	UK	May 10-12, 1999
S1#4	Canada	July 5-9, 1999 (Joint Meeting with SMG1)
S1#5	Host needed	November 29 - Dec 3, 1999 (Joint Meeting with SMG1)

**Annex A - LIST OF CONTRIBUTIONS TO SA#3**

SA#3 Tdoc	S1 Tdoc	TITLE	ACTIONS
SP-99098		Status Report of S1#2 to SA#3	INFORMATION & <b>DECISION</b>
SP-99099	189	WI on MultiCall	INFORMATION
	212	WI on IS 41 to UMTS Interworking	INFORMATION
SP-99100	208	Handover Requirements between UMTS and GSM or other Radio Systems Version 2.0.2	<b>APPROVAL</b>
	207	LS on Handover	INFORMATION
SP-99101	230	MultiCall V1.0.0	INFORMATION
SP-99102	224	VHE (with OSA in Annex) V1.1.0	INFORMATION
SP-99103	See Tdoc #s in Section 3	CRs on 22.00	<b>APPROVAL</b>
SP-99104	See Tdoc #s in Section 3	CRs on 22.01	<b>APPROVAL</b>
SP-99105	See Tdoc #s in Section 3	CRs on 22.05	<b>APPROVAL</b>
SP-99106	See Tdoc # in Section 3	CR on 22.15	<b>APPROVAL</b>
SP-99107	240	Draft Change Request on QoS in 22.05	INFORMATION

**Annex B - SUMMARY OF S1 DELIVERABLES: Specifications and Reports**

Technical reports and specifications that are already under change control are at Version 3 or higher. For work in progress, expected approval milestones are shown in the table below:

Spec	Title	Rapporteur	Not Yet Approved	Approval status:	Next	Comment
TS22.00 V3.1.1	UMTS PHASE 1 CAPABILITIES	David Verrier, France Telecom		V3.0.0 SMG#28		(A number of CRs are being presented for approval at TSG_SA#3 in Japan)
TS22.01 V3.4.1	UMTS SERVICE PRINCIPLES	Paul Dwyer, Vodafone		V3.4.0 SMG#28		(A number of CRs are being presented for approval at TSG_SA#3 in Japan)
TS22.05 V3.3.1	SERVICES AND SERVICE CAPABILITIES	Wayne Ashwell, British Telecom		V3.2.0 SMG#28		(A number of CRs are being presented for approval at TSG_SA#3 in Japan)
TS22.15 V3.0.1	SERVICE ASPECTS: CHARGING AND BILLING	Emanuele Montegrosso, TIM		V 3.0.0 SMG#28		(One CR is being presented for approval at TSG_SA#3 in Japan)
TS22.21	VIRTUAL HOME ENVIRONMENT	Jumoke Ogunbekun, Fujitsu	V0.6.0	V1.0.0 at TSG_SA#3	V2.0.0 at TSG SA#4	Not Updated anymore
TS22.29	DRAFT HANDOVER REQUIREMENTS BETWEEN UMTS AND GSM OR OTHER RADIO SYSTEMS	David Cooper, TELECOM MODUS	V1,0,0 SMG#28		V2.0.0 at TSG SA#3	
TS22.[135]	DRAFT MULTICALL	Tommi Kokkola, Nokia			V1.0.0 at SA#3	
TR22.60	MOBILE MULTIMEDIA SERVICES INCLUDING MOBILE INTRANET AND INTERNET SERVICES	Thomas Ahnberg, TELIA		V3.0.0 SMG#25		Proposed to keep that specification.
TR22.71	AUTOMATIC ESTABLISHMENT OF ROAMING RELATIONS	Emanuele Montegrosso, TIM		V3.0.1 SMG#27		Noted - To be maintained.
TR22.75	ADVANCED ADDRESSING	Stephan Kleier, MMO		V3.0.0 SMG#27		

Technical Reports - Non-Active status (Some are not to be maintained anymore)

TR22.07	UMTS TERMINAL AND SMART CARD CONCEPTS	Mika Tolvanen, Nokia		V.3.0.0 SMG#25		Not Updated anymore, Kept
TR22.24	CHARGING AND ACCOUNTING MECHANISM	Emanuele Montegrosso, TIM		V3.0.0 SMG#25		Not Updated anymore

<b>TR22.25</b>	<b>QUALITY OF SERVICE AND NETWORK PERFORMANCE</b> Use the information from 22.25 into 22.05 bringing in QoS requirements from other regions was proposed...	Olle Eriksson coordinates QoS		V3.1.0 SMG#25		
<b>TR22.70</b>	<b>VIRTUAL HOME ENVIRONMENT</b>	Jumoke Ogunbekun, Fujitsu		V3.0.0 SMG#25		Not updated anymore
<b>TR22.72</b>	<b>MULTIMEDIA</b>	Ralf Fischer, Bosch	V0.0.0	V1.0.0 at TSG SA#3	V1.0.0 at TSG SA#4	

### ANNEX C - UMTS Work Items

Work item	WID	Rapporteur	Expected output	Dead-line	Status	Notes
Advanced Addressing	S1-136	Stephan Kleier, MMO	Report 22.75	R99	On-going	
Charging and Accounting	S1-132	Emanuele Montegrosso, TIM	Specification 22.15	05/99	On-going	
GSM to UMTS Evolution	S1-127	Tommi Kokkola, Nokia	Review and update of GSM 02- series	R99	On-going	
Handover GSM<->UMTS	S1-135	David Cooper, T-Modus	Specification 22.29	05/99	On-going	
Quality of Service	S1-134	Olle Eriksson / Ericsson	CRs (ffs)	R99	On-going	<i>Joint WI with S2</i>
UMTS Phase 1	S1-129	David Verrier, FT	Specification 22.00	05/99	On-going	
UMTS Services	S1-130	Paul Dwyer, Vodafone	Specification 22.01	05/99	On-going	
UMTS Services and Service capabilities	S1-131	Wayne Ashwell, BT	Specification 22.05	05/99	On-going	
Virtual Home Environment	S1-133	Jumoke Ogunbekun, Fujitsu	Specification 22.21	R99	On-going	

IS-41 to UMTS Interworking	S1-212	Samsung	Study	R99	On-going	Agreed at S1 <b>Submitted for approval at SA#3</b>
Multicall	S1-189	Tommi Kokkola, Nokia	Stage 1 specification, Stage 2 (ffs), CR to existing specifications	R99	On-going	Agreed at S1 <b>Submitted for approval at SA#3</b>