3GPP TSG SA WG3 Security — S3#33 **S3-040205**
10 - 14 May 2004
Beijing, China

Technical Specification Group Services and System Aspects
Meeting #23, Phoenix, USA, 15 - 18 March 2004

Draft Report

Source: **Secretary TSG SA**

Title: **Draft Report of TSG SA meeting #23**

Document for: **Information to SA WG3**

Status: **Draft - version 0.0.5 (with revision marks from version 0.0.4)**

Contents

Draft Report

1 Opening of the meeting

The TSG SA Chairman, Mr. Niels Peter Skov Andersen opened the meeting. The Vice Chairman, Mr. Gary Jones, welcomed delegates to Phoenix on behalf of the hosts, *North American Friends of 3GPP*, and provided information about the facilities available around the meeting location and a social event organised for the evening of 15 March 2004.

IPR Declaration:

The chairman made the following call for IPRs, and asked ETSI members to check the latest version of ETSI's policy available on the web server:

> The attention of the members of this Technical Specification Group is drawn to the fact **that 3GPP Individual Members have the obligation** under the IPR Policies of their respective Organizational Partners to **inform their respective** Organizational Partners **of Essential IPRs they become aware of**.
>
> The members take note that they are hereby invited:
>
> - to investigate in their company whether their company does own IPRs which are, or are likely to become Essential in respect of the work of the Technical Specification Group.
>
> - to notify the Director-General, or the Chairman of their **respective** Organizational Partners, of all potential IPRs that their company may own, by means of the IPR Statement and the Licensing declaration forms (e.g. see the ETSI IPR forms http://webapp.etsi.org/Ipr/).

2 Approval of the Agenda

TD SP-040001 Draft agenda for TSG SA meeting #23. The TSG SA Chairman introduced the agenda which was reviewed and approved.

A request was made to ensure that all WG inputs should be made available as soon as possible before the meeting in order for delegates to have time to review the documents submitted for approval.

3 Approval of the meeting report of TSG-SA Meeting # 22

TD SP-040002 Draft Report for TSG SA meeting #22. The draft report, version 0.0.8 contained revision marks showing changes made from the original draft sent for comment by the TSG SA Secretary. The report was approved and will be updated to remove revision marks and placed on the 3GPP FTP server as version 1.0.0.

4 Items for immediate consideration

TD SP-040014 On 3GPP Rel-6 Work Prioritisation. This was provided by Ericsson, Nokia and Siemens. The contribution included a summary of discussions held over e-mail and listed the Features which were considered essential for Rel-6. The contributors proposed to take this list as a basis for the identification of essential and desired features and building blocks for Rel-6. It was commented that this was a good starting point for further discussions on the content of Rel-6 and that it should be considered in the light of the review of the Work Plan status provided in this meeting by MCC. Delegates were asked to review and discuss this contribution off-line and it will be re-visited in relation to the Work Plan status under agenda item 8.8. Siemens stated that the contribution should be understood as an encouragement to companies to progress the Work Items that they would need in Rel-6 and are close to completion. Siemens wished that there would be a smaller time difference between future Releases than currently seen between Rel-5 and Rel-6. The TSG SA Chairman reminded delegates that any prioritisation agreed by TSG SA should act as guidance to delegates and Member Companies to focus contribution to the WG meetings, which cannot prioritise work without specific input on those topics.

It was generally agreed that some priority should be set by TSG SA for Rel-6 Features and the list of the priorities should be discussed off-line in order to reach agreement. This was further handled in an ad-hoc discussion group and the document noted.

5 Reports from TSG SA ad-hoc meetings, workshops and Electronic Meetings

TD SP-040052 Cover Note on Report of Ad-Hoc Email Discussion on Release Process. This was introduced by Nortel Networks and introduces the results of the e-mail discussions provided in TD SP-040053.

TD SP-040053 Report of Ad-Hoc Email Discussion on Release Process. This was introduced by Nortel Networks. The Ad-hoc discussions concluded that:

4.1 Early Implementation of Features
Features may be implemented when standardisation of that feature is completed whether or not the corresponding release is approved.

4.2 Multiple Release Streams
It was proposed that the current system-wide release structure remains.

4.3 Six Monthly Releases
The MCC does not have the resources or industry for that matter, to deal with releases on a fixed 6 monthly basis, e.g. the number of mirror CRs, new versions of the specs, release stability, etc. We should not go down the road of having releases determined by calendar date, we have at present a release date based on a reasonable content, which as it turns out, has been on an approximately 12 monthly basis, but the release date is still based on content rather than the timescale.

It was agreed that the conclusion 4.1 should be investigated and it should be determined how such a mechanism can be introduced and managed efficiently.

It was agreed that the e-mail discussions should continue until the next TSG SA meeting in order to discuss the administrative "visibility of completed Features" (i.e. clear documentation) and to discuss whether there is any means to determine the suitability to implement a Feature independent of other Features in its' Release. Mr. Iain Sharp agreed to continue the e-mail discussions and Members were asked to actively contribute to this discussion.

6 Letters / Reports from other groups

6.1 TSG-T, TSG-CN, TSG-RAN, TSG-GERAN

TD SP-040012 LS from TSG GERAN: On the Preferred Roaming List for 3GPP2/3GPP Multi-mode Terminal. This was introduced by the TSG GERAN Chairman and presented the conclusions of discussions in GERAN on preferred roaming list issues. TSG GERAN requested that TSG SA create an answer to 3GPP2 TSG-C based on the comments provided by TSG GERAN. There was some discussion on the need for a LS to be sent by TSG SA to 3GPP2 as other WGs were also addressed in this issue. It was noted that 3GPP2 will complete their specification work soon on this and it would be better to inform them of the conclusions from TSG GERAN at an early stage. It was also suggested that the scenarios for this interworking should also be investigated and in order to fully understand the issues involved. A response LS was drafted during off-line discussions and was provided in TD SP-040212 which was superseded by the proposal in TD SP-040226.

TD SP-040224 Preferred Roaming List for 3GPP2/3GPP Multi-mode Terminal. This was introduced by the TSG SA Chairman:

> *TSG SA requests that 3GPP2 TSG-C continues to be aware of 3GPP's interest in the overlay system selection function specification work and provide answer to issues raised in this LS and provide more information so that TSG SA can better understand the work which has to be performed.*
> *3GPP TSG SA ask 3GPP2 TSG-C to provide answers to the issues raised in this LS and provide more information about the overlay functionality. In addition, 3GPP TSG SA would like receive more background information about the scenarios and service requirements.*

The proposed Liaison was discussed and updated in TD SP-040226 which was approved.

NOTE: This superseded the proposed LS in TD SP-040217.

It was commented that not all the questions asked by 3GPP2 are answered in this LS.

6.2 Partners and their bodies

TD SP-040009 Liaison Statement (from T1A1) on Mapping between ITU-T and 3GPP QoS Classes and Traffic Descriptors. This was related to the reply LS in TD SP-040024 "*Reply LS (from SA WG2) on Mapping between ITU-T and 3GPP QoS Classes and Traffic Descriptors*", which were considered together. This was introduced by Nokia and asked ITU-T to take into account SA WG2's views regarding the development of this Interworking Function specification.

It was noted that liaison to ITU-T should be endorsed via the PCG and e-mail reflector as there is no official liaison from 3GPP WGs and the ITU-T. The principles of the response were agreed and these two documents were then noted.

TD SP-040150 LS from ETSI TC-TISPAN: Request for close cooperation on future NGN Standardisation. This was related to the reply LS in TD SP-040182 "*LS (from TSG CN) on Request for close cooperation on future NGN Standardisation*", which were considered together. This was introduced by the TSG CN Chairman and asked TSG SA to review the attached liaison and send it to TISPAN with the following action:

> "3GPP requests the 3GPP TSG CN or TSG SA management to organise a workshop in conjunction with ETSI TISPAN."

It was clarified that this was intended as a rapid way to get the work started by having a common understanding of the working between different organisations and to help ETSI TISPAN to proceed and make the best use of the available specifications. It was considered that if other SDOs have groups which are also involved in this work then they should also send relevant delegates to the Workshop.

It was agreed that a Workshop should be held and the SA WG2 Chairman agreed to arrange the Workshop. The response LS, based on TD SP-040182, was provided in TD SP-040192 which was reviewed. "NGN" should be updated to "Next Generation Networks (NGN)" It was agreed that the PCG, SA WG1, SA WG3, CN WG1, CN WG3 and CN WG4 should be copied this. The 3rd paragraph was modified to remove the second sentence and to add that 3GPP are willing to organise a Workshop and updated in TD SP-040218 which was approved.

TD SP-040055 CEPT/ECC consultation on use of short codes. This was sent by ETSI MSG and was introduced by the TSG RAN Chairman. Recently CEPT ECC WG on Numbering Naming and Addressing has issued a questionnaire on the need for national co-ordination for the allocation of short codes for SMS, MMS and USSD. To ensure a full consideration by all involved parties in Europe it is felt useful that such a document be considered by the relevant working groups in TSG SA and TSG T i.e. SA WG1 and T WG2 respectively. After some discussion **it was agreed to forward this to SA WG1 and T WG2.** Members were asked to consider this issue and make contribution to the relevant groups.

6.3 Others

TD SP-040010 LS to 3GPP and 3GPP2 on MMS decisions from OMA TP. This was noted.

TD SP-040013 Reply LS (from ITU-T SG16) to SG 11 on Signalling Requirements for IP-QoS. This was related to TD SP-040009 and TD SP-040024 and was briefly introduced by the TSG SA Chairman and noted. Delegates were asked to consider the issues and contribute to relevant WGs (e.g. SA WG2).

TD SP-040015 Liaison (from OMA DL+DRM) to 3GPP SA4 and SA3 on DRM for PSS and MBMS streams. It was noted that OMA would like specifications that they are referencing to be stabilised as soon as possible. SA WG4 had dealt with this at their previous meeting and provided the most recent draft to OMA. It was clarified that the relevant specifications in SA WG4 were progressing and expected to be provided at the next TSG SA meeting. It was further noted that there is communication between the WGs and OMA on this subject. and the LS was noted.

TD SP-040016 Reply LS (from OMA POC WG) to 3GPP on principles for overlapping issues with OMA regarding PoC. This was related to the reply LS in TD SP-040025 which was introduced by RIM. It was noted that the timescales for CN WGs work could only be determined if the actual impacts of the issues were clearly defined. The LS was then noted.

TD SP-040171 LS (from GSMA/IREG) on 3gppnetwork.org domain name management. This was introduced by the TSG CN Chairman. It was noted that this had been handled by TSG CN and was noted. The TSG CN Chairman agreed to inform the 3GPP PCG of this.

TD SP-040172 LS (from GSMA/IREG) on 2G/3G subscriber distinction and roaming restriction. This was introduced by Orange. GSMA/IREG asked TSG SA the following:

- *To ensure that the new "Administrative restriction feature" will be mandatory for vendors;*
- *The specifications should be made in the way that Operators who do not want to make 2G/3G distinction do not have to change their actual implementation, i.e the implementation of the distinction feature should be backwards compatible to the current situation with no distinction;*
- *To confirm that that the possibility "for a VPLMN to specify different roaming authorizations for his 2G and 3G coverage, even in case of combined 2G/3G network elements" requirement will also be taken into account in 3GPP specifications.*

The TSG CN Chairman reported that assuming this is about rejection using cause value 15, then there should be no problems with this from the CN viewpoint. The TSG RAN Chairman requested that RAN WGs be given time to study the impacts of this on the RAN and the GERAN. The assumptions of TSG CN that no new cause values need to be added and that their solution using location routeing fulfils the GSMA requirements were taken as a working assumption and investigation into the correctness of this should be done. A response LS asking for clarification to the GSMA/IREG was provided in TD SP-040219 which was reviewed and approved.

TD SP-040177 LS (from GSMA/IREG) on IPv4/v6 IMS roaming and interworking. This was introduced by Orange and IREG asked SA WG2 to standardize in priority a solution to ensure that IPv6 IMS will inter-work with IPv4 IMS, transparently for the end user. It was commented that the definition of the IPv4 terminal and the use case scenarios should be defined in order to determine whether this type of interworking is really needed in the specifications. It was commented that there will be early IMS implementations which use IPv4 as a basis. It was recognised that also a smooth migration path for mobiles to support IPv4 will be necessary. After a long debate it was agreed that the issues should be identified and the necessary specifications developed as soon as possible. It was considered necessary that the necessary CRs are presented to the next TSG SA meeting for approval.

Based on the discussions on IPv4 in previous meetings and the LS it was clear to TSG SA that there is a need for IPv4 support in IMS as there will be a need for a smooth migration path from those implementations to IPv6 based IMS. SA WG2 were asked to continue their study on IPv4/IPv4 and IPv4/IPv6 interworking scenarios. ~~3GPP~~ SA WG2 need to urgently specify the minimum requirements for the MSs which support IPv4 IMS in order to minimise the number of different implementations to support in the future. SA WG2 should clarify what are the minimum requirements for an IMS IPv4 supporting mobile to provide compatibility with an IMS IPv6 implementation, based on the existing assumption made by SA WG2 (in the TR). Based on this work the necessary specifications need to be developed to support IPv4 IMS with a migration path to IPv6. TSG SA assumed for the moment that this would be part of Release 6 and would revisit this based on progress and technical issues which may arise. TSG SA asked SA WG2 to inform TSG SA about the progress at forthcoming TSG SA meetings.

TD SP-040187 LS (from GSMA) to 3GPP SA2 on Operator Requirements for WLAN Stage 2 Scenario 3. This was introduced by T-Mobile and provided the GSMA document "Operator Requirements for WLAN Scenario 3" for review by TSG SA and SA WG2 and requested any comments. It was considered that the requirements were in line with SA WG1 and SA WG2 requirements and the prioritisation would need to be checked in SA WG1 and SA WG2. The LS was then noted.

TD SP-040017 Reply (from RAN WG2) to: LS on Use of UTRAN for I-WLAN. This was introduced by the RAN WG2 Chairman and asked SA WG1 for responses on some outstanding issues on I-WLAN. The SA WG1 Chairman pointed out that the scope of this was larger than the scope of SA WG1 and advise was requested also from TSG SA. It was considered that the issue should be carefully studied in order to study the scenarios and ensure that the I-WLAN impacts are fully understood and that suitable specification work can be done. It was not considered necessary to set up a workshop top clarify this and SA WG1 were asked to clearly define the problem which needs to be solved and to send this to relevant WGs. **SA WG1 were asked to initiate an e-mail discussion in order to clarify the requirements as soon as possible. The SA WG1 Chairman was asked to monitor whether agreement can or cannot be reached in a reasonable time and to report any problems with this so that appropriate further action can be taken.**

7 Reports from TSG-SA Working Groups

7.1 TSG-SA WG1

7.1.1 Report from TSG-SA WG1 and review of progress

TD SP-040081 Presentation of SA1 to SA #23. The status report of activities in SA WG1 was introduced by the SA WG1 Chairman, Mr. M. Zarri.

TD SP-040082 Status report of SA1 to SA #23. The detailed status report was provided for additional information and was noted.

Questions and comments:

Slide 23: It was clarified that the European Commission on projects SAILOR and FUTURE are an independent Satellite UMTS system which may have an interaction with terrestrial UMTS.

Slide 23: The relationship between the SA WG1 and TSG SA OMA Liaison officer was questioned. The SA WG1 Chairman explained that this Liaison Officer maintained an SA WG1-specific OMA dependencies table which could be input to the main OMA dependencies tables. The TSG SA OMA Liaison Officer (I. Sharp) welcomed this initiative and asked other WGs to send information in order to maintain the overall 3GPP tables.

Slide 24: It was commented that the Private Addressing Schemes for MMS item should not be closed as reported as there were still outstanding issues on this. The SA WG1 Chairman concurred with this view.

The SA WG1 Chairman was thanked for his report, which was then noted.

7.1.2 Questions for advice from TSG-SA WG1

SP-040004 Reply (from SA WG1)Reply to LS to 3GPP SA Concerning the Handling of Emergency Calls on 3G Networks. This was introduced by the SA WG1 Secretary and was provided for information. The LS was noted.

SP-040005 Response (from SA WG1) to LS on EC Requirements on Emergency Telecommunications. This was introduced by the SA WG1 Secretary and was provided for information. The LS was noted.

SP-040006 LS (from SA WG1) on Video Telephony New Requirements. This was introduced by the SA WG1 Secretary and was provided for information. The LS was noted.

SP-040007 LS (from SA WG1) on “IMS messaging, Group management and Presence work overlap between 3GPP and OMA. This was introduced by the SA WG1 Secretary and was provided for information. The LS was noted.

7.1.3 Approval of contributions from TSG-SA WG1

CRs:

SP-040083 CRs to 22.101 on Correction of emergency call set-up MMI requirements (R99, Rel-4, Rel-5). It was explained that the emergency call functionality was considered an essential change for Release 1999, onwards as misunderstanding could lead to regulatory problems. **It was therefore agreed that these CRs to frozen Releases should be accepted as an exceptional justified case.** These CRs were then approved.

SP-040084 CRs to 22.101 on Alignment to TS 31.102 on FDN/BDN unsupported terminal procedure (R99, Rel-4, Rel-5, Rel-6). The real need for such clarifications in frozen Releases was questioned. It was also commented that misunderstanding in any release that could cause mis-implementations should always be considered as essential. It was clarified that these CRs were correcting a misalignment between the Stage 1 and Stage 3. **It was agreed that these CRs to frozen Releases should be accepted as an exceptional justified case.** These CRs were then approved.

SP-040085 CRs to 22.071 on Routing of Emergency Calls based on Geographic Coordinates (R99, Rel-4, Rel-5). It was clarified that these CRs were a result of a request made at TSG SA# 22. The TSG CN Chairmen reported that corresponding Stage 3 CRs were expected for approval at TSG CN #24. These CRs were then approved.

SP-040086 CRs to 22.078 on MoveLeg precondition alignment (Rel-5, Rel-6). These CRs were approved.

SP-040087 CR to 21.905 on Acronyms for the Flexible Layer One (Rel-6). This CR was approved.

SP-040088 CR to 22.011 with Various CRs on network selection (Rel-6). It was questioned whether there was really a requirement for the background scan not to switch between different RATs. The TSG CN Chairman reported that a document pertaining to this was available in TD SP-040183 and this may need to be studied by SA WG1. This CR was approved with the understanding that SA WG1 may need to further enhance the text when they have studied the issues given in TD SP-040183.

SP-040090 CR to 22.071 on Inclusion of U-TDOA positioning method (rel-6). This CR was approved.

SP-040091 CR to 22.101 on Improvements to CS Video and Voice Service procedures (Rel-6). **3** objected to the part c) of the reason for change to this CR (service change) and had objected to this CR at SA WG1. The SA WG1 Chairman reported that the CR had, however, been approved at SA WG1 and **3** were requested to provide contribution on their concerns over the service change requirements to SA WG1. This CR was approved and **3** were asked to contribute their concerns over service change to SA WG1.

SP-040092 CR to 22.127 on High Availability requirement for OSA (Rel-6). A proposal to revise the cover page was provided by Ericsson in SP-040199 which was reviewed with the introductory document in TD SP-040174.

> TD SP-040174 OSA High Availability. This was introduced by Lucent Technologies on behalf of Alcatel and Lucent Technologies and discussed the reasons for the request to change the cover sheet of the CR as provided in TD SP-040199. This was noted.
>
> TD SP-040199 Proposed revised CR to 22.127 on High Availability requirement for OSA (Rel-6). This CR was approved.

SP-040093 CRs to 22.140 for MMS (Rel-6). O2 objected to CR041 because it should clarify that MMS client is a UICC application. CR041 was revised to include this clarification and provided in TD SP-040203 which was reviewed and approved. The definition of the private addressing schemes in MMS proposed in CR043 was considered to be in need of further development. CR043 was therefore sent back to SA WG1 for elaboration of the definition. It was clarified that work on the issue itself should not be delayed by this decision and all WGs were asked to continue their work CR042 was approved.

SP-040094 CR to 22.146 on User requirements for notification of multicast sessions (Rel-6). This CR was approved.

SP-040095 CR to 22.240 on GUP UE Requirements (Rel-6). This CR was approved.

SP-040096 CRs to 22.246 on MBMS (Rel-6). There was an objection to adding new requirements and the clarity of those requirements provided in these CRs. An off-line discussion was held to clarify and improve the requirements of these CRs and the revised CRs were provided in TD SP-040204. CR001 and CR004 were revised and reviewed and approved. All CRs in TD SP-040204 were then approved.

SP-040097 CR to 22.030 on MMI Service Code for video and telephony (Rel-7). This CR was approved.

SP-040098 CR to 22.078 on CSE change basic service (Rel-7). This CR was approved.

SP-040101 CRs to various specification to remove WLAN requirements. These CRs were provided as a consequence of the production of TS 22.234 containing all the WLAN Interworking requirements (see TD SP-040100). These CRs were approved.

SP-040089 CRs to 22.011 on System selection and Priority usage of UICC parameters for I-WLAN. The SA WG1 Chairman reported that CR055 is withdrawn. CR056 was approved. It was noted that if this change

should be placed in a different TS then 2 CRs would be provided to TSG SA to do this (one CR to add the change to the new TS and one to remove it from TS 22.011).

TSs and TRs:

SP-040099 TR 22.949 on Study on a Generalised Privacy Capability (Rel-6). This TR was approved and placed under TSG SA change control as version 6.0.0 (Rel-6).

SP-040100 TS 22.234 on Requirements for WLAN interworking (Rel-6). This TS was approved and placed under TSG SA change control as version 6.0.0 (Rel-6).

WIDs:

SP-040102 Update of GUP WID. This updated WI description was approved.

SP-040103 Update of Multimedia Priority Service WID. This updated WI description was approved.

SP-040104 WID on USSD message delivery and transfer to USIM. This WI description was approved.

7.2 TSG-SA WG2

7.2.1 Report from TSG-SA WG2 and review of progress

SP-040030 Report of SA2 status. The status report of activities in SA WG2 was introduced by the SA WG2 Chairman, Mr. M. Olsson.

Questions and comments:

Slide 22 BARS: It was clarified that was no conclusion in SA WG2 whether further work needs to be done and this will be discussed at the next SA WG2 meetings.

Slide 22 TS 23.125: It was clarified that SA WG2 were intending to abandon TR 22.825 if TS 22.125 is approved.

Slide 25 FS on applicability of GALILEO for LCS: It was commented that this issue needs to be finalised soon for any decision on it's use to be effectively implemented. This was still under discussion in SA WG2 and TSG RAN groups.

Slide 25 PS domain and IMS impacts: The SA WG2 Chairman clarified that the work will not make Rel-6 unless companies prioritise the work on this and little progress has been made in recent meetings.

Slide 26: OMA AD. The SA WG2 Chairman clarified that the work in SA WG2 which dependent upon the OMA AD was expected to be completed within 2 SA WG2 meetings.

Slide 31 Access Class Barring WI: The SA WG2 Chairman reported that the completion date is set for June 2004, but this is considered a little optimistic and September 2004 was considered more realistic. The inclusion of this WI in Rel-6 will depend on the freezing of Rel-6 and the impacts on the work of other WGs.

The SA WG2 Chairman was thanked for his report, which was then noted.

7.2.2 Questions for advice from TSG-SA WG2

SP-040024 Reply LS (from SA WG2) on Mapping between ITU-T and 3GPP QoS Classes and Traffic Descriptors. This was considered with the LS in TD SP-040009. It was noted that LSs to the ITU-T should go via the PCG. The LS was therefore noted.

SP-040023 Response (from SA WG2) to LS on “IMS messaging, Group management and Presence work overlap between 3GPP and OMA”. This was considered with the LS in TD SP-040025 and TD SP-040016.

SP-040025 LS Reply (from SA WG2) to OMA LS to 3GPP on principles for overlapping issues with OMA regarding PoC. This was handled with TD SP-040023 and TD SP-040016.

SP-040026 Reply LS (from SA WG2) on Technical Report on Mobility between H.323 Multimedia Systems and GPRS/IMT2000 Networks. This was introduced by the SA WG2 Chairman and asked TSG SA to take the discussed points into account when generating a consolidated reply to the LS received from ITU-T. The TSG CN Chairman reported that a contribution on TSG CN endorsed position in TD SP-040020.

TD SP-040020 LS (from CN WG1) on Technical Report on Mobility between H.323 Multimedia Systems and GPRS/IMT2000 Networks LS (from CN WG1) on Technical Report on Mobility between H.323 Multimedia Systems and GPRS/IMT2000 Networks. This was introduced by the TSG CN Chairman and contained the TSG CN endorsed position from CN WG1.

It was agreed to amalgamate the contributions from SA WG2 and TSG CN into a co-ordinated response to ITU-T which was provided in TD SP-040209 which was approved. It was noted that ITU-T ad-hoc group providing it to the ITU-T would need to add the 3GPP endorsement and remove the "DRAFT" from the title.

TD SP-040185, TD SP-040146 and TD SP-040149 were presented in turn and discussed together:

> SP-040185 Use cases for NRPCA. This was introduced by T-Mobile on behalf of Orange and T-Mobile and suggested that good motivations exist to justify the standardisation of NRPCA in Rel-6 in light of the use cases mentioned in the contribution.
>
> SP-040146 Considerations for future standardisation of new mechanisms within 3GPP. This was introduced by NTT DoCoMo Inc. and provided a high level discussion of the factors that TSG SA should take into consideration when standardising new mechanisms within the 3GPP system. Based on this discussion conclusions and recommendations were provided for the consideration of TSG SA.
>
> SP-040149 NRPCA Conclusion for 23.976. This was introduced by RIM and proposed the inclusion of NRPCA into the Rel-6 specifications.

Nortel Networks, Siemens, Vodafone, Nokia, Ericsson, **3**, NTT DoCoMo, TIM and TeliaSonera did not support NRPCA standardisation at this time as they stated that this can be done with existing mechanisms (e.g. Push SMS) and would add unnecessary complexity. Due to the objections to supporting NRPCA received at the meeting it was agreed to continue with the Push service without using the NRPCA proposal. It was also agreed that some text would need to be inserted into the Push TR. **T-mobile raised the concern that NRPCA should not completely dismissed as it represents a useful tool for operators who want to roll out always-on gradually.**

7.2.3 Approval of contributions from TSG-SA WG2

CRs:

SP-040031 CRs On 23.002 (Network Architecture). These CRs were approved.

SP-040032 CRs On 23.060 (GPRS/PS domain stage 2). These CRs were approved.

SP-040033 CRs On 23.107 (QoS). These CRs were approved.

SP-040034 CRs On 23.195 (Early UE handling). These CRs were approved.

SP-040035 CRs On 23.207 (End to end QoS). These CRs were approved.

SP-040036 CRs On 23.221 (Architecture Requirements). These CRs were approved.

SP-040037 CRs On 23.228 (IMS Stage 2). These CRs were approved.

SP-040038 CRs On 23.240 (GUP stage 2). These CRs were approved.

SP-040039 CRs On 23.246 (MBMS stage 2). These CRs were approved.

SP-040040 CRs On 03.71, 23.171 and 23.271 (LCS stage 2). For 23.271 CR252 Lucent Technologies commented that the issues raised in the reason for Change, bullets 1, 2 and 3 should be further developed in SA WG2 in order to try to adopt a simple solution. For 0371CR045 it was clarified that the corresponding Rel-6 CR had been approved by TSG SA and it had been agreed to include this in previous Releases. All

CRs except CR252 were approved. The combined part from 23.271 CR186R7 was re-submitted to TSG SA in TD SP-040207 and was approved. The other part of 23.271 CR252 was returned to SA WG2 for further clarification. RAN WG2 should be consulted on the radio aspects of the finally agreed proposal.

SP-040054 CRs On 23.141 (Presence). These CRs were approved.

TSs and TRs:

SP-040048 TR 23.881 on “Interworking aspects and migration scenarios for IPv4 based IMS Implementations”, Version 1.0.0. This TR was provided for information and was noted. WGs were asked to study the TR and provide feedback to SA WG2. SA WG2 should take TSG SA #23 decision related to TD SP-040177 as guidance for the remainder of the work.

SP-040046 TR 23.976 on "Push Architecture", Version 2.0.0. This TR was approved and placed under TSG SA change control as version 6.0.0 (Rel-6).

SP-040047 TR 23.877 on "Speech Enabled Services", Version 2.0.0. This TR was approved and placed under TSG SA change control as version 6.0.0 (Rel-6).

SP-040049 TS 23.234 on "3GPP WLAN interworking", Version 2.5.0. There were some concerns over the temporary informative Annex E, which may be removed when Stage 3 work is stable. T-Mobile and TIM stated that they were intending to promote Annex ~~E~~F from **Informative** to **Normative** in order to give the Operators the flexibility to use the Tunnel-Switching alternative and will contribute on this in SA WG2. Annex D did not specify whether it is Informative or Normative. SA WG2 were asked to clarify this at their next meeting. T WG2 had not yet analysed this TS and were invited to study the SMS part to check compatibility with the SMS architecture and SMS delivery and to provide comments to SA WG2. This TS was then approved and placed under TSG SA change control as version 6.0.0 (Rel-6).

SP-040050 TS 23.125 on “Overall High Level Functionality and Architecture Impacts of Flow Based Charging”, Version 2.0.0. This TS was approved and placed under TSG SA change control as version 6.0.0 (Rel-6). Due to this it was agreed that the work on TR 23.825 will not be continued and the TR abandoned.

SP-040051 TR 23.851, “Network sharing; Architecture and Functional Description”, Version 2.0.0. This TR was approved and placed under TSG SA change control as version 6.0.0 (Rel-6).~~tr~~

It was clarified that the GSM Logo is included on the front page of TSs and TRs which are applicable to both the GERAN and the UTRAN.

WIDs:

SP-040041 Updated WID for Flow Based Charging. This updated WI description was reviewed and approved.

SP-040043 Revised WID on Circuit Switched Video and Voice Service. It was commented that the change of ownership from SA WG1 to SA WG2 had not been discussed in SA WG1. It was clarified that this WID was originally agreed with the expectation to start with SA WG1 ownership and to move it to SA WG2 ownership when SA WG1 have progressed the work. The SA WG1 Chairman concurred with this and assumed that the requirements work would still be done in SA WG1. **3** objected that the change of ownership also included enhancements to the details of the WID. It was clarified that the changes proposed reflected the changes in the CR agreed in SA WG1 specifications (it was noted that **3** had also objected to this CR). This updated WI description was approved.

SP-040045 Updated WID on “Network sharing stage 2”. This updated WI description was reviewed and approved.

SP-040042 WID on 3GPP Access Class Barring and Overload Protection. It was noted that Vodafone and NTT DoCoMo have agreed to provide joint Rapporteurs for this WI. It was commented that the completion date for June 2004 was unrealistic. It was agreed to update the completion dates to TSG SA #25 and other TSG dates moved to TSG RAN #26 and TSG GERAN #21. It was commented that when asking SA WG2 to undertake this work SA WG1 had recognised the possible applicability of this functionality to emergency situations, hence it was desirable that the work described within this WID not be unnecessarily delayed. The updated WID was provided in TD SP-040208 which was approved.

SP-040044 WID on Combining CS bearers with IMS. **3** expressed their objection to this WI, which they believe is a step backwards for CS bearer services. It was commented that the intention of this was to identify alternative mechanisms and compare them to make a decision on the best way forward. The SA WG2 Chairman stated that this will be studied in SA WG2 and if interesting options are found which have any impact on the service environment, then SA WG1 will be involved in the discussions. It was noted that this is a feasibility study and this should be completed in order that decisions on the applicability of re-use of IMS can then be determined. 3 also requested the title to be changed and clarified to show that the main focus of the work is the GSM RAT. This WI description was approved and **TSG SA acknowledged that the main focus of the work is the GSM RAN**.

7.3 TSG-SA WG3

7.3.1 Report from TSG-SA WG3 and review of progress

SP-040151 Report from SA WG3 Chairman to TSG SA#23. The status report of activities in SA WG3 was introduced by the SA WG3 Chairman, Mr. V. Niemi. He also reported that no workshop on MMS security was held as a consequence of a study made by GSMA earlier and mentioned in the SA WG3 report to TSG SA #22. The SA WG3 Chairman proposed that further work on the area should follow the general work division between OMA and 3GPP agreed for MMS. Therefore, SA WG3 would continue work on MMS security only if security issues specific to the 3GPP cellular system are identified.

SP-040152 Draft Report of SA WG3 meeting #32. This was provided for information and was noted.

Questions and comments:

Slide 21: Secure HTTP access to network application functions. It was clarified that it was intended to have a workshop with the OMA Security Group in order to discuss the work being done in 3GPP and OMA security groups and it is still hoped to find a suitable time and venue for this.

The SA WG3 Chairman was thanked for his report, which was then noted.

7.3.2 Questions for advice from TSG-SA WG3

SP-040027 LS from SA WG3: MMS WID MM4 Private addressing. This was introduced by the TSG SA Chairman and was provided to TSG SA for information and informed TSG SA that no issues had been determined with this WI by SA WG3. The LS was noted.

SP-040028 LS from SA WG3: reply to LS S1-040253 (=S3-040018) on “IMS messaging, Group management and Presence work overlap between 3GPP and OMA”. This was introduced by the SA WG3 Chairman and responded to questions from SA WG1. SA WG3 requested the addressed group to keep SA WG3 informed of any further discussions and agreements on the work split between 3GPP and OMA. The LS was noted.

7.3.3 Approval of contributions from TSG-SA WG3

CRs:

SP-040153 CR to 33.203 and 33.210: Addition of AES transform (Rel-6). These CRs were approved.

SP-040154 CR to 33.203: Deploying TLS (sips:) for interoperation between IMS and non-IMS network (Rel-6). This CR was approved.

SP-040155 CR to 33.108: Corrections to Tables 6.2, 6.7 (Rel-6). This CR was approved.

SP-040156 CR to 33.108: Corrections to Correlation Number (Rel-6). This CR was approved.

SP-040157 CR to 33.108: Correction to Identifiers (Rel-6). This CR was approved.

SP-040158 2 CRs to 33.108: Correction on the description of "initiator" in "PDP Context Modification CONTINUE Record" (Rel-5 and Rel-6). These CRs were approved.

SP-040159 CR to 33.108: Editorial Corrections (Rel-6). This CR was approved.

SP-040160 2 CRs to 33.108: Implications of Rel-5 onwards QoS parameters on ASN.1 module in 33.108. (Rel-5, Rel-6). These CRs were approved.

SP-040161 2 CRs to 33.108: Syntax error in Annex B.4 (Rel-5, Rel-6). These CRs were approved.

SP-040162 CR to 33.108: Clarification on the use of IRI-END record in PS interception (Rel-6). This CR was approved.

TSs and TRs:

SP-040175 Draft TS 33.220 v 2.0.0 and presentation cover sheet (Rel-6). This TS was approved and placed under TSG SA change control as version 6.0.0 (Rel-6).

SP-040165 Draft TS 33.221 v 2.0.0 and presentation cover sheet (Rel-6). This TS was approved and placed under TSG SA change control as version 6.0.0 (Rel-6).

SP-040167 Draft TS 33.234 v 2.0.0 and presentation cover sheet (Rel-6). This TS was approved and placed under TSG SA change control as version 6.0.0 (Rel-6).

SP-040168 Draft TS 33.310 v 2.0.0 and presentation cover sheet (Rel-6). This TS was approved and placed under TSG SA change control as version 6.0.0 (Rel-6).

SP-040169 Draft TR 33.817 v 2.0.0 and presentation cover sheet (Rel-6). This internal 3GPP TR was approved and placed under TSG SA change control as version 6.0.0 (Rel-6).

SP-040163 Draft TS 33.141 v 1.1.1 and presentation cover sheet (Rel-6). This TS was provided for information for a second time as there were still some open issues to be solved in SA WG3. The draft TS was noted. WGs were asked to consider the document and provide any comments to SA WG3.

SP-040166 Draft TS 33.222 v 1.0.0 and presentation cover sheet (Rel-6). This TS was provided for information and was noted. WGs were asked to consider the document and provide any comments to SA WG3.

SP-040170 Draft TS 55.226 v 1.0.0 and presentation cover sheet (Rel-6). This TS was provided for information and was noted. WGs were asked to consider the document and provide any comments to SA WG3. It was noted that the key length of 128 bits had been agreed by SA WG3 earlier and reported to several previous TSG SA meetings. The affected groups who need to do some work to support the longer keys in future releases will be informed by SA WG3. **It was also noted that SA WG3 were investigating the support for the longer keys in different protocols and would report the suitability of the specification for Rel-6 at the next TSG SA meeting.**

7.4 TSG-SA WG4

7.4.1 Report from TSG-SA WG4 and review of progress

SP-040061 SA WG4 Status Report at TSG SA#23. The status report of activities in SA WG4 was introduced by the SA WG4 Chairman, Mr. K Järvinen.

Questions and comments:

Slide 23 status of the Codec selection: It was clarified that on Slide 24 it notes that the status had changed and SA WG4 would go for two Codecs which may have an impact on the formats. There was some objection from some companies against not to provide the C-Code for Recommended Codecs as is done for Default Codecs.

Slide 9 Languages for testing. It was questioned whether different results would be obtained using different languages than those chosen. The SA WG4~~2~~ Chairman replied that it had been found that French and Arabic provided good test parameters and other languages should not effect the results significantly.

Slide 23: It was asked how terminal and server compatibility can be guaranteed if two optional Codecs are allowed. It was clarified that for worldwide compatibility with all servers the terminal would need to support both Codecs, but scenarios where only support of a single Codec would be enough (e.g. home network services). There was a request that SA WG4 specify a single Codec. It was clarified that the selection process was set up to test high and low bit-rates and the possibility for two Codecs had always been allowed. After some discussion it was decided that SA WG4 should continue with their work on the basis that both optional Codecs should be allowed, and the specifications should clearly identify the performance characteristics of each Codec as determined during the recent selection procedure. It was also agreed that SA WG4 should develop the specifications ~~based on~~ using versions of the Codecs used during the selection process.

Slide 13: The SA WG4 Chairman clarified that there had been a strong reservation from one company on the Working Assumption to adopt the ~~abc~~AVC Codec and a request for further testing was made. SA WG4 hope to solve the concerns of some companies at their next meeting.

The SA WG4 Chairman was thanked for his report, which was then noted.

7.4.2 Questions for advice from TSG-SA WG4

SP-040062 LS from SA WG4: Signalling of Codecs (reply to TSG SA #23). This was introduced by the SA WG4 Chairman and clarified the extensibility, signalling and usage of Codecs defined in SA WG4 multimedia service specifications (TS 26.234 for PSS, TS 26.140 for MMS, TS 26.235 for IMS conversational applications and TS 26.110 for CS multimedia). It was noted that this was an SA WG4 input to TSG SA for information, rather than an official incoming Liaison Statement. The response to the request for information from TSG SA was noted.

SP-040173 Future work on speech recognition improvements. This was introduced by Vodafone and proposed that in line with existing agreements, 3GPP work should be commercially focussed and asked TSG SA to task SA WG4 with the role of evaluating the costs and benefits of mechanisms for improving speech recognition in the CS domain. Vodafone also suggested that information to use within this study should include (but not be limited to) the results of the DSR vs AMR speech recognition Codec competition, and TR 23.877. It was agreed that this work could be useful and Vodafone were asked to provide a WID to SA WG4 to start this work as the current SA WG4 WI covers only the PS domain. It was noted that a new Stage 1 WI would also be needed in SA WG1. It was commented that more audio Codecs should be considered in the Codec selection (e.g. the EFR Codec) and that for the CS speech recognition work the AMR 12.2 mode is more important than 4.75 because AMR 12.2 is compliant with EFR and 4.75 is not normally used in speech services. Hence, it was commented that in the CS SES work the AMR 12.2 Codec should have a high weight.

7.4.3 Approval of contributions from TSG-SA WG4

CRs:

SP-040197 CR 26.073 019 Correction of AMR DTX functionality (Release 5). This CR was approved.

SP-040198 CR 26.104 031-032 "Correction of floating point AMR DTX functionality" (Release 5 and Release 6). This CR was approved.

SP-040080 CR 26.937 001 rev 2 on Rate Adaptation simulation results for PSS (Rel-6). This CR was approved.

TSs and TRs:

SP-040063 TR 26.935 "Packet switched conversational multimedia applications; Default Codecs; Performance characterization" V1.0.0 (Release 6). It was noted that some companies had made comments on the conclusions. The SA WG4 Chairman stated that the conclusions will be re-drafted before presenting the TR for approval. This TR was provided for information and was noted. WGs were asked to consider the document and provide any comments to SA WG4.

SP-040064 TS 26.243 "Software documentation for fixed-point DSR Extended Advanced Front-end" V. 1.0.0 (Release 6). This TS was provided for information and was noted. WGs were asked to consider the document and provide any comments to SA WG4.

SP-040065 3GPP TS 26.244 Transparent end-to-end packet switched streaming service (PSS);"3GPP file format (3GP)" Version 2.0.0 (Release 6). This TS was approved and placed under TSG SA change control as version 6.0.0 (Rel-6).

WIDs:

SP-040066 Work Item Description on Codec Enhancements for Packet Switched Conversational Multimedia Applications (Release 6). This WI description was approved.

SP-040067 Work Item Description on 3G-324M updates in Release 6. This WI description was approved.

Codec Selection Test and Results Reports:

SP-040073 Audio Codec selection: Report from SA4 to SA#23 on PSS/MMS audio Codec selection. This was introduced by the SA WG4 Chairman and was noted.

SP-040074 Audio Codec selection: Proposed text on audio media type into TS 26.234 Rel-6. This was introduced by the SA WG4 Chairman and was noted.

SP-040068 3G PS conversation tests Phase 2 : Report from FT R&D for Host Lab and Subjective Testing Lab functions. This report was approved and payment of the testing laboratories can be done.

SP-040069 3G PS conversation tests Phase 2 : Report from Dynastat on Global Analysis of Phase 1 & Phase 2 Conversation Test results. This report was approved and payment of the testing laboratories can be done.

SP-040070 Audio Codec selection tests: Reports from Subjective Testing Labs. This report was approved and payment of the testing laboratories can be done.

SP-040071 Audio Codec selection tests: Reports from "Host" and "Selection of items" Laboratories. This report was approved and payment of the testing laboratories can be done.

SP-040072 Audio Codec selection tests: Reports from "Global Analysis" Laboratory. This report was approved and payment of the testing laboratories can be done.

SP-040075 SES Codec selection: Report from TSG SA WG4 to SA#23 Plenary on SES Codec selection. This was introduced by the SA WG4 Chairman and was noted.

SP-040076 SES Codec selection: Proposed CRs from TSG SA4 to introduce SES to Release 6 specifications. This was introduced by the SA WG4 Chairman and was noted.

SP-040077 SES Codec selection: SES verification plan v 1.0. This was introduced by the SA WG4 Chairman and was noted.

7.5 TSG-SA WG5

7.5.1 Report from TSG-SA WG5 and review of progress

SP-040105 Status report of SA5 to SA #23. The status report of activities in SA WG5 was introduced by the SA WG5 Chairman, Mr. M Truss.

Questions and comments:

Slide 17: It was clarified that discussions were ongoing in SA WG5 on IP Flow-based charging issues, but no conclusion had yet been reached.

The SA WG5 Chairman was thanked for his report, which was then noted.

7.5.2 Questions for advice from TSG-SA WG5

SP-040106 LS from SA WG5 to SA WG1 and TSG SA on Addition of Subscription Management (SuM) Definition and Abbreviation in 21.905. This was introduced by SA WG5 Chairman and was noted. A Related CR was provided in TD SP-040107.

7.5.3 Approval of contributions from TSG-SA WG5

CRs:

SP-040107 Rel-6 CR 21.905 (Add SuM Definition and Abbreviation). This CR was approved.

SP-040108 2 Rel-6 CR 32.140/1 Subscription Management TS-family (32.14x and 32.17x) title alignment ('SM' becomes 'SuM' and delete 'Services operations management'). It was noted that the reference title was changed which was not included in the cover sheet of the CR. These CRs were approved.

SP-040110 Rel-6 CR 32.140 Update the use cases in Subscription Management. This CR was approved.

SP-040111 2 Rel-4/5 CR 32.102 Correction of reference to invalid TS. These CRs were approved.

SP-040112 Rel-6 CR 32.102 Deletion of clauses in 32.102 that have been moved to 32.150/1/2. This CR was approved.

TD SP-040116 Rel-6 CR 32.421 Correction in Trace high level architecture. This CR was approved.

TD SP-040118 Rel-6 CR 32.302-510 Update Notification IRP IS for new methodology. This CR was approved.

TD SP-040119 6 Rel-4/5 CR 32.602/612, Rel-5/6 32.662 System Context correction. These CRs were approved.

TD SP-040120 2 Rel-6 CR 32.111-2/4 Abort GetAlarmList. These CRs were approved.

TD SP-040121 Rel-6 CR 32.362 EP IRP IS correction. This CR was approved.

TD SP-040128 4 Rel-5/6 CR 32.622/623 Addition of missing attributes for the managementScope association. These CRs were approved.

TD SP-040129 3 Rel-6 CR 32.641/2/3 Add enhancement for support of both FDD and TDD modes. These CRs were approved.

TD SP-040130 2 Rel-5 CR 32.624/634 Alignment with the ISs 32.622/632. These CRs were approved.

TD SP-040131 6 Rel-5 CR 32.615/25/35/45/55 & Rel-6 32.625 Addition of the capability to contain instances of VsDataContainer to some MOs - Alignment with the ISs 32.6x2. These CRs were approved.

TD SP-040132 Rel-5 CR 32.644 Correction of OIDs for MOCs, packages, and attributes affected by the change of ura to uraList. This CR was approved. Some specifications which are not available in electronic format were removed from the list. **The MCC Database manager was asked to note these unavailable specifications and take appropriate action.**

TD SP-040133 R99 CR 32.104 Correction of XML Measurement Report File format example. This CR was approved.

TD SP-040134 3 Rel-4/5/6 CR 32.403 Radio link additions. These CRs were approved.

TD SP-040135 Rel-6 CR 32.403 Iu connection release. This CR was approved.

TD SP-040137 Rel-4 CR 32.215 Correction on SGSN PLMN identifier in G-CDR. This CR was approved.

TD SP-040138 Rel-5 CR 32.200 Fill-in the empty clauses with SA5-reviewed material from SA2's TR 23.815. This CR was approved.

TD SP-040139 2 Rel-4/5 CR 32.205 Correction to ASN.1 Charging Data Record (CDR) - Alignment with R99 32.005. These CRs were approved.

TD SP-040143 3 Rel-5 CR 32.225 IMS Charging. These CRs were approved.

TSs and TRs:

TD SP-040109 New Rel-6 TR 32.803-100 "Telecommunication management; Process Guide; Use Cases in Unified Modelling Language (UML)". This TR was provided for information and was noted. Delegates were invited to study the TR and provide comments to SA WG5.

TD SP-040113 New Rel-6 TS 32.150-200: "Telecommunication management; Integration Reference Point (IRP) Concept and definitions". This TS was approved and placed under TSG SA change control as version 6.0.0 (Rel-6).

TD SP-040114 New Rel-6 TS 32.151-200: "Telecommunication management; Integration Reference Point (IRP) Information Service (IS) template". This TS was approved and placed under TSG SA change control as version 6.0.0 (Rel-6).

TD SP-040115 New Rel-6 TS 32.152-200: "Telecommunication management; Integration Reference Point (IRP) Information Service (IS) Unified Modelling Language (UML) repertoire". This TS was approved and placed under TSG SA change control as version 6.0.0 (Rel-6).

TD SP-040117 New Rel-6 TS 32.422-100: "Telecommunication management; Subscriber and equipment trace: Trace control and Configuration Management". This TS was provided for information and was noted. Delegates were invited to study the TR and provide comments to SA WG5.

TD SP-040122 New Rel-6 TS 32.331-200 "Telecommunication management; Notification log Integration Reference Point (IRP): Requirements". This TS was approved and placed under TSG SA change control as version 6.0.0 (Rel-6).

TD SP-040123 New Rel-6 TS 32.332-100 "Telecommunication management; Notification log Integration Reference Point (IRP): Information Service (IS)". This TS was provided for information and was noted. Delegates were invited to study the TR and provide comments to SA WG5.

TD SP-040124 New Rel-6 TS 32.341-200 "Telecommunication management; File Transfer (FT) Integration Reference Point (IRP): Requirements". This TS was approved and placed under TSG SA change control as version 6.0.0 (Rel-6).

TD SP-040125 New Rel-6 TS 32.351-200 "Telecommunication management; Communication Surveillance (CS) Integration Reference Point (IRP): Requirements". This TS was approved and placed under TSG SA change control as version 6.0.0 (Rel-6).

TD SP-040126 New Rel-6 TS 32.371-100 "Telecommunication management; Security Management Concept and Requirements". The SA WG3 Chairman reported that this had been reviewed by SA WG3 and no problems had been identified with this TS. This TS was provided for information and was noted. Delegates were invited to study the TR and provide comments to SA WG5.

TD SP-040127 New Rel-6 TS 32.343-100 "Telecommunication management; File Transfer (FT) Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)". This TS was provided for information and was noted. Delegates were invited to study the TR and provide comments to SA WG5.

TD SP-040136 New Rel-6 TS 32.413-200 "Telecommunication management; Performance Management (PM) Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)". This TS was approved and placed under TSG SA change control as version 6.0.0 (Rel-6).

TD SP-040140 New Rel-6 TS 32.250-200: "Telecommunication management; Charging management; Circuit Switched (CS) domain charging". This TS was approved and placed under TSG SA change control as version 6.0.0 (Rel-6).

TD SP-040141 New Rel-6 TS 32.296-100: "Telecommunication management; Charging management; Online Charging System (OCS): Applications and interfaces". This TS was provided for information and was noted. Delegates were invited to study the TR and provide comments to SA WG5.

TD SP-040142 New Rel-6 TS 32.297-200: "Telecommunication management; Charging management; Charging Data Records (CDR) file format and transfer". This TS was approved and placed under TSG SA change control as version 6.0.0 (Rel-6).

TD SP-040144 New Rel-6 TS 32.260-100: "Telecommunication management; Charging management; IP Multimedia Subsystem (IMS) charging". This TS was provided for information and was noted. Delegates were invited to study the TR and provide comments to SA WG5.

TD SP-040145 New Rel-6 TS 32.299-100: "Telecommunication management; Charging management; Diameter charging application". This TS was provided for information and was noted. Delegates were invited to study the TR and provide comments to SA WG5.

7.6 Review of TSG SA work programme

There were no specific contributions under this agenda item. The 3GPP Work Programme was dealt with under agenda item 8.7.

7.7 Letters to other groups

There were no specific contributions under this agenda item. Outgoing Liaisons from TSG SA are listed under agenda item 8.5.

7.8 Other issues

There were no specific contributions under this agenda item.

8 Technical coordination with TSG CN, TSG RAN, TSG T and TSG GERAN

8.1 Report from TSG CN

8.1.1 Report and questions for discussion from TSG CN

TD SP-040179 Draft Meeting Report from CN#23. This was provided by the TSG CN Secretary for information and was noted.

TD SP-040178 CN Chair report to SA#23. The Status report from TSG CN was presented by the TSG CN Chairman.

Release 5 Status Overview: Various IMS Cleanup, CAMEL4 Cleanup, Release 1999-Rel-5 CRs not yet completed for routeing of emergency calls based on geographic location.

TrFO handling of Codecs for inter-MSC handover (SRNS relocation) clarified (issue closure).

Release 6 (New or Revised Items):

New: Network Sharing Stage 3 (NP-040036):
- Target is June 2004
- Currently only CN1 work identified

New: Trace Management Stage 3 (NP-040146):
- CN4 work targeted to complete June 2004
- CN1 work (IMS) completed earliest Dec 2004 (IETF Dependency)

Revised: IMS Phase 2 (NP-040034)
- Added UE solution for interworking with non-IMS SIP clients (incl. IPv4 SIP clients)
- Completion slipped to Sept 04

OSA Stage 3 (NP-040144)

- Documents current contents of OSA work for Rel 6 (Agreed with SA1)
- GUP input still required from SA1

Release 6 (Miscellaneous):

Completed: Interoperability and commonality between IMS using different IP connectivity networks (IMSCOOP).

Completed: CAMEL4 prepay support for SCUDIF.

No CN work anticipated for SES and AMR WB+.

CN position on overlap of IMS messaging, group management, presence in TD SP-040019.

High Availability discussions continuing in CN5.

Extensive use of Diameter.

Questions and Comments:

Slide 6: Bundling of allocated codes for Diameter. The TSG CN Chairman clarified that ~~TSG CN~~ SA WG5 has also applied for ~~and received a certification~~ a Diameter application ID. It is envisaged to use a Proxy function for code requests and therefore any requests for Diameter codes should be passed through CN WG4.

The TSG CN Chairman clarified that the Diameter work in the IETF is expected for April 2004 and the IETF management have been requested to give priority to this work.

Slide 6: It was clarified that the 3rd bullet should read Speech Enabled Services (not SRES). The AMR WB+ Codec already has a code point allocated, if another Codec is to be used then another codepoint will need to be allocated.

It was noted that the work on the Gx and Rx interfaces ~~for Diameter~~ will be under the responsibility of CN WG3.

Questions for Guidance from TSG SA:

Request SA provide consolidated response to ITU-T SG 16 on use of H.323 over GPRS:

- TSG CN position in TD SP-040020
- Route response through ITU-T coordination ad-hoc

Request TSG SA provide consolidated LS to PCG/OP on collaboration with Liberty Alliance:

- CN position in TD SP-040021

Request SA provide consolidated response to TISPAN on use of IMS for NGN:

- CN position in TD SP-040182
- Route response through ITU-T coordination ad-hoc.

Use of RAT in PLMN Background Scan:

- CN takes working assumption that RAT is used in background scan.
- CN analysis based upon this assumption in SP-040183.
- CRs to be approved at CN#24.
- Other groups (especially SA1) requested to give feedback on proposed side effects/issues.
- Vote in CN#24 between alternatives if CN1 cannot agree on a solution.

The TSG CN Chairman was thanked for giving his report, which was then noted.

TD SP-040180 IETF status report. This was introduced by the IETF Co-ordinator (S. Hayes) and provided the status of the IETF specifications upon which 3GPP work items have a dependency.

Good progress on several critical items:

- *Diameter Credit Control has completed WGLC*
- *Sipping 3pcc draft (long dangling Rel-5 dependency) finally approved by IESG*

Most protocol requirements documents fairly stable and protocol work proceeding. Total Release 6 dependencies now at 89 (increase of 7 since last report).

Highest risk areas are:

- *AAA (Diameter Multimedia Application)*
- *EAP (WLAN Network Discovery and Selection)*
- *SIMPLE/SIP/SIPPING/XCON (Filtering, Conference Control, Presence Publication, Whispering, Emergency Calls)*

Most IETF drafts on target for August 2004 timeline.

IETF investigating changes to their working procedures to improve efficiency.

IANA allocations likely to be a problem in the future. RFC publication also likely to be slow.

There was a request to use this IETF dependency list in the Release 6 prioritisation discussions. It was agreed that this could be done, understanding that the list provided to the IETF should also be prioritised.

8.1.2 Information on Release 1999, Release 4, 5 and 6 in TSG CN

TD SP-040183 LS (from TSG CN) on PLMN selection and background scan. This was introduced by the TSG CN Chairman. This was considered after approval of the CR in TD SP-040088 in order to provide guidance to SA WG1 on this issue. TSG CN asked TSG SA to provide answers to the following questions:

1. *Does a single mode UE ignore those entries on PLMN selector lists where the PLMN is associated with a non-supported RAT? (see 3.1 in the attached document NP-040129).*
   ~~This needs further study.~~Yes.
2. *Is it acceptable that the presence of a high priority PLMN + RAT combination can give a high priority for the other access technology of the same PLMN, even though this cell may be part of a forbidden LA? (see table 1 and 2 in NP-040129). It should be noted that this case falls in two alternatives, a cell in a forbidden LA which the UE knows to be forbidden, since it is on the forbidden LA list and a cell which the UE does not know whether it would be forbidden or not, since it is part of the other RAT of the same PLMN and the UE is not allowed to access it.*
   This needs further study.
3. *Does the introduction of the mechanism to prevent 'hopping' between different RATs of the same PLMN lead to undesirable behaviour which means that it would be better to allow for the 'hopping' situation?*
   The signalling cost of the hopping avoidance mechanism will need to be analysed to determine the efficiency of the mechanism.
4. *For those items not included in the specification (e.g. comments in 3.12 in NP-040129) how will they be clearly documented to ensure that everyone is aware of the decisions taken by 3GPP?*
   This would depend on the items which remain outside of the specifications and could be made into a table and liaison or kept in a 3GPP Technical Report.

The TSG CN Chairman explained that they had made working assumptions but not approved CRs in order to allow other WGs to analyse the assumptions and provide comments with any serious flaws in the assumptions. In the absence of any identified problems, TSG CN intend to approve CRs at TSG CN #24. Companies attending RAN and CN WGs were urged to study this and to provide indications to SA WG1 on the acceptability of the assumptions and requirements in TS 22.011. The attachment (TD NP-040129) to this LS contained further information which should also be considered. The addressed groups of this LS (SA WG1, GERAN WG1, RAN WG2, CN WG1) were asked to study the attached document and provide their conclusions on the working assumptions of TSG CN.

It was noted that currently the scenario of having CDMA-2000 connected to MAP-based Core Network is not specified for Rel-6 and specifications should be designed in a way which does not limit the functionality of future Releases.

TD SP-040184 LS (from CN WG5) on Clarifications concerning OSA High Availability discussion. This was introduced by the CN WG5 Chair and was provided to clarify a number of issues concerning the support for High Availability (HA) in the OSA Application Programming Interfaces (APIs). The LS was provided for information and was noted.

TD SP-040019 LS (from CN WG1) on "IMS messaging, Group management and Presence work overlap between 3GPP and OMA. This was introduced by the TSG CN Chairman and was covered by discussions of other contributions. The LS was noted.

TD SP-040021 LS (from CN WG4) on Relationship between 3GPP and Liberty Alliance related to GUP work. This was introduced by the TSG CN Chairman. CN4 asked TSG CN and TSG SA to clarify the nature of the formal relationship (if any) between 3GPP and Liberty Alliance in general, and with regard to the specific concerns expressed by CN WG4:

1) The use of Liberty Alliance specification text in 3GPP.
2) Access to Liberty Alliance documents and ability to contribute to Liberty Alliance work relevant to 3GPP.
3) IPR implications of using Liberty Alliance standards in 3GPP.

The proposal from TSG CN on handling these issues was provided in TD SP-040181 which was considered:

SP-040181 LS (from TSG CN) on Collaboration between 3GPP and Liberty Alliance Project. This was introduced by the TSG CN Chairman and contained the TSG CN working assumption subject to a satisfactory cooperation agreement being established. TSG CN requested that the 3GPP PCG/OP expeditiously pursue the negotiation of a collaboration agreement with LAP which would allow:

- Participation and contribution of 3GPP member companies to LAP discussions relevant to 3GPP requirements.
- Access by 3GPP member companies to LAP documents relevant to 3GPP requirements.
- Clarification and resolution of any IPR issues between 3GPP (and its partners) and LAP.

TSG SA were asked to endorse this view and forward the LS to the PCG/OP.

It was commented that as there are at least 2 work items which depend upon the co-operation with the Liberty Alliance and it was suggested that this is endorsed. The TSG SA Chairman ~~reported that~~ asked if there was a large difference in the membership of 3GPP and the Liberty Alliance ~~and this~~ which may cause potential problems in using their work. Nortel Networks ~~disagreed with this and~~ stated that there were many companies in the management groups of both 3GPP and the Liberty Alliance.
The TSG RAN Chairman asked whether a presentation of the work of the Liberty Alliance could be arranged for the PCG/OP.
It was reported that the IPR policy of the Liberty Alliance should also be checked to avoid problems with using their work. The TSG CN Chairman stated that this was being considered and a similar arrangement as between the OMA and 3GPP is being aimed at. If this is not possible then the working assumptions will need to be revisited.
The need for 3GPP to reference the Liberty Alliance specifications was questioned. The TSG CN Chairman responded that the work could be done in 3GPP but this would be duplication of work and the Liberty Alliance licences are free for everyone. Also, taking Liberty Alliance documents and modifying them would be a breach of their copyright without the necessary authorisation. It was reported that the legal advisors are being consulted on this.

The timescales for completion of the work should also be studied before undertaking this proposal. Also, it was pointed out that the IPR policies of each of the 3GPP SDOs are concerned as 3GPP itself does not have its' own IPR Policy.

It was agreed to forward the LS to the PCG ~~along with the attached problem statement~~ for their consideration and to ask them to provide guidance on the best way forward. A LS to the PCG, based on this contribution, was provided in TD SP-040216 which was reviewed and updated, to change "agreement" to "collaboration" and to remove the revision marks, in TD SP-040220 and approved.

TD SP-040022 LS (from CN WG4) on Routing of Emergency Calls based on Geographical Coordinates. This was provided for information and was noted.

TD SP-040018 LS (from CN WG1) on background scan requirements. This was covered with TD SP-040183.

8.1.3 Information on status and changes to deliverables

There were no specific contributions under this agenda item. The status of TSG CN work was included in the Report from TSG CN under agenda item 8.1.1.

8.2 Report from TSG RAN

8.2.1 Report and questions for discussion from TSG RAN

TD SP-040188 Draft Report of TSG RAN meeting #23. This was provided by the TSG RAN Secretary for information and was noted.

TD SP-040189 Report from TSG RAN to TSG SA #23. The Status report from TSG RAN was presented by the TSG RAN Chairman.

ITU-R matters: The reminder for the Organisational Partners for submission in May was approved and is presented to the this meeting of TSG SA for endorsement prior to the sending to the PCG lists (TD SP-040190). At ITU-R meeting in BUSAN end of February there has been some discussions about the necessity of providing an update every year. It was clarified that there is no requirement for doing so. It is hence up to the 3GPP to decide on the frequency of the updates. This will be reported as well to the next PCG in April.

Release 1999 and Rel-4:

Load due to CRs on Release 1999 is decreasing and their scope is more and more limited. From the numbers of CRs on Release 1999 only 14 are concerning the RRC (25.331).

Work on Repeaters still pending.

TDD seems to approach the same level of completion as Release 1999. New CRs have been introduced in Rel-5 and Rel-6.

Release 5:

72 CRs (non cat. A) on Release 5 have been approved.

RAN WGs reviewed the impact of freezing the ASN.1 coding. It was felt premature to do that during this meeting but this decision was decided to be applicable after the next meeting. Advice was given to RAN WG2 and RAN WG3 to check seriously the use of Isolated impact when modifying the ASN.1 for backward compatibility.

IP/ATM inter-working has been a subject to major discussion in RAN. There is currently 3 solutions which were agreed to be incorporated in Rel-5 and some companies found difficulties in accepting the introduction of any of the three solutions (IP/ATM IWF with reference to ITU-T specification only, Use of PWE3 only and allowing both). It was impossible to build a consensus. It was finally agreed that discussion could take place in between companies before a vote shall take place at the next meeting.

Some discussion started on the requirements for terminals on HSDPA concerning potential power reduction. A request for system simulation work to be carried over was identified and some working assumptions have been proposed to be reviewed and agreed by email within a period of 2 weeks.

Release 6:

On Iu enhancements for IMS support in TSG RAN, discussion took place at the previous and the last but one meeting dealing with distinguishing between SIP user traffic and SIP signalling traffic for those RABs which are supposed to carry signalling traffic only. A coordinated approach with SA WG2 and CN groups is necessary to handle mixed content. Currently this situation prevents completion of this the work in TSG RAN.

MBMS has been scrutinised by TSG RAN to check the status of the work. A better view is now available due the joint meetings that were taking place during the previous period due to the co-location of RAN WG meetings. Major working assumptions were achieved from the Radio Access network.

Work on UMTS800 & UMTS850 and UMTS 1700/2100 is now completed.

The work on RAB support enhancement has focused on IMS voice over IP.

UE positioning Enhancement is progressing however better co-ordination between groups is needed.

Work on AGPS performances has been started and a new specification is under development. It is still required that TSG SA and more specifically SA WG1 clarify the requirement urgently so that the WI can be completed in due time.

Work on Network sharing is pending progress in SA WG2.

Improved access to User Equipment measurement data for Controlling Radio Network Controller to support TDD Radio Resource Management (RRM) is now completed.

Network Assisted Cell Change (NACC) from UTRAN to GERAN – network-side aspects could not be completed in due time and hence the completion of the work is moved to June 2004.

Enhancement of the support of network sharing in the UTRAN has been linked to the SA WG2 and it is foreseen that it will take 3 months after completion of the work in SA WG2.

OFDM Feasibility study seems to be possible to be completed in June I order to allow the discussion on the way forward at the PCG in October 2004.

FS on Low Output Powers for general purpose FDD BSs was completed and it was concluded that no work was required as O&M solution has been agreed.

New Work items approved:

Optimisation of downlink channelisation code utilisation for FDD was approved as a building blocks however some clarification for the wording were tasked to RAN WG1. A similar one for TDD was also approved in principle and RAN WG1 was tasked to review the wording as for the one on FDD. A new work item on High Speed Uplink Packet Access was approved.

Questions and Comments:

Slide 9: Network Sharing: It was commented that the work is progressing on Gateway architecture option but the other architecture being considered is not progressing fast. The TSG RAN Chairman reported that RAN WG2 were awaiting the stabilisation of the SA WG2 work before they can continue their work. This was currently estimated to be 3 months for RAN WG2 to complete their work.

Slide 12: Meeting Lengths. It was commented that the TSG RAN meeting length of 3 days had caused some delegates problems with having time to properly consider and discuss contributions. This was noted as an issue for TSG RAN to decide upon.

Slide 7: It was clarified that SA WG2 needed to provide information on SIP user traffic and SIP signalling traffic. It was clarified that there is no need for work in CN WGs at this time.

Slide 9: It was clarified that the PCG had been provided will the feasibility Study on AGPS performances to determine whether the work is in the Scope of 3GPP.

The TSG RAN Chairman was thanked for giving his report, which was then noted.

8.2.2 Information on Release 1999, Release 4, 5 and 6 status in TSG RAN

TD SP-040190 Reminder for the SDOs for update of ITU-R M.1457. This was endorsed for submission to the PCG.

TD SP-040008 Reply LS (from RAN WG3) on RAN Work Item "'Control of Remote Electrical Tilting Antenna" and possible impact on SA WG5'. This was provided for information to TSG SA and was noted.

The RAN Chairman reported that he had received a request for a Workshop on the potential transition between 3G and "*beyond 3G*". This will need to be taken up at the PCG. Members were asked to noted this initiative.

8.2.3 Information on status and changes to deliverables

There were no specific contributions under this agenda item. The status of TSG RAN work was included in the Report from TSG RAN under agenda item 8.2.1.

8.3 Report from TSG T

8.3.1 Report and questions for discussion from TSG T

TD SP-040196 TSG-T#23 draft meeting report. This was provided by the TSG T Secretary for information and was noted.

TD SP-040195 TSG-T#23 Progress Report. The Status report from TSG T was presented by the TSG T Chairman.

T WG1: Conformance Testing

Status of RF Test Specifications:

RRM Progress The proportion of complete RRM tests is approximately 40 %. Good progress on outstanding RRM TCs (6 more RRM tests). Routine maintenance (Follow up Database updated). TS 34.121 Terminal Conformance Specification, Radio Transmission and Reception (FDD) (V5.2.0 -> V5.3.0)

Status of Signalling Test Specifications:

TS 34.108 Common Test Conditions for User Equipment (UE) Conformance Testing:
Release 1999 (V3.14.0 -> V3.15.0), Rel-4 (V4.9.0 -> V4.10.0) and Rel-5 (V4.10.0 -> V5.0.0). Agreed to create a single version(REL-5) across all releases.

TS 34.123-1 UE Conformance Specification, part 1- Conformance Statement (V5.6.0 -> V5.7.0). Corrections coming from the verification of the TTCN. Ongoing discussions over:

- Handling of critical versus non-critical CRs to already approved TCs
- Splitting some test cases into high and low data rate variants in order to allow GCF validation to proceed with the low data rate ones : Agreed but negative in a longer term concern

TS 34.123-2 UE Conformance Specification, part 2 - ICS Implementation Statement (V5.6.0 -> V5.7.0). Updated to reflect changes in TS 34.123-1.

TS 34.123-3 UE Conformance Specification, part 3 - Abstract Test Suites (TTCN) (V3.4.0 -> V3.5.0). Automatic Document Numbering (ADN) process introduced for TTCN CRs. Added GPRS GERAN ASPs to control SS : Allow GPRS<>UMTS InterRAT tests to be drafted.

Report of TTCN Project Team (160):

T1 PRD-12 fully implemented. A formal delivery of V3.4.0 in 34.123-3. New experts in 2004 (3 selected). Updated MCC TF 160 ToR.

T WG2: Services & Capabilities

SWG1: MExE: Closed

SWG2: UE Interfaces and Capabilities:

TS 23.241 GUP/XML Schema and Data Description Methods: approved as V6.0.0. TS 24.241 Common Objects: 60% complete (little progress). Dr. Prem Sood has resigned as SWG2 chair. SWG2/CN4 joint meeting scheduled on GUP matters.

SWG3: Messaging – SMS:

Mechanism for checking the existence of an SMS interworking agreement introduced in TS 23.040 as an option. Private addressing schemes work has made significant progress. MM9 on line charging interface and hyperlink support introduced. Improvements to MM4 interface (between MMS Relay/Servers) and MM7 interface (between MMS Relay/Server and VASP). Ongoing work in the following and other areas:

- SIP addressing in MMS, MM7 enhancements, MM storage on USIM, Private Addressing Schemes, Charging transparency, Multiple Relay/Servers architecture, Application ID in MMS.

Transfer of MMS to OMA:

- LS to OMA cc T and SA (SP-040029):
  - 95% of 23.140 is bearer agnostic.
  - Many detailed procedural issues are highlighted for consideration.
- IPR and copyright issues between 3GPP and OMA is still pending for further progress the transfer of work.

T WG3: Smart Card Application Aspects

New specifications approved:

TS 31.130 “(U)SIM API for Java Card™” approved as V6.0.0. TR 31.919 “2G/3G Java Card API based applet interworking” approved as V6.0.0.

New WIDs approved:

Test specification for (U)SIM API for Java Card™. USSD message transfer to USIM.

TS 31.123 USAT Interpreter Interoperability Test Specification: Decided to close the work item itself (No interest to develop).

Other Issues in T

Discussion on the future of T WG2:

LS from T WG2 on the impact on T WG2 of transferring MMS stage 2 bearer agnostic work to OMA after MMS Rel-6. Several options suggested.

Contribution on the closure of TSG T WG2: Proposed to close T WG2 at TSG T #26 (Dec 2004) and transfer the responsibility for specifications maintenance to TSG T.

Result of Discussion:

- Not to set a date for the closure of T WG2 at this meeting;
- T WG2 was invited to discuss the matter and report its consensus back to TSG T in June;
- Members were requested to bring their position to TSG T in June.

Questions and Comments:

Slide 15 - more time for T WG2 to decide the best way to handle the closing of T WG2.

Slide 8: LCR TDD. The TSG RAN Chairman expressed surprise on the conversion of a branch of FDD ATSs for TDD Rel-4. The TSG T Chairman reported that delegates were aware of the discussions in the Jeju Island meeting and he would report this back to T WG1.

Slide 8: High Chip Rate. The expected completion for testing was questioned. It was reported that progress was slow and more contribution to T WG1 is needed.

The TSG T Chairman was thanked for giving his report, which was then noted.

8.3.2 Information on Release 1999, Release 4, 5 and 6 status in TSG T

TD SP-040029 LS (from T WG2) on MMS transfer to OMA. This was introduced by the TSG T Secretary. T WG2 invited OMA-MWG-MMSG and 3GPP2-X to start a discussion and the socialisation of ideas on MMS transfer to OMA between these groups. T WG2 also invited SA WG1, SA WG4, SA WG5, T WG3 to consider to also start socialization of the idea to set up some common agreement on potential transfer (or not) of any of their MMS work with OMA and 3GPP2. The Liaison was copied to TSG SA for information and was noted. Delegates were asked to consider the content of this LS for discussion in the addressed groups.

8.3.3 Information on status and changes to deliverables

There were no specific contributions under this agenda item. The status of TSG T work was included in the Report from TSG T under agenda item 8.3.1.

8.4 Report from TSG GERAN

8.4.1 Report and questions for discussion from TSG GERAN

TD SP-040176 TSG GERAN Report to TSG SA #23. The Status report from TSG GERAN was presented by the TSG GERAN Chairman.

3GPP2 multi-mode terminal:

TSG GERAN have studied liaison statement from 3GPP2 on Preferred roaming list for 3GPP2 multi-mode terminal and concluded that if:

- The mechanism is made as an overlay to existing network selection mechanism, and
- The mobile follow 3GPP/3GPP2 specifications corresponding to its current mode of operation, and
- Hysteresis is implemented in overlay to avoid to frequent change of mode.

Then it should not cause any changes to specifications under responsibility of TSG GERAN.

TSG SA is invited to draft reply to 3GPP2.

Release 98 CRs:

Alignment of location reporting behaviour: TSG GERAN have studied the changes made by TSG RAN and SA WG2 and concluded that to ensure compatibility the changes needs for GERAN to be done for Release 98 as well.

Release 1999:

Issue on Padding for MCS-8 retransmissions" has been resolved.

Correction on CPS field setting for MCS-3 retransmissions of MCS-8 blocks.

- Receiver must accept both interpretations of CPS field as referring to padding in retransmission blocks of MCS-3.

RIM/NACC:

- Constructive proposal for simplifying the format used in the evening session to restructure the CR.
- LS sent to RAN3 and CN4 on RIM routing addressing between GERAN and UTRAN.

- RIM/NACC drafting session to be held before G2#18bis – hosted by Siemens.

MBMS:

Channel coding: Agreement on re-use of existing GPRS/EGPRS coding schemes.

A/Gb mode architecture discussion re-opened:

- To support only p-t-m with NACK channels - performance currently being discussed in G1
- Or to use two types of channel (p-t-m and p-t-p simultaneously in different cells during multicast)

Notification – no additional progress

Cell change issue relates to late arrivals concept (awaiting notification solution).

Streaming: WI (Rel-6) marked as completed.

U-TDOA:

CS domain: Removal of emergency services client type restriction from the U-TDOA location method – SA3 being consulted on the protection of Kc in the Uplink TDOA location method.

PS domain: First papers on “Inclusion of PS functionality for U-TDOA location method” were seen.

PS Conversational:

PS HO Stage 2 TS v0.2.0 presented.

Rapporteur to add signalling flows for one inter-RAT scenario to the TS, together with most text from the identifiers draft CR.

“Packet forwarding” terminology still open.

Working assumption for MS identifier to use during HO procedures:

- The new local P-TMSI is pre-allocated by the T-SGSN but neither this nor the derived TLLI is sent to the MS in the source cell.
- The Target BSS appends the new TLLI to all uplink data sent by the MS in the target cell prior to the RAU, when the MS will be informed of the new P-TMSI and TLLI pair.
- Some kind of handover reference or other temporary identifier may be needed to ensure that the correct MS appears on the dedicated resource.

Discussion paper for next meeting to ensure all aspects have been considered.

To support signalling for PS HO, two enhancements to RLC/MAC are proposed:

- Either introduce segmentation for RLC/MAC control messages on PACCH,
- Or optimise an RLC instance to use user data like procedures.

PS Interruption in DTM:

“DTM enhancements concept paper” has adequately captured requirements and performance of current procedures.

Work started on solutions (5%).

TEI 6:

Proposal for Cell-Selection redirection at connection termination completed – This allow network to send mobile returning to idle mode directly another network layer than the one used for completed connection. e.g. on completion of call on GERAN cell direct the mobile to re-select a UTRAN cell which is prioritised through reselection parameters and thereby avoid multiple Location updates.

Improvement to Delayed Uplink TBF Release.

Service handover CR could not be agreed.

Ciphering in VGCS, an LS to SA3 was drafted indicating that the sending of a 32 bit RAND requires the introduction of a segmentation mechanism on the notification channel – GERAN has indicated its preference for the technical solutions and will continue study.

A number of corrections and clarifications to different parts of the specifications.

Single Antenna Interference Cancellation (SAIC):

- Results of simulations for synchronous networks for CS services converge.
- Results for asynchronous networks show a potential gain.
- Results for 8-PSK interference show less gain for a 8-PSK modulated interferer compared to GMSK modulated interferer!

Work items for Advanced Receiver Performance (ARP) approved and work commenced. Work Plan for completion of ARP in Rel-6 timeframe has been agreed.

SAIC Feasibility Study kept open for additional scenarios.

Testing:

There are still no input on the developing Test Cases (currently 0%) for the following Rel-5 features:

- Alignment of 3G functional split and Iu;
- Wideband telephony services;
- Enhanced Power Control;
- AMR 8 PSK HR.

Testing – GPRS Release 1999:

Work plan for GPRS test cases Release 1999 has been updated.

The R97 GPRS test cases, which have been introduced to 51.010-1 during the Work-Plan life are Release 1999 compliant, have been included in the Work-Plan.

Testing of NC2:

Summary after GERAN #18

- Phase 1 / Step 1: 15 (all) required test cases available;
- Phase 1 / Step 2: 25 (all) required test cases available.

There is no new test cases on NC2 have been identified and this work is being considered as finished.

Testing – PTCRB test cases:

An updated Work Plan for the Alignment of the PTCRB (PCS Type Certification Review Board) RFT's has been created.

General information:

Based on the LS from GCF, WG3 has discussed and agreed to create the Work-Plan on EMR test case development, including:

- Analysis of the test coverage in TS51.010 regarding Packet Enhanced Measurement Reporting (PEMR).
- Analysis of the required test coverage needed for PEMR in order to ensure sufficient test coverage of the feature.
- Development of test cases for PEMR in order to achieve sufficient test coverage.

- LS to GCF and PTCRB reflecting the progress of the work.
- TSG GERAN has created a Work Plan for Extended Uplink test case development.
- Link adaptation during TBF extension.
- TBF reconfigure during TBF extension and resumption.
- Cell Change Notification during extended mode.
- Cell Change Failure during extended mode.
- Change of RLC mode.

The TSG GERAN Chairman thanked himself for giving his report, which was then noted.

8.4.2 Information on Release 1999, Release 4, 5 and 6 status in TSG GERAN

TD SP-040011 Reply LS (from TSG GERAN) on Pending Decision on A Interface Functionality for Early UE handling. This was introduced by the TSG GERAN Chairman and asked TSG SA to finalise and approve TS 23.195 based on the decision taken by TSG GERAN. This had been approved already in this meeting so the request had been fulfilled. The LS was then noted.

The status of TSG GERAN work was included in the Report from TSG GERAN under agenda item 8.4.1.

8.4.3 Information on status and changes to deliverables

There were no specific contributions under this agenda item. The status of TSG GERAN work was included in the Report from TSG GERAN under agenda item 8.4.1.

8.5 Letters to other groups

The following Liaisons were approved at the meeting:

Number	Title	TO	CC
SP-040209	Response to ITU-T from SP-040020 and SP-040026	ITU-T COM 16	-
SP-040218	LS Reply to Request for close cooperation on future NGN Standardisation	ETSI TISPAN, SA WG2	PCG, SA WG1, SA WG3, CN WG1, CN WG3, CN WG4
SP-040219	Reply LS on 2G/3G subscriber distinction and roaming restriction	GSMA IREG	SA WG1
SP-040220	LS on Collaboration between 3GPP and Liberty Alliance Project	PCG/OP	TSG CN, CN WG4
SP-040226	LS to 3GPP2 TSG-C: Preferred Roaming List for 3GPP2/3GPP Multi-mode Terminal	3GPP2 TSG-C	-

8.6 3GPP Work plan

There were no specific contributions under this agenda item.

8.7 Review of Release 1999, Release 4 and Release 5 specification sets

TD SP-040200 Overview of Release 1999 features. This was introduced by A. Sultan, the MCC Work Plan manager and outlined the list of Release 1999 Features as developed by MCC. Delegates were asked to review the document and provide feedback to A. Sultan. The document was then noted.

TD SP-040147 Overview of 3GPP Release 4 (draft). This was introduced by A. Sultan, the MCC Work Plan manager and outlined the list of Rel-4 Features as developed by MCC. Delegates were asked to review the document and provide feedback to A. Sultan. The document was then noted.

TD SP-040221 CRs to lists of specs. These CRs were approved.

TD SP-040058 Specs status list prior to TSGs#23. This was introduced by the MCC Specifications Manager (J. Meredith) and was noted.

TD SP-040059 Status list after TSGs #23. This was not available at the meeting but will be produced with the changes agreed at the meetings. Members were invited to study the document when it is available and provide comments to the Specifications Manager.

8.8 Review of Release 6 status, content and completion

TD SP-040201 3GPP Work Plan. This was provided for information and was noted.

TD SP-040202 3GPP Work Plan Overview. This was presented by A. Sultan, the MCC Work Plan manager and outlined the MCC summary of the status of Features in the 3GPP Work Plan. The document was therefore noted.

Completion Dates:

UID	Feature	FCD
50401	Addition of frequency bands to GSM	X
50130	Seamless support of streaming services in A/Gb mode	X
1800	Rel-6 UICC/USIM enhancements and interworking	X
12006	Enhancement of dialled service for CAMEL	X
50600	Multiple TBF in A/Gb mode	X
1216	Improvements of Radio Interface	X+24
32021	IMS Phase 2	X+24+25
15010	Rel-6 OSA enhancements	X+24+25
9	RAN improvements	X+24+25
1571	Security enhancements	24
2062	Subscription Management	24
50063	Flexible Layer One for GERAN	24
31006	Speech Recognition and Speech Enabled Services	24
~~31006~~	~~Speech Recognition and Speech Enabled Services~~	~~24~~
~~31012~~	~~WLAN-UMTS Interworking~~	~~24~~
34300	Performance characterisation of default Codecs for PS conversational multimedia application	24
35016	Charging Management	24
34023	AMR-WB extension for high audio quality	24
50444	Addition of U-TDOA in the CS domain	24
1365	Support of Push Services	24/25
35010	OAM&P	24/25
33002	Support for subscriber certificates	25
~~2468~~	~~Multiple Input Multiple Output antennas (MIMO)~~	~~25~~
42009	Multimedia Messaging (MMS) enhancements	25
2499	Support of Presence Capability	25
31012	WLAN-UMTS Interworking	25
~~2544~~	~~Multimedia Broadcast and Multicast Service~~	~~25~~
31008	Generic User Profile	25
31018	Network Sharing	25
34022	Packet Switched Streaming Services Rel-6	25
50500	Support of Conversational Services in A/Gb mode via the PS domain	25
50445	Addition of U-TDOA in the PS domain	25
32016	QoS Improvements	25
2544	Multimedia Broadcast and Multicast Service	25/26
2468	Multiple Input Multiple Output antennas (MIMO)	26
32060	Bandwidth and resource savings in CS networks	25?
32045	PS domain and IMS impacts for supporting IMS Emergency calls	28
32023	Location Services enhancements 2	EXT
32063	3GPP Enablers for services like Push to Talk over Cellular (PoC)	EXT
11032	Interoperability and Commonality between IMS using different "IP-connectivity Networks"	~~EXT~~X+NR
31010	Digital Rights Management	EXT
2	Evolutions of the transport in the UTRAN	NR
32062	Interworking aspects and migration scenarios for IPv4 based IMS	NR

	UID	Feature	FCD
		Implementations (Study)	
	42005	Rel-6 MExE enhancements	NR
	50056	Enhanced A/Gb feasibility study	NR
	50041	Uplink TDOA feasibility study	NR
	31015	Priority Service	NR
	~~32016~~	~~QoS Improvements~~	~~NR~~
	31030	Study on Privacy Capability	NR
	51101	Single Antenna Receiver Interference Cancellation (SAIC)	NR
	33018	FS on (U)SIM Security Reuse by Peripheral Devices on Local Interfaces	NR
	50096	Alignment between the test-regimes for GERAN capable MS	NR
	50101	Advanced Receiver Performance	NR
	50109	Reduction of PS service interruption in Dual Transfer Mode	NR
x		CS Video and Voice Service Improvements	?

Questions and Comments:

Slide 4: Testing A-GPS Rel-6 Minimum Performance Requirements: Completion is dependent upon the completion of the base specifications.

Slide 22: Check if CN1 involved. *Supporting companies to write corresponding WID if needed.* The SA WG2 Chairman was asked to verify the status of the LCS Stage 2.

Slide 29: Push Services. *It is not certain that stage 2 TS (or CRs) and stage 3 work is needed, it depends on the decision on NRPCA*. The mechanisms to support Push are already in place so the WI can be considered complete except for some.

Slide 34: Presence: *Codec and Formats - Check supporting companies*. It was commented that this is related for IMS Messaging but not presence. Therefore it should be determined whether and work is still needed on Codec and Formats for Presence. The SA WG4 Chairman agreed to check whether any work is needed for Presence.

Slide 34: Presence: *CN5 work not started for TR on Mapping (see slide on OSA). CN3 aspects also needed but not starte*d. The CN WG5 Chair reported that work could not be done while there was nothing to map to, but now that there is there is no resource to do the work, but this is a non-normative part of the specifications. The CN WG3 Chairman reported that the work that is needed is not large and it should not be a limiting factor.

Slide 40: Digital Rights Management: *How to handle OMA Stage 1 specifications*. It was agreed that they can be simply referenced.

Slide 43: Priority Service: *BB on Priority for Multimedia is 0% complete in the WP. CN: How is SA WG1 going to proceed with it?* The SA WG1 Chairman reported that extra work is needed which will be based on the revised Work Item.

Slide 50: Privacy Capability: *Check for supporting companies to start work on Stage 2*. It was reported that SA WG1 had not identified any new requirements to add to their specifications and so no Stage 2 work is needed.

Slide 58: AMR-WB extension for high audio quality (AMR-WB+): *Supporting Companies to check impacts on CN WG1*. The SA WG4 Chairman confirmed that there is no impact to CN WG1 of this work.

Slide 62: 3GPP Enablers for services like Push to Talk over Cellular (PoC):

> *Check if independent Feature or BB under IMS 2*. It was clarified that this can be considered as an Independent Feature and completion within 2 months.
>
> *Clarify how Stage 1 is to be documented*. It was reported that CRs to 22.228 may be needed.

Time schedule for SA2: June for information and approval (missing info on Stage 1). Dependant on stable input from OMA. *Does this apply to stable stage 2 (i.e. TS and/or CRs) or just to TR?*

No work ongoing on Stage 3 at the moment. Awaiting Stage 2 to be progressed. Not before September 2004.

A. Sultan was thanked for the Presentation and an updated version was provided in TD SP-040223 which was noted.

TD SP-040214 Minutes of the Release 6 Prioritisation breakout session. This was introduced by the breakout session Chairman and was used as a basis for discussions on the proposals provided in TD SP-040210, TD SP-040211, TD SP-040213 and TD SP-040222.

TD SP-040210 On 3GPP Rel-6 Work Prioritisation. This was introduced by TeliaSonera and proposed that TSG SA in the event that some kind (e.g. TD SP-040014) of priority list for the work on Rel-6 is approved it shall also be concluded that such a list shall not be used by WG chairmen when they design an agenda. Such a list shall only be used by WG delegates as a guidance to which areas to write contributions without imposing any restrictions on other areas.

TD SP-040211 On 3GPP Rel-6 Work Prioritisation. This was introduced by Nokia. From the priorities listed in TD SP-040014 and the feedback received in discussions during the TSG SA #23, this is the contributing companies' common understanding of the prioritised Rel6 work items.

TD SP-040213 Release 6 freezing dates. This was introduced by Siemens and proposed September 2004 as freezing date for 3GPP Rel-6. Working groups should work toward that date. Deliberate exceptions shall be granted at SA#25 on status of work on an individual basis.

TD SP-040222 Release 6 freezing dates. This was introduced by Nortel Networks and proposed September 2004 for completion of major technical work for Rel-6 and a review of the appropriateness for freezing Rel-6 made at TSG SA #26.

It was concluded that the Rel-6 content freezing date will be set for September 2004 ~~and explicit exceptions will be granted on a justified case by case basis~~. This decision will be reviewed relative to the progress of the work items. TSG SA noted that the priority list provided in TD SP-040211 as being the list of Rel-6 Work Items that ~~Member~~ Source Companies will focus their efforts on. TD SP-040211 was later updated to change the Source companies in TD SP-040225.

It was agreed that Stage 1 of Release 7 is intended to be Functionally Frozen by June 2005. This decision will be reviewed at TSG SA #24 / TSG SA #25.

8.9 Beyond Release 6 and/or Current work plan (Vision, Phasing, New Technology etc.)

There were no specific contributions under this agenda item.

8.10 Other issues

There were no specific contributions under this agenda item.

9 Project Management

9.1 Review of work programme

There were no specific contributions under this agenda item.

9.2 Working methods

TD SP-040186 CRs to 21.801 to make it "Release-independent" and to create a R99 version. These CRs were approved.

TD SP-040194 New Work Item Description (WID) form. This was introduced by the MCC Specifications Manager (J. Meredith). It was commented that with the potential changes due to the discussions on Release handling, it is likely that the Work Item Template would need to be updated again. It was also suggested that the "AN" should be split into GERAN and UTRAN. It was also suggested that the dependencies on external bodies' work should be added. The addition of IMS was also suggested. Considering the proposed changes and the likelihood of needing to further changing the template due to the Release Handling discussions, it was decided to ask for an updated draft to be sent to the e-mail reflectors of all TSGs for comment and an updated version provided to the next TSG SA meeting.

It was commented that the Release Handling discussions were related to the Work Plan and not the Work Item Description sheets.

9.3 Other issues

There were no specific contributions under this agenda item.

10 Project support

TD SP-040205 Report of MCC activities to TSG SA #23.

11 Postponed issues from earlier in the meeting

There were no specific contributions under this agenda item.

12 Work plan and future meetings

TD SP-040206 Calendar of 3GPP meetings. It was noted that the meetings for March were wrong and should be 4 calendar days long. The Calendar of meetings was then noted.

The current meeting schedule was as follows:

TITLE	HOST	DATES	LOCATION	COUNTRY
3GPPGERAN#19	NA Friends	19-23 April, 2004	TBD	US
3GPPRAN#24	TTA	1-4 June, 2004	TBD	Korea
3GPPT#24	TTA	2-4 June, 2004	TBD	Korea
3GPPCN#24	TTA	2-4 June, 2004	TBD	Korea
3GPPSA#24	TTA	7-10 June, 2004	TBD	Korea
3GPP GERAN#20	EF3	21-25 June, 2004	TBD	Europe
3GPP GERAN#21	NA Friends	23-27 August, 2004	TBD	US
3GPPRAN#25	NA Friends	8-10 September, 2004	Palm Springs	US
3GPPT#25	NA Friends	8-10 September, 2004	Palm Springs	US
3GPPCN#25	NA Friends	8-10 September, 2004	Palm Springs	US
3GPPSA#25	NA Friends	13-16 September, 2004	Palm Springs	US
3GPPRAN#26	EF3	8-10 December, 2004	Athens	Greece
3GPPT#26	EF3	8-10 December, 2004	Athens	Greece
3GPPCN#26	EF3	8-10 December, 2004	Athens	Greece
3GPPSA#26	EF3	13-16 December, 2004	Athens	Greece
3GPPRAN#27		9-11 March 2005	Tokyo	Japan
3GPPT#27		9-11 March 2005	Tokyo	Japan
3GPPCN#27		9-11 March 2005	Tokyo	Japan
3GPPSA#27		14-17 March 2005	Tokyo	Japan

13 Any other business

The Vice Chairman, Mr. Hiroshi Nakamura, announced that he was stepping down from the position due to changes in his work in NTT DoCoMo. He expressed his appreciation for his time as Vice Chairman of TSG SA and the good co-operation he had always received. He indicated that NTT DoCoMo are still fully committed to the work of TSG SA and they would propose a replacement candidate for the forthcoming elections. The TSG SA Chairman thanked Hiroshi-San for his very good work as Vice Chairman, especially for Chairing some difficult ad-hoc Groups and Workshops and wished him all the best in his future work. The TSG SA Chairman will add the election of a replacement Vice Chairman to the next TSG SA Agenda and MCC were asked to ensure the call for candidates is distributed appropriately.

14 Close of meeting

The TSG SA Chairman thanked the delegates for their hard work and co-operation during the meeting, the Meetings Hosts, North American Friends of 3GPP and the Support staff for the excellent facilities provided for the TSG meetings. ~~He then closed the meeting.~~ He again thanked the Vice Chairman, Mr. Hiroshi Nakamura, for his very good work as Vice Chairman and wished him all the best in his future work. He then closed the meeting.